# **ANNUAL PROGRESS REPORT**

(APRIL-2017 TO MARCH-2018)

SUBMITTED TO

ATARI, ICAR,

COLLEGE OF AGRIL. CAMPUS,

ZONE-VIII, PUNE



**SUMITTED BY** 

# KRISHI VIGYAN KENDRA

SAMODA-GANWADA
TA.SIDHPUR, DIST.PATAN (GUJARAT)

# ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2017-18

(1st April 2017 to 31st March 2018)

#### 1. GENERAL INFORMATION ABOUT THE KVK

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

| Address with PIN code                    | Telephone |        | E mail              | Website address & No. |
|--|-----------|--------|---------------------|-----------------------|
|  |           |        |                     | of visitors (hits)    |
| Krishi Vigyan Kendra                     | Office    | FAX    | kvksamoda@yahoo.com |                       |
| Saraswati Gram Vidhyapith Samoda-Ganwada | 02767     | 02767  |                     |                       |
| Ta.Sidhpur, Di. Patan                    |           |        |                     |                       |
| Gujarat, Pin. 384 151                    | 285528    | 285528 |                     |                       |

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

| Address                      | Telephone |        | E mail         | Website address |
|------------------------------|-----------|--------|----------------|-----------------|
|                              | Office    | FAX    |                |                 |
| Saraswati Gram Vidyapeeth,   |           |        |                | -               |
| Samoda-Ganwada               | 02767     | 02767  | kvksamoda@ya   |                 |
| Ta.Sidhpur, Di. Patan        | 285199    | 285528 | <u>hoo.com</u> |                 |
| Gujarat, Pin. 384 151 (N.G.) |           |        |                |                 |

### 1.3. Name of the Senior Scientist and Head with phone & mobile no.

| Name                         | Telephone / Contact |            |                     |  |
|------------------------------|---------------------|------------|---------------------|--|
| Dr. Upesh Kumar              | Office              | Mobile     | Email               |  |
| Senior Scientist and Head    |                     |            |                     |  |
| Krishi Vigyan Kendra         |                     |            |                     |  |
| Samoda-Ganwada               | 02767 285528        | 9425661514 | kvksamoda@yahoo.com |  |
| Ta.Sidhpur, Di.Patan Gujarat |                     |            |                     |  |
| Pincode-384151               |                     |            |                     |  |

### 1.4. Year of sanction: 1993

## 1.5. Staff Position (as on March 31, 2018)

|            |                           |                       |                        | If Perma             | If Temporary, pl.    |                 |  |
|------------|---------------------------|-----------------------|------------------------|----------------------|----------------------|-----------------|--|
| Sl.<br>No. | Sanctioned post           | Name of the incumbent | Discipline             | Current<br>Pay Band  | Current<br>Grade Pay | Date of joining | indicate the<br>consolidated<br>amount paid<br>(Rs./month) |
| 1.         | Senior Scientist and Head | Dr.Upesh kumar        | Pl.<br>Pathology       | PB-4<br>37,400-67000 | 9000                 | 1/10/16         | -  |
| 2.         | Subject Matter Specialist | Shri G.APatel         | Plant Protection       | PB-3<br>15600-39100  | 5400                 | 6/5/1993        | -  |
| 3.         | Subject Matter Specialist | Shri H.P.Patel        | Extension<br>Education | PB-3<br>15600-39100  | 5400                 | 8/5/1993        | -  |
| 4.         | Subject Matter Specialist | Smt. H.B.Patel        | Home Science           | PB-3<br>15600-39100  | 5400                 | 19/8/2002       | -  |
| 5.         | Subject Matter Specialist | Shri S.S. Darji       | Horticul-ture          | PB-3<br>15600-39100  | 5400                 | 2/4/2012        | -  |
| 6.         | Subject Matter Specialist | Shri R.P.Chaudhari    | Agronomy               | PB-3<br>15600-39100  | 5400                 | 16/4/2015       | -  |
| 7.         | Subject Matter Specialist | Shri S.J.Patel        | Animal Science         | PB-3<br>15600-39100  | 5400                 | 01/09/2016      | -  |
| 8.         | Programme Assistant       | Shri D.N.Patel        | -                      | PB-2<br>9300-34800   | 4600                 | 22/2/1996       | -  |
| 9.         | Computer Programmer       | Smt. J.N.Patel        | -                      | PB-2<br>9300-34800   | 4600                 | 27/7/1996       | -  |
| 10.        | Farm Manager              | Shri D.R.Patel        | -                      | PB-2<br>9300-34800   | 4600                 | 01/09/2002      | -  |
| 11.        | Accountant/Superintendent | Shri N.B.Patel        | -                      | PB-2<br>9300-34800   | 4600                 | 25/1/1996       | -  |
| 12.        | Stenographer              | Shri J.K.Patel        | -                      | PB-1<br>5200-20200   | 2400                 | 01/09/2002      | -  |
| 13.        | Driver 1                  | Shri R.A.Patel        | -                      | PB-1<br>5200-20200   | 2000                 | 14/8/2010       | -  |
| 14.        | Supporting staff 1        | Shri R.H.Desai        | -                      | PB-1<br>5200-20200   | 1900                 | 14/5/1993       | -  |
| 15.        | Supporting staff 2        | Shri R.D.Thakor       | -                      | PB-1<br>5200-20200   | 1900                 | 25/1/1996       | -  |

| 16. | Supporting staff 3 | Shri P.V.Senma | PB-1       | 1900 | 25/1/1996 | - |
|-----|--------------------|----------------|------------|------|-----------|---|
|     |                    |                | 5200-20200 |      |           |   |

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

| S. No. | Item                      | Area (ha) |
|--------|---------------------------|-----------|
| 1      | Under Buildings           | 1.00      |
| 2.     | Under Demonstration Units | 2.00      |
| 3.     | Under Crops               | 9.00      |
| 4.     | Orchard/Agro-forestry     | 5.00      |
| 5.     | Others (specify)          | 3.00      |
|        | Total                     | 20.00     |

## 1.7. Infrastructural Development:

## A) Buildings

|                             |                              | Source of | Stage              |                    |                              |               |                    |                        |
|-----------------------------|------------------------------|-----------|--------------------|--------------------|------------------------------|---------------|--------------------|------------------------|
| S. Name of building funding |                              | Complete  |                    | Incomplete         |                              |               |                    |                        |
| No.                         | Name of building             |           | Completion<br>Year | Plinth area (Sq.m) | Expenditure (Rs.)            | Starting year | Plinth area (Sq.m) | Status of construction |
| 1.                          | Administrative<br>Building   | ICAR      | 1993<br>1999-2000  | 694                | 21,87,250=00<br>12,37,848=11 | -             | -                  | -                      |
| 2.                          | Farmers Hostel               | ICAR      | 1333 2000          | 308.82             |                              | -             | -                  | -                      |
| 3.                          | Staff Quarters (9)           | ICAR      | 1996-97            | 731                | 16,89,512=74                 | -             | -                  | -                      |
| 4.                          | Demonstration Units (2)      | RKVY      | 2012-13            | 4,000              | 5,45,000=00                  | -             | -                  | -                      |
| 5                           | Fencing                      | ICAR      | 2001-02            | -                  | 2,99,902=00                  | -             | -                  | -                      |
| 6                           | Rain Water harvesting system | -         | -                  | -                  | -                            | -             | -                  | -                      |
| 7                           | Threshing floor              | ICAR      | 2006-07            | 262.89             | 2,68,039=00                  | -             | -                  | -                      |
| 8                           | Farm Godown                  | ICAR      | 2006-07            | 44.89              |                              | -             | -                  | -                      |
| 9.                          | Implement shed               | ICAR      | 2011-12            | -                  | 285640=00                    | -             | -                  | -                      |

| 10. C | Other | - | - | - | - | - | - | - |
|-------|-------|---|---|---|---|---|---|---|
|       |       |   |   |   |   |   |   |   |

## B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.)  | Total kms. Run | Present status        |
|-----------------|------------------|-------------|----------------|-----------------------|
| Tractor         | 1992-93          | 1,82,910=00 | 1              | Not in proper working |
| Jeep            | 2009-10          | 7,60,236=00 | 174963         | Working               |
| Motorcycle      | 2010-11          | 49,695=00   | 51904          | Working               |

C) Equipments & AV aids

| Name of the equipment / Implements   | Year of purchase | Cost (Rs.)  | Present status |
|--------------------------------------|------------------|-------------|----------------|
| Slide Projector/ O.H.P.              | 1994             | 23,969=00   | Working        |
| Mega Phone                           | 1994             | 2,140=00    | Working        |
| Computer + Printer                   | 2006             | 66,530=00   | Working        |
| Stabilizer                           | 2006             | 1,750=00    | Working        |
| LCD Projector                        | 2007             | 54,326=92   | Working        |
| DVD Player                           | 2007             | 3,846=16    | Working        |
| Laptop                               | 2007             | 39,423=08   | Working        |
| P.A. System                          | 2009             | 28,600=00   | Working        |
| Computer                             | 2009             | 49,500=00   | Working        |
| Generator                            | 2009             | 98,500=00   | Working        |
| Fax machine                          | 2009             | 19,800=00   | Working        |
| Multicrop thresher                   | 2011             | 1,46,000=00 | Working        |
| Rotary weeder                        | 2011             | 51,450=00   | Working        |
| Power sprayer                        | 2011             | 15,855=00   | Working        |
| Seed cum fertilizer drill            | 2011             | 27,250=00   | Working        |
| K-YAN                                | 2013             | 76,650=00   | Working        |
| Oven                                 | 2014             | 7200=00     | Working        |
| Sewing Machine                       | 2014             | 8700=00     | Working        |
| Computer (Dell inspiron 3250) (No.2) | 2017             | 68000=00    | Working        |
| Epson –M-200 printer (No.1)          | 2017             | 12000=00    | Working        |
| AC (No.2)                            | 2017             | 98000=00    | Working        |
| Podium –PD-900                       | 2017             | 40000=00    | Working        |
| Promax audio trally                  | 2017             | 16000=00    | Working        |
| Interactive white board-IR80         | 2017             | 32000=00    | Working        |
| Double sided pinup board             | 2017             | 17050=00    | Working        |

| Folding banner stand                   | 2017 | 2000=00   | Working |
|--|------|-----------|---------|
| Projection screen                      | 2017 | 3200=00   | Working |
| Camera (No.3)                          |      |           | -       |
| Canon DLSR                             | 2017 | 43495=00  |         |
| Sony digital                           | 2017 | 8390=00   | Working |
| Sony Handy cam                         | 2017 | 31990=00  |         |
| Philips 55' digital signage display    | 2017 | 99800=00  | Working |
| Magazin display stand (No.2)           | 2017 | 7640=00   | Working |
| Motorized scroller                     | 2017 | 17300=00  | Working |
| Acrylic charts (57)                    | 2017 | 79800=00  | Working |
| Rolling charts (27)                    | 2017 | 8910=00   | Working |
| Standy with flex banner (No.4)         | 2017 | 3680=00   | Working |
| GPS-Navigator                          | 2017 | 8000=00   | Working |
| Sprayers No.4)                         | 2017 |           |         |
| -Aspee durotekic battery sprayer       | 2017 | 14650=00  |         |
| -Aspee Bolo motorized knapsack sprayer | 2017 |           | Working |
| -Aspee duroteck hitech sprayer         | 2017 |           |         |
| Nursery tools                          | 2017 | 35965=00  | Working |
| Water cooler with purifier             | 2017 | 52100=00  | Working |
| Soil testing lab kit (No.2)            | 2017 | 172000=00 | Working |
| Chaff cutter                           | 2017 | 26964=00  | Working |
| Grinder                                | 2017 | 16065=00  | Working |
| BP monitor                             | 2017 | 1200=00   | Working |
| Weighting scale                        | 2017 | 1000=00   | Working |
| Acrylic specimen box (30)              | 2017 | 10500=00  | Working |
| Agrimedia video film (125)             | 2017 | 13125=00  | Working |
| Double sided pinup board (No.2)        | 2017 | 34100=00  | Working |

## 1.8. Details SAC meeting conducted in the year

| Date           | Name and Designation of Participants   | Salient Recommendations in 2017-18   | Action taken report of last SAC (2016-   |
|----------------|--|--|--|
|                |  |  | 17)  |
| 13-03-<br>2018 | Sri M.L. Patel. Director, S G V P, Samoda-Ganwada, District – Patan Dr K.A.Thakkar, DEE, Directorate of Extension, SDAU, S.K. Nagar Shri Anil kumar Nair, D.D.M., NABARD District - Patan Sri S.S.Patel, DAO, District Agriculture Office, District - Patan Shri M.J.Patel, L.D.M.Distrcit – Patan Shri M.B.Galavadiya, DDH, District Horticulture Office, District – Patan Shri V.K.Modh, Marketing Manager., G.N.F.C. Ltd. Sidhpur Shri K.B.Patel, Marketing Manager, G.S.F.C. Ltd. Sidhpur Shri B.K.Patel, S.M.S. (Agronomy), K.V.K., Kherva, Mahesana Dr. N.S.Patel, Dist.Agril. Husbandary Officer, D.A.H.O., Patan Dr.B.S.Patel, Veterinary Officer Nagvasan, D.A.H.O., Patan Shri V.V. Desai, Assistant Director, G.L.D.C., G.L.D.C., Patan Shri M.S.Patel, Project Director ATMA, District -Patan Shri Mukesh A.Desai, Reliance Foundation, Patan Shri Prakash B.Patel, Progressive Farmer, Madhupura Village Smt. Nitaben B.Patel, Progressive Farm women, Madhupura Village Dr Upesh Kumar, Sr Scientist & Head, KVK, District – Patan | <ul> <li>community fro use of bio fertilizer, bio &amp; botanical pesticide.</li> <li>KVK motivate the farmers for diversify farming.</li> <li>KVK more focus on popularization of STV based nutrient management</li> <li>KVK conduct awareness programme on organic farming</li> <li>KVK more focus on popularization of</li> </ul> | <ul> <li>★ KVK developed need based literature on latest technologies</li> <li>★ KVK conduct Training, FLD, Field Day, Field visit for popularization of technology</li> <li>★ KVK conduct Training, FLD, Field Day, Field visit for popularization of technology</li> <li>★ KVK conduct Training, FLD, Field Day, Field visit for popularization of technology</li> <li>★ KVK conduct training &amp; OFT on promotion vegetable raising on Plug tray</li> <li>★ KVK regularly produce the sampling of fruit plant, seedling of vegetables &amp; its provide to farmers</li> <li>★ KVK regularly promote liquid bio fertilizer through Training, OFT &amp; FLD programme</li> <li>★ KVK conduct CFLD on STV based nutrient management</li> <li>★ KVK promote value addition technologies of fruits &amp; vegetable through training</li> <li>★ KVK conduct more No of training programme on health management of dairy animal</li> <li>★ KVK conduct Training &amp; FLD on Round the year green fodder technology</li> </ul> |

## 2. DETAILS OF DISTRICT

### 2.1. Major farming systems/enterprises (based on the analysis made by the KVK)

| S. No | Farming system/enterprise  |  |  |
|-------|--|--|--|
| 1.    | Crop production – Dairy  |  |  |
| 2.    | Crop Production – Horticulture – Dairy   |  |  |
| 3.    | Poultry Farming.   |  |  |
| 4.    | Cropping system predominant in district  |  |  |
|       | - Castor   |  |  |
|       | - Cotton   |  |  |
|       | - Green gram/ Black gram/ Cluster bean – Wheat/ Mustard/ Chickpea/ Cumin / Funnel – Pearl millet |  |  |

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

| Sl. No. | Agro-climatic Zone              | Characteristics  |  |  |
|---------|---------------------------------|--|--|--|
| 1       | Zone No.4                       | - Average rainfall is 610 mm.  |  |  |
|         | (Patan, Saraswati, Sidhpur and  | - Soil type is loamy, sandy, saline & medium black.                                  |  |  |
|         | Chansama taluka)                | - Main crops- Cotton, Wheat, Castor, Cumin, Bajara & Mustard, Fennel, Chilli, Carrot |  |  |
| 2       | Zone No.8                       | - Average rainfall is 500mm.   |  |  |
|         | (Harij, Sami, Shankheswar,      | - Soil type is loamy, sandy, saline and medium black.                                |  |  |
|         | Radhanpur and Santalpur taluka) | - Main Crops - Rainfed Cotton, Wheat, Gram, Dill seed, Mustard & Cumin.              |  |  |

## b)Topography

| Sr. | Agro ecological               | Soil texture             | Rainfall | Special features               | Principal crops        | Taluka cover       |
|-----|-------------------------------|--------------------------|----------|--------------------------------|------------------------|--------------------|
| No. |                               |                          | mm       |                                |                        |                    |
| 1.  | Alluvial sandy soil with low  | Loamy sand to sandy loam | 500-700  | Low rainfall dry climate       | Castor, Mustard,       | Sidhpur :89.56%    |
|     | rainfall                      |                          |          |                                | Bajra, Cotton,         | Patan :79.9%       |
|     |                               |                          |          |                                | Sorghum                |                    |
| 2.  | Saline soil with low rainfall | Sandy loam saline soil   | 500-700  | Low rainfall, dry climate, and | Cotton, Castor, Bajra, | Chanasma: 78.64%   |
|     |                               |                          |          | absence of vegetative cover    | Pulses                 |                    |
| 3.  | Salt affected soil            | Medium black saline soil | 400-500  | Low rainfall dry climate and   | Bajra, Sorghum,        | Harij : 65.45%     |
|     |                               |                          |          | absence of vegetative cover    | Cumin, Gram, Cotton    | Sami :84.32%       |
|     |                               |                          |          |                                |                        | Radhanpur : 81.54% |
|     |                               |                          |          |                                |                        | Santalpur; 90.98%  |

## 2.3 Soil Types

| S. No | Soil type         | Characteristics  | Area in ha |
|-------|-------------------|--|------------|
| 1.    | Heavy black soil  | - High Water holding capacity  | 30400      |
|       |                   | - Low permeability   |            |
|       |                   | - Water logging condition  |            |
|       |                   | - Fertile soil   |            |
| 2.    | Medium black soil | - Medium WHC   | 334400     |
|       |                   | - Medium permeability  |            |
|       |                   | - Fertile soil   |            |
| 3.    | Loamy soil        | - More retain water and nutrient than sandy soil and low retain water and nutrient | 213220     |
|       |                   | than black soil  |            |
| 4.    | Sandy soil        | - Low WHC  | 165424     |
|       |                   | - High permeability  |            |
| 5.    | Saline soil       | - Salts accumulation on the soil surface   | 109535     |
|       |                   | - Water logging condition  |            |
|       |                   | - Crack formation during   |            |
|       |                   | Summer Season  |            |

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

| S. No | Crop                | Area (ha) | Production (MT.) | Productivity (Qt./ha) |
|-------|---------------------|-----------|------------------|-----------------------|
| 1     | Bajra-Kharif        | 1065      | 577              | 5.42                  |
| 2     | Bajra-Summer        | 5745      | 15190            | 26.44                 |
| 3     | Cotton- Desi        | 18290     | 12157            | 6.64                  |
|       | Hybrid              | 34900     | 31375.1          | 8.99                  |
| 4     | Castor              | 111980    | 180960           | 16.16                 |
| 5     | Mustard             | 29262     | 44420            | 15.18                 |
| 6     | Wheat               | 40180     | 137355           | 34.18                 |
| 7     | Pulses Gram         | 7180      | 3698             | 5.15                  |
|       | Green-gram          | 894       | 407              | 4.55                  |
|       | Black-gram          | 1789      | 850              | 4.75                  |
| 8.    | Cluster bean (Seed) | 42085     | 25335            | 6.02                  |
| 9.    | Moth bean & cowpea  | 321       | 157              | 4.88                  |
| 10.   | Fruit- Lime         | 805       | 8533             | 106                   |
|       | Pomegranate         | 553       | 6138             | 111                   |
|       | Ber                 | 344       | 3619             | 105.20                |

| 11. | Cumin                  | 41177 | 37059 | 9.0   |
|-----|------------------------|-------|-------|-------|
| 12. | Fennel                 | 3339  | 7680  | 23.0  |
| 13. | Dilseed                | 3300  | 4785  | 14.50 |
| 14. | Potato                 | 527   | 11705 | 222.1 |
| 15. | Vegetable-Cluster bean | 683   | 7615  | 111.5 |
| 16. | Cow pea                | 495   | 4960  | 100.2 |

Source: District agriculture department.

## **2.5.** Weather data (2017-18)

| Month        | Dainfall (mm) | Temperature 0 C |         |  |
|--------------|---------------|-----------------|---------|--|
| Month        | Rainfall (mm) | Maximum         | Minimum |  |
| April-17     | 0.0           | 38.50           | 28.41   |  |
| May-17       | 0.0           | 41.18           | 29.78   |  |
| June-17      | 46.0          | 37.44           | 27.56   |  |
| July-17      | 509.0         | 29.59           | 20.86   |  |
| August-17    | 218.0         | 29.50           | 21.69   |  |
| September-17 | 0.0           | 30.05           | 21.01   |  |
| Oct 17       | 0.0           | 28.29           | 18.46   |  |
| Nov 17       | 0.0           | 28.22           | 15.07   |  |
| Dec 17       | 0.0           | 23.78           | 11.72   |  |
| Jan18        | 0.0           | 24.38           | 12.97   |  |
| Feb18        | 0.0           | 27.80           | 16.13   |  |
| March-18     | 0.0           | 33.62           | 19.97   |  |

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

| Category   | Population | Production | Productivity |
|------------|------------|------------|--------------|
| Cattle     |            |            | -            |
| Crossbred  | 123530     | 1104       | 3.68 kg./day |
| Indigenous | 7493       | 2520       | 8.40 kg./day |
| Buffalo    | 363514     | 1350       | 4.50 kg./day |
| Sheep      |            |            |              |
| Crossbred  | 53750      | -          | -            |
| Indigenous | -          | -          | -            |
| Goats      | 102937     | -          | -            |
| Pigs       | 131        | -          | -            |

| Crossbred  | -     | -                | -                 |
|------------|-------|------------------|-------------------|
| Indigenous | -     | -                | -                 |
| Rabbits    | 185   | -                | -                 |
| Poultry    |       |                  |                   |
| Hens       | 26210 | 7207750 egg./yr. | 275 egg./bird/yr. |

| Taluka                          | Name of<br>the Sub<br>division | Name of the<br>Village  | Major crops & enterprises                              | Major problem identified  | Identified thrust area   |
|---------------------------------|--------------------------------|---|--|---|--|
| Sidhpur Patan                   | Patan                          | Biliya, Chandrawati, Madhopura, Lavara, Kuwara Nagwasan Mandlop, Lanva, | Castor Cotton Mustard Wheat Bajra Cumin Fennel Tobacco | -Average productivity is low in major cropLeaf curl infestation in chilli -Low ground water tableSoil productivity status is low -Problematic soil- Saline & Alkaline soil                                      | -Average productivity of major crops is low -Micro irrigation system -Reclamation of problematic soil -Area under fruit & vegetable crop |
| Chansma<br>Saraswati            |                                | Danodarada,<br>Agar,<br>Kimbuwa<br>Jaisalpur                            | Carrot<br>Pomogranate<br>Kagzi lime<br>Chilli          | -Pest & diseases intensity high-para wilt in cotton, termite in wheat, Blight in Cumin, Mealybug in Cotton, Semilooper & prodenia in castor, and citrus canker & dieback in lime -Pink ball worm infestation in | -Scope & Importance of secondary agriculture -Average milk production per animal is low  |
| Sami<br>Shankheshw<br>ar        | Radhanpur                      | Orumana<br>Kathi<br>Gurjarwada  | Cumin<br>Ajwain<br>Gram<br>Guar                        | -Less adoption of horticultural crops -Loss of food grains due to poor knowledge and storage facility   | -Farm mechanization  -Women empowerment through income generation activities -No use of micronutrient in fruits &                        |
| Harij<br>Radhanpur<br>Santalpur | Radl                           | Tuvad   | Castor  Wheat  Dilseed  Desi Cotton                    | -Average milk production per animal is low  | vegetable crop   |

## 2.8. Priority thrust areas:

| Crop/ Enterprise     | Thrust area   | Crop/ Enterprise         | Thrust area   |
|----------------------|---|--------------------------|---|
| Castor               | Integrated Nutrient management                            | Chilli                   | Nursery Management  |
|                      | Micro Irrigation System                                   |                          | Integrated Nutrient Management                              |
|                      | Integrated weed management                                |                          | Micro Irrigation System                                     |
|                      | Integrated pest management                                |                          | Value Addition  |
|                      | Integrated Disease management                             |                          | Production Technology                                       |
|                      |   |                          | Integrated Disease Management                               |
|                      |   |                          | Integrated Pest Management                                  |
| Cotton               | Integrated Nutrient management                            | Pomegranate and Lime     | Plant propogation technique                                 |
|                      | Integrated weed management                                |                          | Training & Pruning  |
|                      | Micro Irrigation System                                   |                          | Rejuvenation of old orchards                                |
|                      | Integrated pest management                                |                          | Micro Nutrient Application                                  |
|                      | Integrated Disease management                             |                          | Micro Irrigation System                                     |
|                      |   |                          | Integrated Disease Management                               |
|                      |   |                          | Integrated Pest Management                                  |
|                      | T   | 0.1177 1.1               | Value Addition  |
| Chickpea             | Integrated Nutrient management                            | Soil Health              | Production of Organic Inputs                                |
|                      | Integrated weed management                                |                          | Soil Fertility Management                                   |
|                      | Micro Irrigation System                                   |                          | Management of problematic soil                              |
|                      | Integrated pest management                                |                          |   |
| Martagl              | Integrated Disease management                             | T in a start             | Deim Managarant   |
| Mustard              | Integrated Nutrient management                            | Live-stock               | Dairy Management  |
|                      | Integrated weed management                                |                          | Feed Management   |
|                      | Micro Irrigation System                                   |                          | Disease Management  |
|                      | Integrated pest management                                |                          | Breeding Management Production of livestock feed and fodder |
|                      | Integrated Disease management                             |                          |   |
| Wheat                | Integrated Nutrient management                            | Fodder Bajra and Sorghum | Animal nutrition management                                 |
| wneat                | Integrated Nutrient management Integrated weed management | Fouder Dajra and Sorgnum | egrated Crop Management                                     |
|                      | Micro Irrigation System                                   |                          | egrated Nutrient Management                                 |
|                      | Integrated pest management                                |                          | lder production   |
|                      | Integrated pest management Integrated Disease management  |                          |   |
| Cumin/ Fennel/Ajwain | Production & management technology                        | Home Science             | Use of solar cooker   |
| Cumin Temes Tywam    | Water management  | Tionic Science           | Fruits & veg. preservation                                  |
|                      | Tracer management   |                          | Traits & 105. proper various                                |

| Integrated Pest & Disease management | Farm women empowerment through income |
|--------------------------------------|---------------------------------------|
| Value addition                       | generation activity                   |
|                                      | Drudgery reduction                    |
|                                      | House hold Food Security by kitchen   |
|                                      | gardening and nutritional gardening   |
|                                      | Income generating activity            |
|                                      | Low cost & high nutrition diet        |
|                                      | Women & child care                    |

## 3. TECHNICAL ACHIEVEMENTS

## 3.1. A. Details of target and achievements of mandatory activities

|         | OFT                              |         |                |                | FLD         |         |                |  |  |
|---------|----------------------------------|---------|----------------|----------------|-------------|---------|----------------|--|--|
|         |                                  | 1       |                | 2              |             |         |                |  |  |
| Nun     | Number of OFTs Number of farmers |         | oer of farmers | Number of FLDs |             | Numl    | per of farmers |  |  |
| Targets | Achievement                      | Targets | Achievement    | Targets        | Achievement | Targets | Achievement    |  |  |
| 11      | 11                               | 95      | 109            |                | 19          | 380     | 562            |  |  |

|         | Training          |         |                        |         | Extension Programmes |         |                   |  |  |  |
|---------|-------------------|---------|------------------------|---------|----------------------|---------|-------------------|--|--|--|
|         |                   | 3       |                        | 4       |                      |         |                   |  |  |  |
| Num     | Number of Courses |         | Number of Participants |         | Number of Programmes |         | r of participants |  |  |  |
| Targets | Achievement       | Targets | Achievement            | Targets | Achievement          | Targets | Achievement       |  |  |  |
| 67      | 67                | 1291    | 1465                   | 21      | 47                   | 2450    | 11246             |  |  |  |

| Seed Prod | uction (Qtl.) | Planting materials (Nos.) |             |  |  |
|-----------|---------------|---------------------------|-------------|--|--|
|           | 5             | 6                         |             |  |  |
| Target    | Achievement   | Target                    | Achievement |  |  |
| 11        | 24.40         | 207750                    | 71364       |  |  |

| Livestock, poultry stra | nins and fingerlings (No.) | Bio-products (Kg) |             |  |  |
|-------------------------|----------------------------|-------------------|-------------|--|--|
|                         | 7                          | 8                 |             |  |  |
| Target                  | Achievement                | Target            | Achievement |  |  |
|                         |                            |                   | 3715        |  |  |

## 3.1. B. Operational areas details during 2017-18

| S.No. | Major crops & enterprises being | Prioritized problems in these crops/ enterprise                                | Extent of area (Ha/No.) affected | Names of Cluster Villages identified for intervention | Intervention (OFT, FLD,<br>Training, extension activity |
|-------|---------------------------------|--|----------------------------------|---|---|
|       | practiced in                    |  | by the problem in                |   | etc.)*  |
|       | cluster villages                |  | the district                     |   |   |
| 1     | Cotton                          | Imbalance use of nutrient  | 11,000 ha                        | Mandlop   | Training, FLD, Field Day,                               |
|       |                                 | Heavy infestation of pest- pink boll worm                                      |                                  |   | Field visit etc   |
|       |                                 | Heavy incidence of disease- Wilt   |                                  |   |   |
| 2     | Black gram                      | Use of old/ local variety  | 1000 ha                          | Orumana & Agar  | Training, FLD, Field Day,                               |
|       |                                 | Imbalance use of nutrient  |                                  |   | Field visit etc   |
|       |                                 | Heavy infestation of pest  |                                  |   |   |
|       |                                 | Heavy incidence of disease   |                                  |   |   |
| 3     | Castor                          | Imbalance use of nutrient  | 75000 ha                         | Madhopura, Madlop &                                   | Training, FLD, Field Day,                               |
|       |                                 | Scarcity of irrigation water   |                                  | Lanva   | Field visit etc   |
|       |                                 | Heavy infestation of pest  |                                  |   |   |
|       | ~                               | Heavy incidence of disease   | 70001                            |   |   |
| 4     | Chickpea                        | Use of old/ local variety  | 5000 ha                          | Kathi & Orumana                                       | Training, FLD, Field Day,                               |
|       |                                 | Imbalance use of nutrient  |                                  |   | Field visit etc   |
|       |                                 | Scarcity of irrigation water   |                                  |   |   |
|       |                                 | Heavy infestation of pest- Heliothis   |                                  |   |   |
|       | 3.6 1                           | Heavy incidence of disease- Wilt   | 200001                           |   | T OFT. EL P. E. 11                                      |
| 5     | Mustard                         | Use of old/ local variety  | 20000 ha                         | Ganwada, Lanva, Lavara,                               | Training, OFT, FLD, Field                               |
|       |                                 | Imbalance use of nutrient  |                                  | Kumwara & Dhanawada                                   | Day, Field visit etc                                    |
|       |                                 | Scarcity of irrigation water   |                                  |   |   |
|       |                                 | Heavy infestation of pest- Aphid   |                                  |   |   |
|       | <b>3371</b> 4                   | Heavy incidence of disease-blight Imbalance use of nutrient                    | 25000 ha                         | Danadanda Asan  | Territorio OFF FLD Field                                |
| 6     | Wheat                           |  | 25000 na                         | Danodarda, Agar                                       | Training, OFT, FLD, Field                               |
|       |                                 | Scarcity of irrigation water   |                                  |   | Day, Field visit etc                                    |
| 7     | Chilli                          | Heavy infestation of pest- termite  Imbalance use of major nutrient& no use of | 75 ha                            | Biliya, Chandrawati &                                 | Training, FLD, Field Day,                               |
| /     | CIIIII                          | micro nutrient   | /3 Ha                            | Madhopura   | Field visit etc   |
|       |                                 | Scarcity of irrigation water   |                                  | Maunopura   | TIGIU VISIL CIC   |
|       |                                 | Heavy infestation of pest- sucking pest  |                                  |   |   |
|       |                                 | Heavy incidence of disease – leaf curl   |                                  |   |   |
|       |                                 | Treavy incluence of disease – leaf cult  |                                  |   |   |

| 8 | Fennel, Ajwain | Use of old/ local variety                     | 25000 ha         | Danodarda, Kathi,  | Training, FLD, Field Day, |
|---|----------------|---|------------------|--------------------|---------------------------|
|   | & Cumin        | Imbalance use of nutrient                     |                  | Mandlop, Jaisalpur | Field visit etc           |
|   |                | Scarcity of irrigation water                  |                  |                    |                           |
|   |                | Heavy incidence of disease-blight             |                  |                    |                           |
| 8 | Milch animal-  | Heavy infestation of endo & ecto parasite     | 675 % animal are | Madhopura, Agar,   | Training, OFT, FLD, Field |
|   | Cow & Buffalo  | No use of by pass fat                         | affected         | Kimbuwa, Orumana   | Day, Field visit etc      |
|   |                | No or improper use of mineral mixture         |                  |                    |                           |
|   |                | Not availability of green fodder in round the |                  |                    |                           |
|   |                | year  |                  |                    |                           |

# 3.2. Technology Assessment and Refinement A1. Abstract on the number of technologies assessed in respect of crops

| Thematic areas                      | Cereals | Oilseeds | Pulses | Commercial<br>Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber<br>Crops | TOTAL |
|-------------------------------------|---------|----------|--------|---------------------|------------|--------|--------|------------------|----------------|-------|
| Integrated Nutrient Management      | -       | -        | -      | 01                  | -          | -      | -      | -                | -              | 01    |
| Varietal Evaluation                 | -       | 01       | -      | -                   | -          | -      | -      | -                | -              | 01    |
| Integrated Pest Management          | 01      | -        | -      | -                   | -          | -      | _      | -                | -              | 01    |
| Integrated Crop Management          | -       | -        | -      | 01                  | 01         | -      | -      | -                | -              | 02    |
| Integrated Disease Management       | -       | -        | -      | -                   | -          | 01     | -      | -                | -              | 01    |
| Resource Conservation<br>Technology | 01      | -        | -      | -                   | -          | -      | -      | -                | -              | 01    |
| Farm Machineries                    | 01      | -        | -      | -                   | -          | -      | -      | -                | -              | 01    |
| Drudgery Reduction                  | -       | 01       | -      | <u>-</u>            | -          | -      | -      | -                | -              | 01    |
| TOTAL                               | 03      | 02       | -      | 02                  | 01         | 01     | -      | -                | -              | 09    |

## A2. Abstract on the number of technologies refined in respect of crops - No

| Thematic areas                 | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|--------------------------------|---------|----------|--------|------------------|------------|--------|--------|------------------|-------------|-------|
| Integrated Nutrient Management |         |          |        |                  |            |        |        |                  |             |       |
| Varietal Evaluation            |         |          |        |                  |            |        |        |                  |             |       |
| Integrated Pest Management     |         |          |        |                  |            |        |        |                  |             |       |
| Storage Technique              |         |          |        |                  |            |        |        |                  |             |       |
| Mushroom cultivation           |         |          |        |                  |            |        |        |                  |             |       |
| Total                          |         |          |        |                  |            |        |        |                  |             |       |

### A3. Abstract on the number of technologies assessed in respect of livestock enterprises

| Thematic areas        | Cattle | Poultry | Piggery | Rabbitry | Fisheries | TOTAL |
|-----------------------|--------|---------|---------|----------|-----------|-------|
| Nutrition Management  | 01     | -       | -       | -        | -         | 01    |
| Disease of Management | 01     | -       | -       | -        | -         | 01    |
| TOTAL                 | 02     | -       | -       | -        | -         | 02    |

### A4. Abstract on the number of technologies refined in respect of livestock enterprises - No

| Thematic areas                | Cattle | Poultry | Piggery | Rabbitry | Fisheries | TOTAL |
|-------------------------------|--------|---------|---------|----------|-----------|-------|
| Evaluation of Breeds          |        |         |         |          |           |       |
| Nutrition Management          |        |         |         |          |           |       |
| Small Scale income generating |        |         |         |          |           |       |
| enterprises                   |        |         |         |          |           |       |
| TOTAL                         |        |         |         |          |           |       |

### B. Achievements on technologies Assessed and Refined

### **B.1.** Technologies Assessed under various Crops

| Thematic areas                    | Сгор      | Name of the technology assessed  |    | of | Area in ha (Per trail covering all the Technologic al Options) |
|-----------------------------------|-----------|--|----|----|--|
| Integrated Nutrient<br>Management |           | Fertilizer Dose: 240kg. N2 + 40kg P2O5 per ha. + Three sprays of 3% KNO3 at flowering stage, Ball formation stage & Ball development stage | 10 | 10 | 2.4  |
| Drudgery<br>Reduction             | Groundnut | Weeding in groundnut through twin Wheel hoe  | 10 | 10 | 2.5  |
| Resource                          | Wheat     | Soil conditioner (Pusa Hydrogel) @ 2.5 kg./ha. as basal dose   | 10 | 10 | 4.0  |

| Conservation                     |                    |   |    |    | ,    |
|----------------------------------|--------------------|---|----|----|------|
| Technology                       |                    |   |    |    |      |
| Farm Machineries                 | Wheat              | Line sowing method through seed cum fertilizer drill with recommended seed rate-<br>125 kg./ha.   | 10 | 10 | 2.4  |
| Integrated Pest<br>Management    | Wheat              | T2-Seed treatment by Fipronil 5SC @ 600ml./5 lit. water/100kg seed before 8hrs of sowing and soil treatment by Fipronil 5SC @ 1.6 lit./ha. with 4 <sup>th</sup> irrigation                          | 10 | 10 | 2.5  |
| Integrated Crop Management       | Mustard+ Lucerne   | Mixed of mustard with Lucerne (Mustard seed – 3.5 Kg + Lucerne – 5 Kg)  | 10 | 10 | 2.4  |
| Integrated Crop Management       | Cumin + Ajwain     | Intercropping – Cumin + Ajwain (4:1)  | 5  | 5  | 1.0  |
| Integrated Crop Management       | Chilli-water melon | cropping system –Chilli-water melon   | 4  | 4  | 1.0  |
| Integrated Disease<br>Management | Lime               | Spraying of Fojetile 80% WD @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (2 sprays in 12-15 days interval) for management of gummosis disease management | 10 | 10 | -    |
|                                  |                    | Total   | 79 | 79 | 18.2 |

## **B.2.** Technologies Refined under various Crops - No

| Thematic areas                 | Crop | Name of the technology assessed | No. of trials | Number of farmers | Area in ha (Per trail covering all the Technological Options) |
|--------------------------------|------|---------------------------------|---------------|-------------------|---|
| Integrated Nutrient Management |      |                                 |               |                   |   |
| Varietal Evaluation            |      |                                 |               |                   |   |
| Integrated Pest Management     |      |                                 |               |                   |   |
| Total                          |      |                                 |               |                   |   |

## **B.3.** Technologies assessed under Livestock and other enterprises

| Thematic areas       | Name of the livestock enterprise | Name of the technology assessed                                |            | No. of trials | No. of farmers |
|----------------------|----------------------------------|--|------------|---------------|----------------|
| Nutrition management | Cross breed cow                  | Bypass fats (100 gm/ day/ animal) in diets of cross breed cows |            | 10            | 10             |
| Disease management   | Indigenous breed - Kankrej       | Ivermectin @ 1 ml/50kg. body weight for the management of      | internal & | 20            | 20             |
|                      |                                  | external parasite  |            |               |                |
|                      |                                  | Total  |            | 30            | 30             |

## **B.4.** Technologies Refined under Livestock and other enterprises - No

| Thematic areas       | Name of the livestock enterprise | Name of the<br>technology<br>assessed | No. of trials | No. of farmers |
|----------------------|----------------------------------|---------------------------------------|---------------|----------------|
| Evaluation of breeds |                                  |                                       |               |                |
| Nutrition management |                                  |                                       |               |                |
| Total                |                                  |                                       |               |                |

#### C1.Results of Technologies Assessed

#### **Results of On Farm Trial**

#### **OFT-1** (Last year – 2016-17)

| Crop/<br>enterpri<br>se | Farming situation | Problem<br>definition   | Title of OFT  | No.<br>of<br>trials | Technology Assessed   | Parame<br>ters of<br>assessm<br>ent          | Data on the parameter    | Results of assessment                          | Feedback from the farmer   | Any<br>refinem<br>ent<br>needed | Justification<br>for<br>refinement |
|-------------------------|-------------------|---|---|---------------------|---|--|--------------------------|--|--|---------------------------------|------------------------------------|
| 1                       | 2                 | 3   | 4   | 5                   | 6   | 7  | 8                        | 9  | 10   | 11                              | 12                                 |
| Lime                    | Irrigate<br>d     | Low fruit<br>yield of lime<br>due to heavy<br>incidence of<br>Gummosis<br>disease | Assessment of<br>Fojetile 80%<br>WD fungicide<br>for the<br>management of<br>Gummosis<br>diseases in lime | 10                  | Spraying of Fojetile 80% WD @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (2 sprays in 12-15 days interval) for management of gummosis disease management | Dise<br>ase<br>incid<br>ence<br>(%)<br>Yield | T1-<br>32.1%<br>T2- 8.2% | T1-<br>132.40<br>q/ha<br>T2-<br>143.70<br>q/ha | Farmers are seen in technology reduce the disease incidence 74.46% resulted enhance the yield is 8.53% | -                               | -                                  |

#### Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year) | Net Return (Profit) in Rs. /<br>unit | BC Ratio |
|---|----------------------|------------|---|--------------------------------------|----------|
| 13                                      | 14                   | 15         | 16  | 17                                   | 18       |
| Technology option 1 (Farmer's practice) |                      | 132.40     | Qtl/ha  | 219090                               | 4.06     |
| Technology option 2                     | SDAU, S K Nagar      | 143.70     | Qtl/ha  | 239550                               | 4.13     |

- 1 **Title of Technology Assessed** Assessment of Fosetyl 80% WDG fungicide for the management of Gummosis diseases in lime
- 2 **Problem Definition -** Low fruit yield of lime due to heavy incidence of Gummosis disease
- Details of technologies selected for assessment- Spraying of Fojetile 80% WD @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (2 sprays in 12-15 days interval) for management of gummosis disease management
- 4 **Source of technology-** SDAU, S K Nagar
- 5 Production system and thematic area- Integrated Disease Management
- 6 Performance of the Technology with performance indicators- Disease Incidence (%) T1- 32.1, T2- 8.2 Yield (Qtl/ha)- T1- 132.40, T2-143.70
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are seen in technology reduce the disease incidence 74.46% resulted enhance the yield is 8.53%
- **Final recommendation for micro level situation** Technology of disease management was found effective over farmers practice & recommendation after compilation of third year data
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

| Crop/<br>enterpri<br>se | Farming situation | Problem<br>definition                                      | Title of OFT                                   | No.<br>of<br>trials | Technology Assessed  | Parameter<br>s of<br>assessmen<br>t | Data on the parameter | Results of assessment                | Feedback from<br>the farmer  | Any<br>refineme<br>nt<br>needed | Justificatio<br>n for<br>refinement |
|-------------------------|-------------------|--|--|---------------------|--|-------------------------------------|-----------------------|--------------------------------------|--|---------------------------------|-------------------------------------|
| 1                       | 2                 | 3  | 4  | 5                   | 6  | 7                                   | 8                     | 9                                    | 10   | 11                              | 12                                  |
| Cotto                   | Irrigate<br>d     | Low yield Bt cotton due to imbalance use of plant nutrient | Assessment of nutrient management in Bt cotton | 10                  | 240 kg N + 40 kg P per<br>ha. + Three sprays of<br>3% KNO3 at flowering,<br>Ball formation & Ball<br>development stage | Yield                               | -                     | T1- 25.2<br>q/ha<br>T2- 29.7<br>q/ha | Farmers are seen good growth of plant, more no of boll resulted enhance the productivity | -                               | -                                   |

#### Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / ha | BC Ratio |
|---|----------------------|------------|--|------------------------------------|----------|
| 13                                      | 14                   | 15         | 16   | 17                                 | 18       |
| Technology option 1 (Farmer's practice) | -                    | 25.2       | Qtl/ha   | 72202                              | 3.1      |
| Technology option 2                     | SDAU, S K Nagar      | 29.7       | Qtl/ha   | 89400                              | 3.4      |

- 1 **Title of Technology Assessed** Assessment of RDF along with foliar spray of 3 % KNo3 in Bt cotton
- 2 **Problem Definition -** Low yield Bt cotton due to imbalance use of plant nutrient
- 3 **Details of technologies selected for assessment-** 240 kg N + 40 kg P per ha. + Three sprays of 3% KNO3 at flowering, Ball formation & Ball development stage
- 4 **Source of technology-** SDAU, S K Nagar
- 5 Production system and thematic area- Integrated Nutrient Management
- 6 Performance of the Technology with performance indicators- Yield (Qtl/ha)- T1- 25.2, T2-29.7
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are seen good growth of plant, more no of boll resulted enhance the productivity
- **Final recommendation for micro level situation** Technology of nutrient management was found effective over farmers practice & recommendation after compilation of next year data
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

| Crop/<br>enterpri<br>se | Farming situation | Problem<br>definition   | Title of OFT  | No.<br>of<br>trials | Technology Assessed                            | Parameter<br>s of<br>assessmen<br>t                            | Data on the parameter | Results of assessment                | Feedback from the farmer  | Any<br>refineme<br>nt<br>needed | Justific<br>ation<br>for<br>refinem<br>ent |
|-------------------------|-------------------|---|---|---------------------|--|--|-----------------------|--------------------------------------|---|---------------------------------|--|
| 1                       | 2                 | 3   | 4   | 5                   | 6  | 7  | 8                     | 9                                    | 10  | 11                              | 12   |
| Grou<br>ndnut           | Rainfe<br>d       | Low working efficiency and high work load of farm women during weeding in groundnut | Assessment of drudgery reduction of farm women by using improved wheel hoe for weeding in groundnut | 10                  | Weeding in groundnut<br>through twin Wheel hoe | Weedin<br>g<br>efficien<br>cy (ha/<br>day/<br>labour)<br>Yield | T1- 0.05<br>ha        | T1- 16.5<br>q/ha<br>T2- 17.2<br>q/ha | Farm women are seen under technology reduce the drudgery resulted farm women are regularly work | -                               | -  |

#### Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / ha | BC Ratio |
|---|----------------------|------------|--|------------------------------------|----------|
| 13                                      | 14                   | 15         | 16   | 17                                 | 18       |
| Technology option 1 (Farmer's practice) | -                    | 16.5       | Qtl/ha   | 35500                              | 2.92     |
| Technology option 2                     | SDAU, S K Nagar      | 17.2       | Qtl/ha   | 41300                              | 3.66     |

- 1 Title of Technology Assessed Assessment of drudgery reduction of farm women by using improved wheel hoe for weeding in groundnut
- 2 **Problem Definition -** Low working efficiency and high work load of farm women during weeding in groundnut
- 3 Details of technologies selected for assessment- Weeding in groundnut through twin Wheel hoe
- 4 Source of technology- SDAU, S K Nagar
- 5 Production system and thematic area- Farm Machinery
- 6 Performance of the Technology with performance indicators- Yield (Qtl/ha)- T1- 16.5, T2-17.2
- 7. **Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques -** Farm women are seen under technology reduce the drudgery resulted farm women are regularly work
- **Final recommendation for micro level situation** Technology of weed management in groundnut by twin wheel hoe was found effective over farmers practice & recommendation after compilation of next year data
- 9 Constraints identified and feedback for research- No any Constraints

10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

OFT-4

| Crop/<br>enterpri<br>se | Farmin<br>g<br>situatio<br>n | Problem<br>definition   | Title of OFT  | No.<br>of<br>trials | Technology Assessed  | Parameter<br>s of<br>assessmen<br>t               | Data on the parameter | Results of assessme nt                     | Feedback from<br>the farmer  | Any<br>refinement<br>needed | Justificati<br>on for<br>refinemen<br>t |
|-------------------------|------------------------------|---|---|---------------------|--|---|-----------------------|--|--|-----------------------------|---|
| 1                       | 2                            | 3   | 4   | 5                   | 6  | 7   | 8                     | 9  | 10   | 11                          | 12                                      |
| Whe at                  | Semi<br>irriga<br>te         | Low yield<br>wheat due to<br>moisture<br>stress<br>condition at<br>critical stage<br>in Wheat | Assessment of soil moisture conservation technologies (Pusa Hydrogel) in wheat crop | 10                  | Soil conditioner (Pusa<br>Hydrogel) @ 2.5 kg./ha.<br>as basal dose | No of<br>effectiv<br>e tillers/<br>plant<br>Yield | T1- 3.65              | T1-<br>29.6<br>q/ha<br>T2-<br>34.2<br>q/ha | Farmers are seen good growth of plant, more no of effective tillers/ plant resulted enhance the productivity | -                           | -                                       |

#### Contd..

| Technology Assessed                     | Source of<br>Technology | Production | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year) | Net Return (Profit) in<br>Rs. / ha | BC Ratio |
|---|-------------------------|------------|---|------------------------------------|----------|
| 13                                      | 14                      | 15         | 16  | 17                                 | 18       |
| Technology option 1 (Farmer's practice) | -                       | 29.6       | Qtl/ha  | 23490                              | 1.83     |
| Technology option 2                     | SDAU, S K Nagar         | 34.2       | Qtl/ha  | 28010                              | 1.88     |

- 1 **Title of Technology Assessed** Assessment of soil moisture conservation technology- Pusa Hydrogel in wheat crop
- 2 **Problem Definition -** Low yield wheat due to moisture stress condition at critical stage in Wheat
- 3 **Details of technologies selected for assessment-** Soil conditioner (Pusa Hydrogel) @ 2.5 kg./ha. as basal dose
- 4 **Source of technology-** IARI, New Delhi
- 5 **Production system and thematic area-** Resource Conservation
- 6 Performance of the Technology with performance indicators- No of effective tillers/ plant- T1- 3.65, T2-4.18 Yield (Qtl/ha)- T1- 29.6, T2-34.2
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are seen good growth of plant, more no of effective tillers/ plant resulted enhance the productivity
- **8** Final recommendation for micro level situation Technology of soil moisture conservation Pusa Hydrogel was at par with farmers practice
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are not agree for future adoption

| Crop/<br>enterpri<br>se | Farmi<br>ng<br>situati<br>on | Problem<br>definition  | Title of OFT                         | No.<br>of<br>trials | Technology Assessed   | Parameter<br>s of<br>assessmen<br>t                           | Data on the parameter            | Results of assessment       | Feedback from the farmer   | Any<br>refinement<br>needed | Justifi<br>cation<br>for<br>refine<br>ment |
|-------------------------|------------------------------|--|--------------------------------------|---------------------|---|---|----------------------------------|-----------------------------|--|-----------------------------|--|
| 1                       | 2                            | 3  | 4                                    | 5                   | 6   | 7   | 8                                | 9                           | 10   | 11                          | 12   |
| Whe at                  | Irri<br>gate<br>d            | Low yield of<br>wheat due to<br>broad casting<br>of seed & use<br>of high seed<br>rate<br>(160Kh/ha) | Assessment of sowing method in wheat | 10                  | Line sowing method<br>through seed cum<br>fertilizer drill with<br>recommended seed rate-<br>125 kg./ha | No of<br>effectiv<br>e tillers/<br>plant<br>Yield<br>(qtl/ha) | T1- 3.86<br>No<br>T1- 4.25<br>No | T1- 35.8 q/ha T2- 40.3 q/ha | Farmers are seen good growth of plant, more no of effective tillers/ plant resulted enhance the productivity | -                           | -  |

#### Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / ha | BC Ratio |
|---|----------------------|------------|--|------------------------------------|----------|
| 13                                      | 14                   | 15         | 16   | 17                                 | 18       |
| Technology option 1 (Farmer's practice) | -                    | 35.8       | Qtl/ha   | 33280                              | 2.1      |
| Technology option 2                     | SDAU, S K Nagar      | 40.3       | Qtl/ha   | 40295                              | 2.3      |

- 1 **Title of Technology Assessed** Assessment of sowing method in wheat
- 2 **Problem Definition -** Low yield of wheat due to broad casting of seed & use of high seed rate (160Kh/ha)
- 3 Details of technologies selected for assessment- Line sowing method through seed cum fertilizer drill with recommended seed rate-125 kg./ha
- 4 **Source of technology-** SDAU, S K Nagar
- 5 **Production system and thematic area-** Farm Machinery
- 6 Performance of the Technology with performance indicators- No of effective tillers/ plant- T1- 3.86, T2-4.25 Yield (Qtl/ha)- T1- 35.8, T2-40.3
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are seen good growth of plant, more no of effective tillers/ plant resulted enhance the productivity
- **Final recommendation for micro level situation** Technology of sowing of seed through seed cum ferti drill machine was found effective over farmers practice & recommendation after compilation of next year data
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

| Crop/<br>enterpri<br>se | Farming situation     | Problem<br>definition   | Title of OFT  | No.<br>of<br>trials | Technology Assessed   | Parameter<br>s of<br>assessmen<br>t                 | Data on the parameter      | Results of assessment                | Feedback from the farmer   | Any<br>refine<br>ment<br>neede<br>d | Justific<br>ation<br>for<br>refinem<br>ent |
|-------------------------|-----------------------|---|---|---------------------|---|---|----------------------------|--------------------------------------|--|-------------------------------------|--|
| 1                       | 2                     | 3   | 4   | 5                   | 6   | 7   | 8                          | 9                                    | 10   | 11                                  | 12   |
| Whe at                  | Semi<br>Irrigate<br>d | Low yield<br>of wheat<br>due to<br>heavy<br>infestation<br>of termite | Assessment of IPM module for the management of termite in wheat | 10                  | Seed treatment by Fipronil 5SC @ 600ml./5 lit. water/100kg seed before 8hrs of sowing and soil treatment by Fipronil 5SC @ 1.6 lit./ha. with 4 <sup>th</sup> irrigation | Termite<br>infestati<br>on (%)<br>Yield<br>(qtl/ha) | T1- 11.3<br>%<br>T2- 5.4 % | T1- 33.7<br>q/ha<br>T2- 40.1<br>q/ha | Farmers are seen negligible infestation of termite under assessed technology resulted enhance the productivity | -                                   | -  |

Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / ha | BC Ratio |  |
|---|----------------------|------------|--|------------------------------------|----------|--|
| 13                                      | 14                   | 15         | 16   | 17                                 | 18       |  |
| Technology option 1 (Farmer's practice) | -                    | 33.7       | Qtl/ha   | 36075                              | 2.57     |  |
| Technology option 2                     | SDAU, S K Nagar      | 40.1       | Qtl/ha   | 45775                              | 2.88     |  |

#### **Details of On Farm Trial**

- 1 **Title of Technology Assessed** Assessment of IPM module for the management of termite in wheat
- 2 **Problem Definition -** Low yield of wheat due to heavy infestation of termite
- Details of technologies selected for assessment- Seed treatment by Fipronil 5SC @ 600ml./5 lit. water/100kg seed before 8hrs of sowing and soil treatment by Fipronil 5SC @ 1.6 lit./ha. with 4<sup>th</sup> irrigation
- 4 **Source of technology-** SDAU, S K Nagar
- 5 Production system and thematic area- IPM
- 6 Performance of the Technology with performance indicators-

**Termite infestation (%)** - T1-11.3,

T2-5.4

Yield (Qtl/ha)-

T1-33.7

T2-40.1

- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are seen negligible infestation of termite under assessed technology resulted enhance the productivity
- **Final recommendation for micro level situation** Technology of termite management was found effective over farmers practice & recommendation after compilation of next year data
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

| Crop/<br>enterpri<br>se      | Farming situation | Problem<br>definition  | Title of OFT   | No.<br>of<br>trials | Technology Assessed   | Parameter<br>s of<br>assessmen<br>t           | Data on the parameter | Results of assessment | Feedback<br>from the<br>farmer | Any<br>refinement<br>needed | Justification<br>for<br>refinement |
|------------------------------|-------------------|--|--|---------------------|---|---|-----------------------|-----------------------|--------------------------------|-----------------------------|------------------------------------|
| 1                            | 2                 | 3  | 4  | 5                   | 6   | 7   | 8                     | 9                     | 10                             | 11                          | 12                                 |
| Must<br>ard +<br>Luce<br>rne | Irrigate<br>d     | Low net profit in existing cropping systemmustard grown as a sole crop | Assessment of mixed cropping of mustard with Lucerne | 10                  | Mixed of mustard with<br>Lucerne (Mustard seed –<br>3.5 Kg + Lucerne – 5<br>Kg) | Yield<br>(qtl/ha)<br>Net<br>Income<br>(Rs/Ha) | Ro                    | esult awaited         |                                | -                           | -                                  |

#### Contd..

| Technology Assessed                     | Source of Technology | Production     | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / ha | BC Ratio |
|---|----------------------|----------------|--|------------------------------------|----------|
| 13                                      | 14                   | 15             | 16   | 17                                 | 18       |
| Technology option 1 (Farmer's practice) | -                    |                | Result awaited   |                                    |          |
| Technology option 2                     | SDAU, S K Nagar      | Result awaited |  |                                    |          |

- 1 **Title of Technology Assessed** Assessment of mixed cropping of mustard with Lucerne
- 2 **Problem Definition** Low net profit in existing cropping system- mustard grown as a sole crop
- 3 **Details of technologies selected for assessment-** Mixed of mustard with Lucerne (Mustard seed 3.5 Kg + Lucerne 5 Kg)
- 4 **Source of technology-** SDAU, S K Nagar
- 5 **Production system and thematic area-** Cropping System
- 6 Performance of the Technology with performance indicators- Yield (qtl/ha) & Net Income (Rs/Ha) Result awaited
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Result awaited
- **8** Final recommendation for micro level situation Result awaited
- 9 Constraints identified and feedback for research- Result awaited
- 10 Process of farmers participation and their reaction- Result awaited

| Crop/<br>enterpri<br>se | Farming situation | Problem<br>definition  | Title of OFT   | No.<br>of<br>trials | Technology Assessed                     | Parameter<br>s of<br>assessmen<br>t | Data on the parameter | Results of assessment  | Feedback from the farmer  | Any<br>refinem<br>ent<br>needed | Justifi<br>cation<br>for<br>refine<br>ment |
|-------------------------|-------------------|--|--|---------------------|---|-------------------------------------|-----------------------|--|---|---------------------------------|--|
| 1                       | 2                 | 3  | 4  | 5                   | 6                                       | 7                                   | 8                     | 9  | 10  | 11                              | 12   |
| Cumi<br>n               | Irrigate<br>d     | Low net<br>profit in<br>exsting<br>cropping<br>system -<br>sole crop<br>of cumin | Assessment of Intercropping of cumin + Ajwain for enhancing the net profit | 05                  | Intercropping – Cumin +<br>Ajwain (4:1) | Yield                               | -                     | T1(Cumin )- 9.14 q/ha  T2- Cumin- 9.06 q/ha Ajwain – 2.96 q/ha | Farmers are observed one more crop (Ajawain) are taken without effecting the main crop (Cumin) resulted enhance the profitability | -                               | -  |

#### Contd..

| Technology Assessed                     | Source of Technology | Production                   | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / ha | BC Ratio |
|---|----------------------|------------------------------|--|------------------------------------|----------|
| 13                                      | 14                   | 15                           | 16   | 17                                 | 18       |
| Technology option 1 (Farmer's practice) | -                    | 9.14                         | Qtl/ha   | 88930                              | 3.58     |
| Technology option 2                     | SDAU, S K Nagar      | Cumin- 9.06<br>Ajwain – 2.96 | Qtl/ha   | 100450                             | 3.63     |

- Title of Technology Assessed Assessment of Intercropping of cumin + Ajwain for enhancing the net profit
- 2 **Problem Definition -** Low net profit in exsting cropping system sole crop of cumin
- 3 **Details of technologies selected for assessment-** T2-Intercropping Cumin + Ajwain (4:1)
- 4 **Source of technology-** SDAU, S K Nagar
- 5 **Production system and thematic area-** Cropping system
- 6 **Performance of the Technology with performance indicators-** Yield (Qtl/ha)- T1- (Cumin) 9.14, T2- Cumin- 9.06 & Ajwain 2.96
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are observed one more crop (Ajawain) are taken without effecting the main crop (Cumin) resulted enhance the profitability
- **Final recommendation for micro level situation** Technology of Intercropping of cumin + Ajwain was found effective over farmers practice & recommendation after compilation of next year data
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

| Crop/<br>enterpri<br>se | Farming situation | Problem<br>definition  | Title of OFT   | No.<br>of<br>trials | Technology Assessed | Parameter<br>s of<br>assessmen<br>t | Data on the parameter | Results of assessment | Feedback<br>from the<br>farmer | Any<br>refinement<br>needed | Justification<br>for<br>refinement |
|-------------------------|-------------------|--|--|---------------------|---------------------|-------------------------------------|-----------------------|-----------------------|--------------------------------|-----------------------------|------------------------------------|
| 1                       | 2                 | 3  | 4  | 5                   | 6                   | 7                                   | 8                     | 9                     | 10                             | 11                          | 12                                 |
| Chilli - Wate r melo n  | Irrigate<br>d     | Low profit of<br>present<br>cropping<br>system –<br>Chilli –<br>Fallow | Assessment of cropping system – Chilli – Cucurbit fruit for enhancing net profit | 04                  | Chilli-Water melon  | Yield                               | R                     | esult awaited         |                                | -                           | -                                  |

#### Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / ha | BC Ratio |
|---|----------------------|------------|--|------------------------------------|----------|
| 13                                      | 14                   | 15         | 16   | 17                                 | 18       |
| Technology option 1 (Farmer's practice) | -                    |            | Result awaited   |                                    |          |
| Technology option 2                     | SDAU, S K Nagar      |            |  |                                    |          |

- 1 **Title of Technology Assessed** Assessment of cropping system Chilli Cucurbit fruit for enhancing net profit
- 2 **Problem Definition -** Low profit of present cropping system Chilli Fallow
- 3 **Details of technologies selected for assessment-** Chilli-Water melon
- 4 **Source of technology-** SDAU, S K Nagar
- 5 Production system and thematic area- ICM
- 6 Performance of the Technology with performance indicators- Yield (Qtl/ha)- Result awaited
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Result awaited
- **8** Final recommendation for micro level situation Result awaited
- 9 Constraints identified and feedback for research- Result awaited
- 10 Process of farmers participation and their reaction- Result awaited

| Crop/<br>enterpri<br>se | Farming situation | Problem<br>definition   | Title of OFT  | No.<br>of<br>trials | Technology Assessed  | Parameter<br>s of<br>assessmen<br>t               | Data on the parameter | Results of assessment | Feedback<br>from the<br>farmer | Any<br>refinement<br>needed | Justification<br>for<br>refinement |
|-------------------------|-------------------|---|---|---------------------|--|---|-----------------------|-----------------------|--------------------------------|-----------------------------|------------------------------------|
| 1                       | 2                 | 3   | 4   | 5                   | 6  | 7   | 8                     | 9                     | 10                             | 11                          | 12                                 |
| Lime                    | Irrigate<br>d     | Low fruit<br>yield of lime<br>due to heavy<br>incidence of<br>Gummosis<br>disease | Assessment of<br>Fojetile 80%<br>WD fungicide<br>for the<br>management of<br>Gummosis<br>diseases in lime | 10                  | Spraying of Fojetile<br>80% WD @ 20gm./15<br>lit water immediately<br>after the cutting of dry /<br>disease twigs of the<br>plants (2 sprays in 12-15<br>days interval) for<br>management of<br>gummosis disease<br>management | Disease<br>incidenc<br>e (%)<br>Yield<br>(qtl/ha) | Results<br>awaited    |                       |                                | -                           | -                                  |

#### Contd..

| Technology Assessed           | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|------------|--|--------------------------------------|----------|
| 13                            | 14                   | 15         | 16   | 17                                   | 18       |
| Technology option 1 (Farmer's | -                    |            |  |                                      |          |
| practice)                     |                      |            | Results awaited  |                                      |          |
| Technology option 2           | SDAU, S K Nagar      |            |  |                                      |          |

- Title of Technology Assessed Assessment of Fosetyl 80% WDG fungicide for the management of Gummosis diseases in lime
- 2 **Problem Definition -** Low fruit yield of lime due to heavy incidence of Gummosis disease
- 3 **Details of technologies selected for assessment-** Spraying of Fojetile 80% WD @ 20gm./15 lit water immediately after the cutting of dry / disease twigs of the plants (2 sprays in 12-15 days interval) for management of gummosis disease management
- 4 **Source of technology-** SDAU, S K Nagar
- 5 Production system and thematic area- Integrated Disease Management
- 6 Performance of the Technology with performance indicators- Disease Incidence (%) Result awaited Yield (Qtl/ha)- Result awated
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Result awaited
- **8** Final recommendation for micro level situation Result awaited
- 9 Constraints identified and feedback for research- Result awaited
- 10 Process of farmers participation and their reaction-Result awaited

| Crop/<br>enterpri<br>se | Farming situation | Problem<br>definition                                     | Title of OFT   | No.<br>of<br>trials | Technology Assessed   | Parameter<br>s of<br>assessmen<br>t            | Data on the parameter | Results of assessment                 | Feedback from the farmer  | Any<br>refine<br>ment<br>neede<br>d | Justif icatio n for refine ment |
|-------------------------|-------------------|---|--|---------------------|---|--|-----------------------|---------------------------------------|---|-------------------------------------|---------------------------------|
| 1                       | 2                 | 3   | 4  | 5                   | 6   | 7  | 8                     | 9                                     | 10  | 11                                  | 12                              |
| Cross<br>breed<br>cow   | -                 | Low milk<br>yield due to<br>negative<br>energy<br>balance | Assessment of<br>bypass fat<br>(rumen<br>protected fat)<br>in diets of cross<br>breed cows | 10                  | Use of bypass fats (100 gm/ day/ animal) in diets of cross breed cows | Milk<br>yield<br>(Lit./da<br>y for 3<br>month) | -                     | T1- 9.34<br>l/da<br>T2- 9.71<br>l/day | Farmers are seen under the technology Use of bypass fat to enhance milk yield as well as fat % in milk resulted enhance the profitability | -                                   | -                               |

#### Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. For 3 Month | BC Ratio |
|---|----------------------|------------|--|---|----------|
| 13                                      | 14                   | 15         | 16   | 17  | 18       |
| Technology option 1 (Farmer's practice) | -                    | 9.34       | Lit./day for 3 month   | 8487                                      | 1.64     |
| Technology option 2                     | SDAU, S K Nagar      | 9.71       | Lit./day for 3 month   | 12123                                     | 1.81     |

- 1 **Title of Technology Assessed** Assessment of bypass fat (rumen protected fat) in diets of cross breed cows
- 2 **Problem Definition -** Low Low milk yield due to negative energy balance
- 3 **Details of technologies selected for assessment-** Use of bypass fats (100 gm/ day/ animal) in diets of cross breed cows
- 4 **Source of technology-** NDRI, Karnal
- 5 Production system and thematic area- LPM
- 6 **Performance of the Technology with performance indicators-** Milk yield (Lit./day for 3 month)- T1- 9.34, T2-9.71
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are seen under the technology Use of bypass fat to enhance milk yield as well as fat % in milk resulted enhance the profitability
- Final recommendation for micro level situation Technology of of bypass fat in cross breed cows was found effective over farmers practice & recommendation after compilation of next year data
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

| Crop/<br>enterpri<br>se                         | Far<br>min<br>g<br>situa<br>tion | Problem<br>definition  | Title of OFT   | No.<br>of<br>trials | Technology Assessed   | Parameter<br>s of<br>assessmen<br>t            | Data on the parameter | Results of assessment               | Feedback from the farmer   | Any<br>refine<br>ment<br>neede<br>d | Justific<br>ation<br>for<br>refinem<br>ent |
|---|----------------------------------|--|--|---------------------|---|--|-----------------------|-------------------------------------|--|-------------------------------------|--|
| 1   | 2                                | 3  | 4  | 5                   | 6   | 7  | 8                     | 9                                   | 10   | 11                                  | 12   |
| Indig<br>enou<br>s<br>breed<br>-<br>Kank<br>rej | -                                | Low milk production due to heavy infestation of internal & external parasite in Indigenous breed - Kankrej | Assessment of Ivermectin medicine for the management if internal & external parasite in Indigenous breed - Kankrej | 20                  | Use of Ivermectin @ 1<br>ml/50kg. body weight<br>for the management of<br>internal & external<br>parasite | Milk<br>yield<br>(Lit./da<br>y for 3<br>month) | -                     | T1- 5.80<br>l/day T2- 6.52<br>l/day | Farmers are seen under the technology Use of ivermectin dewormer to control endo & ecto parasite resulted enhance the milk yield as well as net profit |                                     |  |

#### Contd..

| Technology Assessed                     | Source of Technology | Production | Please give the unit<br>(kg/ha, t/ha,<br>lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return (Profit)<br>in Rs. For 3 Month | BC Ratio |
|---|----------------------|------------|--|---|----------|
| 13                                      | 14                   | 15         | 16   | 17  | 18       |
| Technology option 1 (Farmer's practice) | -                    | 5.80       | Lit./day for 3 month   | 3429                                      | 1.32     |
| Technology option 2                     | SDAU, S K Nagar      | 6.52       | Lit./day for 3 month   | 4351                                      | 1.38     |

- Title of Technology Assessed Assessment of Ivermectin medicine for the management if internal & external parasite in Indigenous breed Kankrej
- 2 **Problem Definition** Low milk production due to heavy infestation of internal & external parasite in Indigenous breed Kankrej
- 3 **Details of technologies selected for assessment-** Use of Ivermectin @ 1 ml/50kg. body weight for the management of internal & external parasite
- 4 **Source of technology-** SDAU, S K Nagar
- 5 **Production system and thematic area-** NDRI, Karnal
- **6 Performance of the Technology with performance indicators-** Milk yield (Lit./day for 3 month)- T1- 5.80, T2-6.52
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques Farmers are seen under the technology Use of ivermectin dewormer to control endo & ecto parasite resulted enhance the milk yield as well as net profit
- **Final recommendation for micro level situation** Technology of ivermectin for control of external & internal parasite was found effective over farmers practice & recommendation after compilation of next year data
- 9 Constraints identified and feedback for research- No any Constraints
- 10 Process of farmers participation and their reaction- Farmers are involved each & every activity during technology assessment. They are agree for future adoption

### D1. Results of Technologies Refined - No

#### **Results of On Farm Trial**

| Crop/<br>enterprise | Farming situation | Problem definition | Title of<br>OFT | No. of<br>trials | Technology<br>refined | Parameters of refined t | Data on the parameter | Results of refinement | Feedback<br>from the<br>farmer | Details of refinement done |
|---------------------|-------------------|--------------------|-----------------|------------------|-----------------------|-------------------------|-----------------------|-----------------------|--------------------------------|----------------------------|
| 1                   | 2                 | 3                  | 4               | 5                | 6                     | 7                       | 8                     | 9                     | 10                             | 11                         |
|                     |                   |                    |                 |                  |                       |                         |                       |                       |                                |                            |

#### Contd..

| Technology Refined                   | Source of Technology for Technology Option1 / Justification for modification of assessed Technology Option 1 | Production | Please give the unit (kg/ha,<br>t/ha, lit/animal, nuts/palm,<br>nuts/palm/year) | Net Return<br>(Profit) in Rs. /<br>unit | BC Ratio |
|--------------------------------------|--|------------|---|---|----------|
| 12                                   | 13   | 14         | 15  | 16                                      | 17       |
| Technology Option 1 (best performing |  |            |   |   |          |
| Technology Option in assessment)     |  |            |   |   |          |
| Technology Option 2 (Modification    |  |            |   |   |          |
| over Technology Option 1)            |  |            |   |   |          |
| Technology Option 3 (Another         |  |            |   |   |          |
| Modification over Technology Option  |  |            |   |   |          |
| 1)                                   |  |            |   |   |          |

### D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the following details:

- 1. Title of Technology refined
- 2 Problem Definition
- 3 Details of technologies selected for refinement
- 4 Source of technology
- 5 Production system and thematic area
- 6 Performance of the Technology with performance indicators
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques
- 8 Final recommendation for micro level situation
- 9 Constraints identified and feedback for research
- 10 Process of farmers participation and their reaction

### 3.3. FRONTLINE DEMONSTRATION

A. Follow-up for results of FLDs implemented during previous years
List of technologies demonstrated during previous year and popularized during 2016-17 and recommended for large scale adoption in the district

| Crop/<br>S. Enterpri |                |                        |  | Details of  | Horizontal spread of technology |                |               |  |  |
|----------------------|----------------|------------------------|--|---|---------------------------------|----------------|---------------|--|--|
| S.<br>No             | Enterpri<br>se | Thematic<br>Area*      | Technology demonstrated  | popularization<br>methods suggested to<br>the Extension system  | No. of villages                 | No. of farmers | Area<br>in ha |  |  |
| 1                    | Castor         | ICM                    | Hybrid Variety of castor -GCH-7 & Sunhemp (seed @ 60 kg./ha.) as a green gram + Castor as a main crop  | Training, Demo., Field visit Field day  | 105                             | 2850           | 4750          |  |  |
| 2                    | Groundnut      | ICM                    | Improved variety (GG-20) + Seed treatment with fungicide + Seed inoculation with bio fertilizer + RDF + Timely plant protection  | 105   | 84                              |                |               |  |  |
| 3                    | Green-<br>gram | ICM                    | Improved variety (GAM-5) +Seed treatment by Fungicide and Bio-fertilizer + RDF + Sulphur + IPM module  | Training, Demo., Field visit Field day  | 40                              | 225            | 148           |  |  |
| 4                    | Chilli         | Nutrient<br>Management | Micronutrient (G-4) @ 2 Kg/ ha   | Training, Demo., Field visit Field day  | 15                              | 35             | 10            |  |  |
| 5                    | Chickpea       | ICM                    | Soil inoculation of Trichoderma @ 2.5 kg/ha + Pheroman trap + RDF + Bio-fertilizer + Profenophos 50 EC   | Soil inoculation of Trichoderma @ 2.5 kg/ha + Training, Demo., Field Pheroman trap + RDF + Bio-fertilizer + visit Field day |                                 |                |               |  |  |
| 6                    | Mustard        | ICM                    | Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + Timely plant protection   | Training, Demo., Field visit Field day  | 20                              | 150            | 110           |  |  |
| 7                    | Wheat          | ICM                    | Improve variety (GW-451)+ Seed treatment by Carbendezim 1 gm./kg. seed & Fipronil 5SC @ 600 ml /5 lit. water / 100kg. seed + RDF along with Zinc sulphate 8kg./ha.& Ferrous sulphate | Training, Demo., Field visit Field day  | 55                              | 188            | 225           |  |  |
| 8                    | Ajwain         | Varietal<br>Demo       | Improved variety of Ajwain - Var. Guj. Ajwain-2  | Training, Demo., Field visit Field day  | 30                              | 75             | 50            |  |  |
| 9                    | Fennel         | Varietal<br>Demo&IDM   | Improved variety of Fennel - GF-12   | Training, Demo., Field visit Field day  | 65                              | 1300           | 780           |  |  |
| 10                   | Cumin          | Varietal<br>Demo&IDM   | Improved variety of cumin GC-4 & Three spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS  | Training, Demo., Field visit Field day  | 55                              | 250            | 110           |  |  |

B. Details of FLDs implemented during 2017-18 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

| Sl.<br>N | Сгор                    | Thematic area                       | Technology Demonstrated   | Season and year               | Area     |        | of farr<br>nonstra | Reasons<br>for<br>shortfall in |       |                 |
|----------|-------------------------|-------------------------------------|---|-------------------------------|----------|--------|--------------------|--------------------------------|-------|-----------------|
| 0.       |                         |                                     |   | y cur                         | Proposed | Actual | SC/S<br>T          | Oth<br>ers                     | Total | achieveme<br>nt |
| 1        | Cotton                  | IPM                                 | IPM module – Pheromone trap @ 40/ha + One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinoced 45 SC 2 0.25 Lit/ha                         | Kharif-2017                   | 6.0      | 6.0    | 01                 | 24                             | 25    | -               |
| 2        | Black gram              | ICM                                 | Improved variety of black gram (GU-1), seed treatment<br>by fungicide, Seed inoculation with bio fertilizer, RDF,<br>timely application of IPM module | Kharif, 2017                  | 20       | 20     | 02                 | 48                             | 50    | -               |
| 3        | Castor – Green manuring | Soil<br>fertility<br>managem<br>ent | Sunhemp (seed @ 60 kg./ha.) as a green manuring + Castor as a main crop   | Kharif-2017                   | 05       | 5.0    | 00                 | 20                             | 20    | -               |
| 4        | Castor                  | Varietal evaluation                 | Hybrid variety – GCH-7  | Kharif-2017                   | 15       | 15     | 01                 | 36                             | 37    | -               |
| 5        | Chickpea                | ICM                                 | Improved variety (GJG-3) +Soil inoculation of<br>Trichoderma viridae @ 2.5 kg/ha + Pheroman trap @ 40/ha + RDF + Bio-fertilizer + Profenophos 50 EC   | Rabi, 2017-<br>18             | 20       | 20     | 02                 | 48                             | 50    | -               |
| 6        | Mustard                 | ICM                                 | Improved variety (GDM-4 ) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management                                  | Rabi, 2017-<br>18             | 40       | 40     | 03                 | 97                             | 100   | -               |
| 7        | Mustard- INM            | INM                                 | RDF along with granular sulphur @ 20 Kg/ Ha   | Rabi-17                       | 10       | 10     | 00                 | 25                             | 25    | -               |
| 8        | Wheat- Variety          | Varietal<br>Evaluatio<br>n          | Improved variety of wheat - GW-451  | Rabi-17                       | 10       | 10     | 00                 | 25                             | 25    | -               |
| 9        | Wheat- INM              | INM                                 | RDF along with Zinc sulphate @ 8kg./ha & Ferrous sulphate @ 15 Kg/ha  | Rabi-17                       | 10       | 10     | 00                 | 25                             | 25    | -               |
| 10       | Green fodder            | Feed<br>managem<br>ent              | Kharif- Multi cut jowar & Rabi- Lucerne   | Kharif &<br>Rabi, 2017-<br>18 | 02       | 02     | 02                 | 18                             | 20    | -               |

| 11 | Kitchen garden  | Nutrition food security    | Seasonal vegetable in backyard for supplementing additional vegetable in daily diet                             | Kharif-2017 | 1.0 | 1.0 | 00 | 20 | 20 | - |
|----|-----------------|----------------------------|---|-------------|-----|-----|----|----|----|---|
| 12 | Chilli          | INM                        | Foliar application of Micronutrient (G-4) @ 2 Kg/ ha (Zn,Mn,Cu,B,Fe)  | Kharif-2017 | 05  | 5.0 | 00 | 20 | 20 | - |
| 13 | Fennel- Variety | Varietal evaluation        | Improved variety of fennel – Gujarat Fennel – 12  | Rabi-17     | 10  | 10  | 00 | 25 | 25 | - |
| 14 | Fennel- IDM     | IDM                        | Foliar spay of carbendazim 12% + Mancozeb 63% @ 1.5 Kg/ha at 45,60 & 75 DAS                                     | Rabi-17     | 10  | 10  | 02 | 23 | 25 | - |
| 15 | Ajwain          | Varietal evaluation        | Improved variety of Ajwain - GA-2   | Rabi-17     | 10  | 10  | 00 | 25 | 25 | - |
| 16 | Cumin- Variety  | Varietal<br>Evaluatio<br>n | Improved variety of cumin - GC-4  | Rabi-17     | 10  | 10  | 02 | 23 | 25 | - |
| 17 | Cumin- IDM      | IDM                        | Seed treatment by Trichoderma viridae @ 10gm/ Kg<br>Seed along with soil treatment by T. viridae @ 2.5<br>Kg/ha | Rabi-17     | 10  | 10  | 02 | 23 | 25 | - |

**Details of farming situation** 

| Crop                          | Season           | ason<br>rming<br>ration<br>rrigated) | ming<br>tation<br>trigated) | Farming<br>situation<br>(RF/Irrigated) | l type | Sta | tus o              | f soil  | ous crop          | ng date | est date | Seasonal<br>infall (mm) | of rainy<br>days |
|-------------------------------|------------------|--------------------------------------|-----------------------------|--|--------|-----|--------------------|---|-------------------|---------|----------|-------------------------|------------------|
|                               | Š                | Fan<br>sitt<br>(RF/I                 | Soil                        | N                                      | P      | K   | Previous           | Sowing  | Harv              | Seasc   | No. 6    |                         |                  |
| Cotton                        | Kharif-<br>2017  | Irrigated                            | Sandy<br>loam               | L                                      | L      | M   | -                  | 25 To 30-06-2017  | Up to Feb., 2018  | 77      | 2 5      |                         |                  |
| Black gram                    | Kharif,<br>2017  | Rainfed                              | Sandy<br>loam               | L                                      | L      | M   | Fallow             | 18 to 29/7/2017   | 07 to 21-02-2018  | 77<br>3 | 2 5      |                         |                  |
| Castor –<br>Green<br>manuring | Kharif-<br>2017  | Semi<br>irrigated                    | Sandy<br>loam               | L                                      | L      | M   | Fodder crop        | 16 to 30/08/2017  | Up to March, 2018 | 77<br>3 | 0        |                         |                  |
| Castor                        | Kharif-<br>2017  | Semi<br>irrigated                    | Sandy<br>loam               | L                                      | L      | M   | Jowar              | 20 to 14/07/2017 (Sunhemp)<br>16 to 30/08/2017 (Castor) | Up to March, 2018 | 77<br>3 | 2 5      |                         |                  |
| Chickpea                      | Rabi,<br>2017-18 | Semi<br>irrigated                    | Sandy<br>loam               | L                                      | L      | M   | Chickpea/<br>Cumin | 16 to 25/10/2017  | 07 to 21-02-2018  | 0.<br>0 | 0        |                         |                  |
| Mustard                       | Rabi,<br>2017-18 | Semi<br>irrigated                    | Sandy<br>loam               | L                                      | L      | M   | Groundnut          | 10 to 20/10/2017  | 15 to 25-02-2018  | 0.<br>0 | 0        |                         |                  |
| Mustard-                      | Rabi-17          | Semi                                 | Sandy                       | L                                      | L      | M   | Jowar              | 10 to 20/10/2017  | 15 to 26-02-2018  | 0.      | 0        |                         |                  |

| INM                |                        | irrigated | loam          |   |   |   |                          |                                 |                               | 0       |     |
|--------------------|------------------------|-----------|---------------|---|---|---|--------------------------|---------------------------------|-------------------------------|---------|-----|
| Wheat-<br>Variety  | Rabi-17                | Irrigated | Sandy<br>loam | L | L | M | Green-gram<br>Black-gram | 27 to 30/11/2017                | 26 to 30-03-2018              | 0.<br>0 | 0   |
| Wheat- INM         | Rabi-17                | Irrigated | Sandy<br>loam | L | L | M | Green-gram/<br>Fodder    | 25 to 30/11/2017                | 22 to 30-03-2018              | 0.<br>0 | 0   |
| Green fodder       | Kharif & Rabi, 2017-18 | Irrigated | Sandy<br>loam | L | L | M |                          | July in kharif, October in Rabi | July, 2017 & April, 2018      | 77      | 2 5 |
| Kitchen<br>garden  | Kharif-<br>2017        | Irrigated | Sandy<br>loam | L | L | M | -                        | July in kharif, October in Rabi | -                             | 77<br>3 | 2 5 |
| Chilli             | Kharif-<br>2017        | Irrigated | Sandy<br>loam | L | L | M | Bajara                   | 15 to 20/7/2017                 | Up to March, 2018             | 21<br>8 | 8   |
| Fennel-<br>Variety | Rabi-17                | Irrigated | Sandy<br>loam | L | L | M | Black gram               | 20 to 25/10/2017                | 15 to 20 April, 2018          | 0.<br>0 | 0   |
| Fennel- IDM        | Rabi-17                | Irrigated | Sandy<br>loam | L | L | M | Black gram               | 20 to 25/10/2017                | 15 to 20 April, 2018          | 0.<br>0 | 0   |
| Ajwain             | Rabi-17                | Irrigated | Sandy<br>loam | L | L | M | Black gram               | 10 to 20/10/2017                | 25 March to 10 April,<br>2018 | 0.<br>0 | 0   |
| Cumin-<br>Variety  | Rabi-17                | Irrigated | Sandy<br>loam | L | L | M | Black gram               | 20 to 25/11/2017                | 20 to 30 March, 2018          | 0.<br>0 | 0   |
| Cumin- IDM         | Rabi-17                | Irrigated | Sandy<br>loam | L | L | M | Black gram               | 12 to 17/11/2017                | 15 to 21 March, 2018          | 0.<br>0 | 0   |

### Technical Feedback on the demonstrated technologies

| S. No | Feed Back   |
|-------|---|
| 1     | Need to develop improved /hybrid variety of what, Cumin, Funnel, Azawain, Castor, Groundnut, Mustard, Green gram & Chickpea |
| 2     | Need to develop climate resilient technologies/ varieties   |
| 3     | Need to develop of crop based complex fertilizer  |
| 4     | Need to develop INM module on cropping system   |
| 5     | Need to develop water soluble complex fertilizer as per crop for foliar spray.  |
| 6     | Need to develop drought tolerant/ resistant variety.  |
| 7     | Need to develop IPM module for the management of major insect in vegetable crop.  |
| 8     | Need to develop to resistant variety against disease & insect.  |

## Farmers' reactions on specific technologies

| S. No | Feed Back   |
|-------|---|
|       | Cereals   |
| 1.    | Farmers are observe, under technology (seed treatment by Fipronil 5 % SC) termite infestation is very low in comparison to their own practice, resulted enhance |
|       | the productivity of wheat crop  |
| 2.    | Farmers observe good growth of plant, no lodging & more no of tillers are found in improved variety of wheat (GW-451)   |
|       | Horticultural crops   |
| 1.    | Chilli: Good growth during the season and good quality of fruits due to spraying of Micronutrient (Zn,Mn,Fe,Cu,B)   |
| 2.    | Cumin (Var.) :GC-4 variety have less incidence of blight disease & also high yielding   |
| 3.    | Cumin (IDM): Spraying of SAAF (Carbendazim 12% + Mancozeb 63%) reduce the disease incidence   |
| 4.    | Fennel (IDM): Spraying of SAAF (Carbendazim 12% + Mancozeb 63%) reduce the disease incidence  |
| 5.    | Fennel (Var.): GF-12 variety is high yielding   |
| 6.    | Pomegranate: reduce the fruit cracking  |
| 7.    | Ajwain: No. of umbels per plants and seed per umbels are comparatively more over old/local variety  |
|       | Oil seeds   |
| 1.    | Use Sunhemp as a green manure to reduce the dose of fertilize & enhance FUE in Castor resulted enhance the profitability  |
| 2.    | Castor: GCH-7 variety having excellent growth & more yield over their own practice  |
| 3.    | Groundnut (NMOOP): GG-20 variety having excellent growth & more yield over their own practice   |
| 4.    | Mustard (NMOOP): GDM-4 variety having excellent growth & more yield over their own practice   |
|       | Pulses  |
| 1.    | Green-gram (NFSM) :GAM-5 variety having excellent growth & more yield over their old/ local variety   |
|       | :Taste of grain is comparatively sweet than local/ old varieties  |
| 2.    | Chickpea (NFSM): Under technology reduce the wilt incidence & pod borer infestation resulted enhance the productivity   |
|       | Cotton  |
| -     | -   |
|       | Commercials crops   |
| 1.    | Kitchen garden  |

# Extension and Training activities under FLD

| Sl.No. | Activity                             | No. of activities organized | Date                       | Number of participants | Remarks |
|--------|--------------------------------------|-----------------------------|----------------------------|------------------------|---------|
| A      | Cotton- IPM                          |                             |                            |                        |         |
| 1      | Field days                           | 01                          | 06-11-2017                 | 43                     |         |
| 2      | Farmers Training                     | 01                          | 21-06-2017                 | 25                     |         |
| 3      | Training for extension functionaries | 01                          | 21-06-2017                 | 57                     |         |
| В      | Black gram                           |                             |                            |                        |         |
| 1      | Field days                           | 01                          | 11-10-2017                 | 49                     |         |
| 2      | Farmers Training                     | 03                          | 30 May, 20 & 23 June, 2017 | 80                     |         |

| 3 | Training for extension functionaries | 01 | 21-06-2017                  | 57  |  |
|---|--------------------------------------|----|-----------------------------|-----|--|
| С | Castor – Green manuring              |    |                             |     |  |
| 1 | Field days                           | 01 | 14-03-2018                  | 36  |  |
| 2 | Farmers Training                     | 01 | 24-06-2017                  | 20  |  |
| 3 | Training for extension functionaries | 01 | 21-06-2017                  | 57  |  |
| D | Castor- Variety                      |    |                             |     |  |
| 1 | Field days                           | 01 | 14-02-2018                  | 37  |  |
| 2 | Farmers Training                     | 02 | 12 & 16 -08-2017            | 41  |  |
| 3 | Training for extension functionaries | 01 | 21-06-2017                  | 57  |  |
| E | Chickpea                             |    |                             |     |  |
| 1 | Field days                           | 02 | 16 -01 & 05-02-2018         | 92  |  |
| 2 | Farmers Training                     | 03 | 05, 06-10-2017 & 03-01-2018 | 63  |  |
| 3 | Training for extension functionaries | 01 | 05-01-2018                  | 31  |  |
| F | Mustard                              |    |                             |     |  |
| 1 | Field days                           | 02 | 19 & 30-01-2018             | 74  |  |
| 2 | Farmers Training                     | 03 | 11, 12 & 16- 10-2017        | 75  |  |
| 3 | Training for extension functionaries | 01 | 05-01-2018                  | 31  |  |
| G | Mustard- INM                         |    |                             |     |  |
| 1 | Field days                           | 01 | 15-02-2018                  | 34  |  |
| 2 | Farmers Training                     | 04 | 09, 10, 11 &12-10-2017      | 100 |  |
| 3 | Training for extension functionaries | 01 | 05-01-2018                  | 31  |  |
| H | Wheat- Variety                       |    |                             |     |  |
| 1 | Field days                           | 01 | 17-03-2018                  | 47  |  |
| 2 | Farmers Training                     | 01 | 10-11-2017                  | 30  |  |
| 3 | Training for extension functionaries | 01 | 05-01-2018                  | 31  |  |
| I | Wheat- INM                           |    |                             |     |  |
| 1 | Field days                           | 01 | 28-02-2018                  | 30  |  |
| 2 | Farmers Training                     | 01 | 16-11-2017                  | 25  |  |
| J | Green fodder                         |    |                             |     |  |
| 1 | Field days                           | 02 | 29-12-2017 & 03-01-2018     | 48  |  |
| 2 | Farmers Training                     | 01 | 04-10-2017                  | 21  |  |
| 3 | Training for extension functionaries | 01 | 11-09-2017                  | 15  |  |
| K | Kitchen garden                       |    |                             |     |  |
| 1 | Farmers Training                     | 02 | 05 & 06- 07-2018            | 50  |  |
| L | Chilli                               |    |                             |     |  |
| 1 | Field days                           | 01 | 10-01-2018                  | 38  |  |
| 2 | Farmers Training                     | 03 | 24-05, 11-08 & 14-09-2017   | 62  |  |
| M |                                      |    |                             |     |  |

| 1 | Field days                           | 01 | 27-02-2018      | 30 |  |
|---|--------------------------------------|----|-----------------|----|--|
| 2 | Farmers Training                     | 02 | 13 & 26-09-2017 | 43 |  |
| 3 | Training for extension functionaries | 01 | 30-01-2018      | 15 |  |
| N | Fennel- IDM                          |    |                 |    |  |
| 1 | Field days                           | 01 | 28-02-2018      | 34 |  |
| 2 | Farmers Training                     | 01 | 08-11-2017      | 25 |  |
| 0 | Ajwain                               |    |                 |    |  |
| 1 | Field days                           | 01 | 26-02-2017      | 29 |  |
| 2 | Farmers Training                     | 01 | 11-11-2017      | 25 |  |
| P | Cumin- Variety                       |    |                 |    |  |
| 1 | Field days                           | 01 | 28-02-2018      | 30 |  |
| 2 | Farmers Training                     | 02 | 06 & 07-11-2017 | 50 |  |
| Q | Cumin- IDM                           |    |                 |    |  |
| 1 | Field days                           | 01 | 27-02-2018      | 27 |  |
| 2 | Farmers Training                     | 01 | 11-11-2017      | 25 |  |

#### **C.** Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

|  |      |          |              |            |                |      | Yield (q/ha)     |       | 0/        | Econo | mics of | demonstr | ation                   | E     | conomic | s of chec | k                       |
|--|------|----------|--------------|------------|----------------|------|------------------|-------|-----------|-------|---------|----------|-------------------------|-------|---------|-----------|-------------------------|
|  | Crop | Thematic | technology   | <b>X</b> 7 | No. of         | Area |                  |       | %<br>T    |       | (Rs.    | /ha)     |                         |       | (Rs.    | ./ha)     |                         |
|  |      | Area     | demonstrated | Variety    | <b>Farmers</b> | (ha) | Demo             | Chash | in vield  | Gross | Gross   | Net      | BCR                     | Gross | Gross   | Net       | BCR                     |
|  |      |          |              |            |                |      | High Low Average | Check | iii yieiu | Cost  | Return  | Return   | ( <b>R</b> / <b>C</b> ) | Cost  | Return  | Return    | ( <b>R</b> / <b>C</b> ) |

| Castor –<br>Green<br>manuring | Soil fertility<br>management | Sunhemp (seed @ 60 kg./ha.) as a green manuring + Castor as a main crop   | GCH-7 | 20  | 5.0 | 38.3 | 29.7 | 33.4 | 28.2 | 18.44 | 29350 | 126920 | 97570 | 4.3 | 27980 | 107160 | 79180 | 3.8  |
|-------------------------------|------------------------------|---|-------|-----|-----|------|------|------|------|-------|-------|--------|-------|-----|-------|--------|-------|------|
| Castor                        | Varietal evaluation          | Hybrid variety – GCH-7  | GCH-7 | 37  | 15  | 37.9 | 27.2 | 32.4 | 28.6 | 13.29 | 29100 | 123120 | 94020 | 4.2 | 28820 | 108680 | 79860 | 3.8  |
| Mustard                       | ICM                          | Improved variety (GDM-4) + Seed treatment with fungicide + RDF + Timely irrigation + IPM module for pest management | GDM-4 | 100 | 40  | 21.7 | 13.8 | 17.9 | 15.3 | 16.99 | 17300 | 62650  | 45350 | 3.6 | 15500 | 53550  | 38050 | 3.45 |
| Mustard-<br>INM               | INM                          | RDF along with granular sulphur @ 20 Kg/ Ha   | GDM-4 | 25  | 10  | 21.4 | 13.2 | 17.6 | 15.5 | 13.55 | 16170 | 61600  | 45430 | 3.8 | 15480 | 54250  | 38770 | 3.5  |

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

Frontline demonstration on pulse crops

| Cman     | Thematic | tooka alaam damaanatuuta d       | Vaniato | No. of  | Area |      | Yie  | ld (q/ha) |       | %                 | Econo |        | demonstr<br>./ha) | ation | E     | conomic<br>(Rs. | s of chec<br>/ha) | k     |
|----------|----------|----------------------------------|---------|---------|------|------|------|-----------|-------|-------------------|-------|--------|-------------------|-------|-------|-----------------|-------------------|-------|
| Crop     | Area     | technology demonstrated          | Variety | Farmers |      |      | Den  |           | Check | Increase in yield | Gross |        | Net               |       | Gross |                 | Net               | BCR   |
|          |          |                                  |         |         |      | High |      | Average   | CHECK | III y ICIG        | Cost  | Return | Return            | (R/C) | Cost  | Return          | Return            | (R/C) |
| Black    | ICM      | Improved variety of black        | GU-1    | 50      | 20   | 11.2 | 7.7  | 10.8      | 8.6   | 25.5              | 14125 | 43200  | 29075             | 3.05  | 13700 | 34400           | 20700             | 2.51  |
| gram     |          | gram (GU-1), seed treatment      |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | by fungicide, Seed               |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | inoculation with bio fertilizer, |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | RDF, timely application of       |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | IPM module                       |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
| Chickpea | ICM      | Improved variety (GJG-3)         | GJG-3   | 50      | 20   | 16.0 | 10.6 | 14.1      | 10.9  | 29.30             | 22700 | 51112  | 28412             | 2.25  | 20500 | 39512           | 19012             | 1.92  |
|          |          | +Soil inoculation of             |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | Trichoderma viridae @ 2.5        |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | kg/ha + Pheroman trap @          |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | 40/ha + RDF + Bio-fertilizer     |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |
|          |          | + Profenophos 50 EC              |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   | i     |
|          |          |                                  |         |         |      |      |      |           |       |                   |       |        |                   |       |       |                 |                   |       |

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

**FLD** on Other crops

|  | LDD OIL | Other crops      |              |          |         |      |                  |       |          |       |          |          |                         |       |         |           |                         |
|--|---------|------------------|--------------|----------|---------|------|------------------|-------|----------|-------|----------|----------|-------------------------|-------|---------|-----------|-------------------------|
|  |         |                  |              |          |         |      | Yield (q/ha)     |       | 0/       | Econo | omics of | demonsti | ration                  | E     | conomic | s of chec | k                       |
|  | Crop    | Thematic<br>Area | technology   | Vaniote. | No. of  | Area |                  |       | %<br>T   |       | (Rs.     | /ha)     |                         |       | (Rs.    | /ha)      |                         |
|  |         |                  | demonstrated | Variety  | Farmers | (ha) | Demo             | Ch1-  | Increase | Gross | Gross    | Net      | BCR                     | Gross | Gross   | Net       | BCR                     |
|  |         |                  |              |          |         |      | High Low Average | Check | in yield | Cost  | Return   | Return   | ( <b>R</b> / <b>C</b> ) | Cost  | Return  | Return    | ( <b>R</b> / <b>C</b> ) |

<sup>\*\*</sup> BCR= GROSS RETURN/GROSS COST

| Cotton             | IPM                        | IPM module – Pheromone trap @ 40/ha + One spray of neem oil 1500 ppm@ 1.25 Lit/ha + one spray of spinoced 45 SC 2 0.25 Lit/ha | Bt Cotton                  | 25 | 6.0 | 36.0                           | 24.0        | 30.4    | 25.6   | 18.8  | 36800 | 129200     | 92600  | 3.5  | 34800 | 108800 | 74000 | 3.1  |
|--------------------|----------------------------|---|----------------------------|----|-----|--------------------------------|-------------|---------|--------|-------|-------|------------|--------|------|-------|--------|-------|------|
| Wheat-<br>Variety  | Varietal<br>Evaluation     | Improved variety of wheat - GW-451  | GW-451                     | 25 | 10  | 45.8                           | 35.1        | 40.7    | 34.8   | 16.95 | 29120 | 711225     | 42105  | 2.4  | 28640 | 60900  | 32260 | 2.1  |
| Wheat-<br>INM      | INM                        | RDF along with Zinc sulphate @ 8kg./ha & Ferrous sulphate @ 15 Kg/ha  | GW-451                     | 25 | 10  | 46.8                           | 33.9        | 17.6    | 15.5   | 18.7  | 16170 | 61600      | 45450  | 3.8  | 15480 | 54250  | 38770 | 3.5  |
| Green<br>fodder    | Feed<br>management         | Kharif- Multi cut jowar<br>& Rabi- Lucerne  | GFSH-1<br>& AL_3           | 20 | 02  | GD<br>Yield-<br>1090           | 1205        | 1139.15 |        | 15.36 | 13527 | 25734      | 12207  | 1.90 | 12542 | 22295  | 9754  | 1.78 |
|                    |                            |   |                            |    |     | Milk<br>Yield<br>– 11.2<br>L/D | 10.0<br>L/D | 10.59   | 9.18   |       |       |            |        |      |       |        |       |      |
| Kitchen<br>garden  | Nutrition<br>food security | Seasonal vegetable in<br>backyard for<br>supplementing<br>additional vegetable in<br>daily diet                               | Hybrids<br>of<br>vegetable | 20 | 1.0 |                                |             |         |        |       | Resi  | ılt awaite | d      |      |       |        |       |      |
| Chilli             | INM                        | Foliar application of<br>Micronutrient (G-4) @<br>2 Kg/ ha<br>(Zn,Mn,Cu,B,Fe)   | Hybrid                     | 20 | 5.0 | 244                            | 214         | 227.2   | 207.37 | 9.57  | 81579 | 193129     | 111550 | 2.37 | 80547 | 176263 | 95716 | 2.19 |
| Fennel-<br>Variety | Varietal<br>evaluation     | Improved variety of<br>fennel – Gujarat Fennel<br>– 12  | GF-12                      | 25 | 10  | 16.4                           | 13.9        | 15.4    | 13.5   | 13.73 | 35920 | 100022     | 64102  | 2.79 | 34936 | 87947  | 53011 | 2.52 |
| Fennel-IDM         | IDM                        | Foliar spay of<br>carbendazim 12% +<br>Mancozeb 63% @ 1.5<br>Kg/ha at 45,60 & 75<br>DAS                                       | GF-12                      | 25 | 10  | 19.6                           | 15.2        | 17.8    | 14.7   | 21.1  | 22300 | 102350     | 80050  | 4.6  | 20600 | 84525  | 63925 | 4.1  |
| Ajwain             | Varietal evaluation        | Improved variety of<br>Ajwain - GA-2  | GA-2                       | 25 | 10  | 19.5                           | 14.1        | 20.5    | 17.5   | 16.7  | 32325 | 112558     | 802325 | 4.4  | 31730 | 96470  | 64740 | 3.8  |
| Cumin-<br>Variety  | Varietal<br>Evaluation     | Improved variety of cumin - GC-4  | GC-4                       | 25 | 10  | 11.6                           | 8.6         | 10.02   | 8.46   | 18.50 | 38196 | 135270     | 97074  | 3.54 | 34940 | 114156 | 79216 | 3.27 |

| Cumin- | IDM | Seed treatment by      | GC-2 | 25 | 10 | 12.1 | 8.4 | 10.24 | 8.75 | 17.02 | 34900 | 138240 | 103340 | 3.96 | 32100 | 118125 | 86025 | 3.67 |
|--------|-----|------------------------|------|----|----|------|-----|-------|------|-------|-------|--------|--------|------|-------|--------|-------|------|
| IDM    |     | Trichoderma viridae @  |      |    |    |      |     |       |      |       |       |        |        |      |       |        |       |      |
|        |     | 10gm/ Kg Seed along    |      |    |    |      |     |       |      |       |       |        |        |      |       |        |       |      |
|        |     | with soil treatment by |      |    |    |      |     |       |      |       |       |        |        |      |       |        |       |      |
|        |     | T. viridae @ 2.5 Kg/ha |      |    |    |      |     |       |      |       |       |        |        |      |       |        |       |      |

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

#### **FLD on Livestock**

| Category | Thematic    | Name of the        | No. of | No.of Units     | Major pa     | arameters    | %         | Ot   | her   | Econo | mics of | demonst   | ration                  | Ec    | onomics | of che | ck         |
|----------|-------------|--------------------|--------|-----------------|--------------|--------------|-----------|------|-------|-------|---------|-----------|-------------------------|-------|---------|--------|------------|
|          | area        | technology         | Farmer | (Animal/        |              |              | change    | para | meter |       | (R      | s.)       |                         |       | (R      | s.)    |            |
|          |             | demonstrated       |        | Poultry/ Birds, | Demo         | Check        | in major  | Demo | Check | Gross | Gross   | Net       | BCR                     | Gross | Gross   | Net    | <b>BCR</b> |
|          |             |                    |        | etc)            |              |              | parameter |      |       | Cost  | Return  | Return    | ( <b>R</b> / <b>C</b> ) | Cost  | Return  | Return | (R/C)      |
| Buffalo  | Nutritional | Mineral            | 10     | 1 Animal        | Milk Yield - | Milk Yield - | 12.61     | -    | -     | 13068 | 37022   | 23951     | 2.83                    | 12537 | 32875   | 20338  | 2.62       |
|          | Management  | mixture@40gm/ day  |        |                 | 8.57 L/day   | 7.61 L/day   |           |      |       |       |         |           |                         |       |         |        |            |
|          |             |                    |        |                 | for 3 month  | for 3 month  |           |      |       |       |         |           |                         |       |         |        |            |
| Poultry  | Breed       | Breed for backyard | 10     | 25 chicks       | Body weight  | Body weight  |           |      |       |       | Resul   | t awaited |                         |       |         |        |            |
|          |             | poultry- RIR       |        |                 | - Kg         | - Kg         |           |      |       |       |         |           |                         |       |         |        |            |

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

#### **FLD on Fisheries**

|          | Thematic | Name of the                | No. of     | No of          | Major pa         | rameters | % change                  | Other pa | rameter | Econom        | nics of der     | nonstrati     | on (Rs.)     | E             |                     | s of check<br>(s.) |             |
|----------|----------|----------------------------|------------|----------------|------------------|----------|---------------------------|----------|---------|---------------|-----------------|---------------|--------------|---------------|---------------------|--------------------|-------------|
| Category | area     | technology<br>demonstrated | Farme<br>r | No.of<br>units | Demons<br>ration | Check    | in major<br>paramete<br>r | Demons   | Check   | Gross<br>Cost | Gross<br>Return | Net<br>Return | BCR<br>(R/C) | Gross<br>Cost | Gross<br>Retur<br>n | Net<br>Return      | BCR<br>(R/C |
| Common   |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |
| Carps    |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |
| Composit |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |
| e fish   |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |
| culture  |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |
| Feed     |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |
| Manage   |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |
| ment     |          |                            |            |                |                  |          |                           |          |         |               |                 |               |              |               |                     |                    |             |

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

<sup>\*\*</sup> BCR= GROSS RETURN/GROSS COST

<sup>\*\*</sup> BCR= GROSS RETURN/GROSS COST

<sup>\*\*</sup> BCR= GROSS RETURN/GROSS COST

#### **FLD on Other enterprises**

| Category        | Name of the  | No. of | No.of | Maj   | or    | % change | Other pa | arameter | Econ  | omics of | demonstr | ation                   |       | <b>Economic</b> | s of check |                         |
|-----------------|--------------|--------|-------|-------|-------|----------|----------|----------|-------|----------|----------|-------------------------|-------|-----------------|------------|-------------------------|
|                 | technology   | Farmer | units | param | eters | in major |          |          |       | (Rs.) or | Rs./unit |                         |       | (Rs.) or        | Rs./unit   |                         |
|                 | demonstrated |        |       | Demo  | Check | paramete | Demo     | Check    | Gross | Gross    | Net      | BCR                     | Gross | Gross           | Net        | BCR                     |
|                 |              |        |       |       |       | r        |          |          | Cost  | Return   | Return   | ( <b>R</b> / <b>C</b> ) | Cost  | Return          | Return     | ( <b>R</b> / <b>C</b> ) |
| Oyster Mushroom |              |        |       |       |       |          |          |          |       |          |          |                         |       |                 |            |                         |

**FLD on Women Empowerment** 

| Category | Name of    | No. of         | Name of observations | Demonstration | Check |
|----------|------------|----------------|----------------------|---------------|-------|
|          | technology | demonstrations |                      |               |       |
|          |            |                |                      |               |       |

FLD on Farm Implements and Machinery

| Name of the | Crop | Technology   | No. of | Area | Major      | File | d     | % change  | Labor           | reduction | n (man da | ıys)  | (               | Cost red | uction  |       |
|-------------|------|--------------|--------|------|------------|------|-------|-----------|-----------------|-----------|-----------|-------|-----------------|----------|---------|-------|
| implement   |      | demonstrated | Farmer | (ha) | parameters | Demo | Check | in major  | Land            | Sowing    | Weedin    | Total | Land            | Labou    | Irrigat | Total |
|             |      |              |        |      |            |      |       | parameter | preparatio<br>n |           | g         |       | preparat<br>ion | r        | ion     |       |
|             |      |              |        |      |            |      |       |           |                 |           |           |       | 1011            |          |         |       |

#### FLD on Other Enterprise: Kitchen Gardening

| Category | Thematic | Name of the | No. of | No. of | Yield  | (Kg)  | %        | Other p | arameters | Econ  | omics of d | lemonstra | tion  | E     | conomics | of check |       |
|----------|----------|-------------|--------|--------|--------|-------|----------|---------|-----------|-------|------------|-----------|-------|-------|----------|----------|-------|
| and Crop | area     | technology  | Farme  | Units  |        | c     |          | _       |           |       | (Rs.       | /ha)      |       |       | (Rs./    | ha)      |       |
|          |          | demonstrate | r      |        | Demons | Check | in yield | Demo    | Check     | Gross | Gross      | Net       | BCR   | Gross | Gross    | Net      | BCR   |
|          |          | d           |        |        | ration |       |          |         |           | Cost  | Return     | Return    | (R/C) | Cost  | Return   | Return   | (R/C) |
|          |          |             |        |        |        |       |          |         |           |       |            |           |       |       |          |          |       |

#### FLD on Demonstration details on crop hybrids

|              | toohnology                 | Hybrid  | No. of  | Amoo         |      | Yield (q/   | ha)     |       | % Increase | Econom        | ics of demo     | nstration (R  | s./ha)       |
|--------------|----------------------------|---------|---------|--------------|------|-------------|---------|-------|------------|---------------|-----------------|---------------|--------------|
| Crop         | technology<br>demonstrated | Variety | Farmers | Area<br>(ha) | High | Demo<br>Low | Average | Check | in yield   | Gross<br>Cost | Gross<br>Return | Net<br>Return | BCR<br>(R/C) |
| Oilseed crop |                            |         |         |              | J    |             |         |       |            |               |                 |               |              |
| Castor       | Hybrid variety –<br>GCH-7  | GCH-7   | 37      | 15.0         | 37.9 | 27.2        | 32.4    | 28.6  | 13.29      | 29100         | 123120          | 94020         | 4.2          |

Note: Remove the Enterprises/crops which have not been shown

# 3.4. Training Programmes

## Farmers' Training including sponsored training programmes (on campus)

| Thematic area          | No. of   |        |        |       | P      | articipan | ts        |        |            |          |
|------------------------|----------|--------|--------|-------|--------|-----------|-----------|--------|------------|----------|
| Thomatic area          | courses  |        | Others |       |        | SC/ST     |           | G      | rand Total | al       |
|                        |          | Male   | Female | Total | Male   | Female    | Total     | Male   | Female     | Total    |
| I Crop Production      |          | 112020 |        | 20002 | 112020 |           | 2 3 3 3 3 | 112622 | 2 022020   | 2 0 0012 |
| Weed Management        | 01       | 14     | 00     | 14    | 01     | 00        | 01        | 15     | 00         | 15       |
| Resource               |          |        |        |       |        |           |           |        |            |          |
| Conservation           |          |        |        |       |        |           |           |        |            |          |
| Technologies           |          |        |        |       |        |           |           |        |            |          |
| Cropping Systems       |          |        |        |       |        |           |           |        |            |          |
| Crop Diversification   |          |        |        |       |        |           |           |        |            |          |
| Integrated Farming     |          |        |        |       |        |           |           |        |            |          |
| Micro                  |          |        |        |       |        |           |           |        |            |          |
| Irrigation/irrigation  |          |        |        |       |        |           |           |        |            |          |
| Seed production        |          |        |        |       |        |           |           |        |            |          |
| Nursery management     |          |        |        |       |        |           |           |        |            |          |
| Integrated Crop        |          |        |        |       |        |           |           |        |            |          |
| Management             | 05       | 128    | 00     | 128   | 03     | 00        | 03        | 131    | 00         | 131      |
| Soil & water           | 32       |        |        |       | 32     | - 55      |           |        |            |          |
| conservatioin          | 02       | 50     | 00     | 50    | 00     | 00        | 00        | 50     | 00         | 50       |
| Integrated nutrient    | 02       |        | 00     | 20    | 00     |           | 00        | - 20   | 00         | 20       |
| management             |          |        |        |       |        |           |           |        |            |          |
| Production of organic  |          |        |        |       |        |           |           |        |            |          |
| inputs                 |          |        |        |       |        |           |           |        |            |          |
| Others (pl specify)    |          |        |        |       |        |           |           |        |            |          |
| Total                  | 08       | 192    | 00     | 182   | 04     | 00        | 04        | 196    | 00         | 196      |
| II Horticulture        | 00       | 1/2    | 00     | 102   | 04     | 00        | 04        | 170    | 00         | 170      |
| a) Vegetable Crops     |          |        |        |       |        |           |           |        |            |          |
| Production of low      |          |        |        |       |        |           |           |        |            |          |
| value and high         |          |        |        |       |        |           |           |        |            |          |
| valume crops           |          |        |        |       |        |           |           |        |            |          |
| Off-season             |          |        |        |       |        |           |           |        |            |          |
| vegetables             |          |        |        |       |        |           |           |        |            |          |
| Nursery raising        | 01       | 20     | 00     | 20    | 00     | 00        | 00        | 20     | 00         | 20       |
| Exotic vegetables      | 01       | 20     | 00     | 20    | 00     | 00        | 00        | 20     | 00         | 20       |
| Export potential       |          |        |        |       |        |           |           |        |            |          |
| vegetables             |          |        |        |       |        |           |           |        |            |          |
| Grading and            |          |        |        |       |        |           |           |        |            |          |
| standardization        |          |        |        |       |        |           |           |        |            |          |
| Protective cultivation |          |        |        |       |        |           |           |        |            |          |
| Others (pl specify)    |          |        |        |       |        |           |           |        |            |          |
| Total (a)              | 01       | 20     | 00     | 20    | 00     | 00        | 00        | 20     | 00         | 20       |
| b) Fruits              | VI       | 20     | - 00   | 20    | 00     | 00        | 00        | 20     | 00         | 20       |
| Training and Pruning   |          |        |        |       |        |           |           |        |            |          |
| Layout and             |          |        |        |       |        |           |           |        |            |          |
| Management of          |          |        |        |       |        |           |           |        |            |          |
| Orchards               |          |        |        |       |        |           |           |        |            |          |
| Cultivation of Fruit   |          |        |        |       |        |           |           |        |            |          |
| Management of          |          |        |        |       |        |           |           |        |            |          |
| young                  |          |        |        |       |        |           |           |        |            |          |
| plants/orchards        |          |        |        |       |        |           |           |        |            |          |
| Rejuvenation of old    |          |        |        |       |        |           |           |        |            |          |
| Rejuvenation of old    | <u> </u> |        |        |       |        | <u> </u>  |           |        |            |          |

| orchards                      |     |    | 1  |    |     |    |     |            | <u> </u>     |     |
|-------------------------------|-----|----|----|----|-----|----|-----|------------|--------------|-----|
| Export potential              |     |    |    |    |     |    |     |            |              |     |
| fruits                        |     |    |    |    |     |    |     |            | ļ            |     |
| Micro irrigation              |     |    |    |    |     |    |     |            |              |     |
| systems of orchards           |     |    |    |    |     |    |     |            |              |     |
| Plant propagation             |     |    |    |    |     |    |     |            |              |     |
| techniques                    |     |    |    |    |     |    |     |            |              |     |
| Others (pl specify)           |     |    |    |    |     |    |     |            |              |     |
| Total (b)                     |     |    |    |    |     |    |     |            |              |     |
| c) Ornamental                 |     |    |    |    |     |    |     |            |              |     |
| Plants                        |     |    |    |    |     |    |     |            |              |     |
| Nursery Management            |     |    |    |    |     |    |     |            |              |     |
| Management of                 |     |    |    |    |     |    |     |            |              |     |
| potted plants                 |     |    |    |    |     |    |     |            |              |     |
| Export potential of           |     |    |    |    |     |    |     |            |              |     |
| ornamental plants             |     |    |    |    |     |    |     |            |              |     |
| Propagation Propagation       |     |    |    |    |     |    |     |            |              |     |
| techniques of                 |     |    |    |    |     |    |     |            |              |     |
| Ornamental Plants             |     |    |    |    |     |    |     |            |              |     |
| Others (pl specify)           |     |    |    |    |     |    |     |            |              |     |
| Total (c)                     |     |    |    |    |     |    |     |            |              |     |
| d) Plantation crops           |     |    |    |    |     |    |     |            |              |     |
| Production and                |     |    |    |    |     |    |     |            |              |     |
| Management                    |     |    |    |    |     |    |     |            |              |     |
| technology                    |     |    |    |    |     |    |     |            |              |     |
| Processing and value          |     |    |    |    |     |    |     |            |              |     |
| addition                      |     |    |    |    |     |    |     |            |              |     |
| Others (pl specify)           |     |    |    |    |     |    |     |            |              |     |
| Total (d)                     |     |    |    |    |     |    |     |            |              |     |
|                               |     |    |    |    |     |    |     |            |              |     |
| e) Tuber crops Production and |     |    |    |    |     |    |     |            |              |     |
|                               |     |    |    |    |     |    |     |            |              |     |
| Management                    |     |    |    |    |     |    |     |            |              |     |
| technology                    |     |    |    |    |     |    |     |            |              |     |
| Processing and value addition |     |    |    |    |     |    |     |            |              |     |
|                               |     |    |    |    |     |    |     |            |              |     |
| Others (pl specify)           |     |    |    |    |     |    |     |            |              |     |
| Total (e)                     |     |    |    |    |     |    |     |            | <u> </u>     |     |
| f) Spices                     |     |    |    |    |     |    |     |            | <u> </u>     |     |
| Production and                |     |    |    |    |     |    |     |            |              |     |
| Management                    | 02  | 70 | 00 | 70 | 02  | 00 | 02  | 7.4        | 00           | 7.4 |
| technology                    | 03  | 72 | 00 | 72 | 02  | 00 | 02  | 74         | 00           | 74  |
| Processing and value          |     |    |    |    |     |    |     |            | ]            |     |
| addition (71 and 2 if y)      |     |    |    |    |     |    |     |            |              |     |
| Others (pl specify)           | 0.2 | 70 | 00 | 72 | 0.2 | 00 | 0.2 | <b>7</b> 4 | 00           | 7.4 |
| Total (f)                     | 03  | 72 | 00 | 72 | 02  | 00 | 02  | 74         | 00           | 74  |
| g) Medicinal and              |     |    |    |    |     |    |     |            | ]            |     |
| Aromatic Plants               |     |    |    |    |     |    |     |            |              |     |
| Nursery management            |     |    |    |    |     |    |     |            |              |     |
| Production and                |     |    |    |    |     |    |     |            | ]            |     |
| management                    |     |    |    |    |     |    |     |            | ]            |     |
| technology                    |     |    |    |    |     |    |     |            | <del> </del> |     |
| Post harvest                  |     |    |    |    |     |    |     |            |              |     |
| technology and value          |     |    |    |    |     |    |     |            | ]            |     |
| addition                      |     |    |    |    |     |    |     |            |              |     |

| Others (pl specify)   |    |    |    |    |    |          |    |    |    |    |
|-----------------------|----|----|----|----|----|----------|----|----|----|----|
| Total (g)             |    |    |    |    |    |          |    |    |    |    |
| GT (a-g)              | 04 | 92 | 00 | 92 | 02 | 00       | 02 | 94 | 00 | 94 |
| III Soil Health and   |    |    |    |    |    |          |    |    |    |    |
| Fertility             |    |    |    |    |    |          |    |    |    |    |
| Management            |    |    |    |    |    |          |    |    |    |    |
| Soil fertility        |    |    |    |    |    |          |    |    |    |    |
| management            | 01 | 20 | 00 | 20 | 00 | 00       | 00 | 20 | 00 | 20 |
| Integrated water      |    |    |    |    |    |          |    |    |    |    |
| management            |    |    |    |    |    |          |    |    |    |    |
| Integrated Nutrient   |    |    |    |    |    |          |    |    |    |    |
| Management            |    |    |    |    |    |          |    |    |    |    |
| Production and use of |    |    |    |    |    |          |    |    |    |    |
| organic inputs        |    |    |    |    |    |          |    |    |    |    |
| Management of         |    |    |    |    |    |          |    |    |    |    |
| Problematic soils     |    |    |    |    |    |          |    |    |    |    |
| Micro nutrient        |    |    |    |    |    |          |    |    |    |    |
| deficiency in crops   |    |    |    |    |    |          |    |    |    |    |
| Nutrient Use          |    |    |    |    |    |          |    |    |    |    |
| Efficiency            |    |    |    |    |    |          |    |    |    |    |
| Balance use of        |    |    |    |    |    |          |    |    |    |    |
| fertilizers           |    |    |    |    |    |          |    |    |    |    |
| Soil and Water        |    |    |    |    |    |          |    |    |    |    |
| Testing               |    |    |    |    |    |          |    |    |    |    |
| Others (pl specify)   |    |    |    |    |    |          |    |    |    |    |
| Total                 | 01 | 20 | 00 | 20 | 00 | 00       | 00 | 20 | 00 | 20 |
| IV Livestock          | -  |    |    |    |    |          |    |    |    |    |
| Production and        |    |    |    |    |    |          |    |    |    |    |
| Management            |    |    |    |    |    |          |    |    |    |    |
| Dairy Management      |    |    |    |    |    |          |    |    |    |    |
| Poultry Management    |    |    |    |    |    |          |    |    |    |    |
| Piggery Management    |    |    |    |    |    |          |    |    |    |    |
| Rabbit Management     |    |    |    |    |    |          |    |    |    |    |
| Animal Nutrition      |    |    |    |    |    |          |    |    |    |    |
| Management            |    |    |    |    |    |          |    |    |    |    |
| Disease Management    | 01 | 00 | 19 | 19 | 00 | 01       | 01 | 00 | 20 | 20 |
| Feed & fodder         | 01 | 00 | 17 | 17 |    | 01       | 01 | 00 |    |    |
| technology            | 03 | 19 | 35 | 54 | 02 | 04       | 06 | 21 | 39 | 60 |
| Production of quality |    |    |    |    |    | <u> </u> | 00 |    |    |    |
| animal products       |    |    |    |    |    |          |    |    |    |    |
| Others (pl specify)   |    |    |    |    |    |          |    |    |    |    |
| Total                 | 04 | 19 | 54 | 54 | 02 | 05       | 07 | 21 | 59 | 80 |
| V Home                |    |    |    |    | 02 | 00       | 07 |    |    |    |
| Science/Women         |    |    |    |    |    |          |    |    |    |    |
| empowerment           |    |    |    |    |    |          |    |    |    |    |
| Household food        |    |    |    |    |    |          |    |    |    |    |
| security by kitchen   |    |    |    |    |    |          |    |    |    |    |
| gardening and         |    |    |    |    |    |          |    |    |    |    |
| nutrition gardening   |    |    |    |    |    |          |    |    |    |    |
| Design and            |    |    |    |    |    |          |    |    |    |    |
| development of        |    |    |    |    |    |          |    |    |    |    |
| low/minimum cost      |    |    |    |    |    |          |    |    |    |    |
| diet                  |    |    |    |    |    |          |    |    |    |    |
| Designing and         |    |    |    | +  |    |          |    |    |    |    |
| Dongming and          |    |    |    |    |    |          |    |    |    |    |

| dayslamment for high             | Ì  | ĺ   | ĺ   | ĺ   | ĺ  |    |    |     |     | ĺ   |
|----------------------------------|----|-----|-----|-----|----|----|----|-----|-----|-----|
| development for high             |    |     |     |     |    |    |    |     |     |     |
| nutrient efficiency              |    |     |     |     |    |    |    |     |     |     |
| diet                             |    |     |     |     |    |    |    |     |     |     |
| Minimization of                  |    |     |     |     |    |    |    |     |     |     |
| nutrient loss in                 |    |     |     |     |    |    |    |     |     |     |
| processing                       |    |     |     |     |    |    |    |     |     |     |
| Processing and                   |    |     |     |     |    |    |    |     |     |     |
| cooking                          |    |     |     |     |    |    |    |     |     |     |
| Gender                           |    |     |     |     |    |    |    |     |     |     |
| mainstreaming                    |    |     |     |     |    |    |    |     |     |     |
| through SHGs                     |    |     |     |     |    |    |    |     |     |     |
| Storage loss                     |    |     |     |     |    |    |    |     |     |     |
| minimization                     |    |     |     |     |    |    |    |     |     |     |
| techniques                       |    |     |     |     |    |    |    |     |     |     |
| Value addition                   | 05 | 00  | 139 | 139 | 00 | 00 | 00 | 00  | 139 | 139 |
| Women                            |    |     |     |     |    |    |    |     |     |     |
| empowerment                      |    |     |     |     |    |    |    |     |     |     |
| Location specific                |    |     |     |     |    |    |    |     |     |     |
| drudgery reduction               |    |     |     |     |    |    |    |     |     |     |
| technologies                     |    |     |     |     |    |    |    |     |     |     |
| Rural Crafts                     |    |     |     |     |    |    |    |     |     |     |
| Women and child                  |    |     |     |     |    |    |    |     |     |     |
|                                  |    |     |     |     |    |    |    |     |     |     |
| Others (planacify)               |    |     |     |     |    |    |    |     |     |     |
| Others (pl specify) <b>Total</b> | 05 | 00  | 139 | 139 | 00 | 00 | 00 | 00  | 139 | 139 |
|                                  | 05 | UU  | 139 | 139 | UU | UU | UU | UU  | 139 | 139 |
| VI Agril.<br>Engineering         |    |     |     |     |    |    |    |     |     |     |
| Farm Machinary and               |    |     |     |     |    |    |    |     |     |     |
| its maintenance                  |    |     |     |     |    |    |    |     |     |     |
| Installation and                 |    |     |     |     |    |    |    |     |     |     |
|                                  |    |     |     |     |    |    |    |     |     |     |
| maintenance of micro             |    |     |     |     |    |    |    |     |     |     |
| irrigation systems               |    |     |     |     |    |    |    |     |     |     |
| Use of Plastics in               |    |     |     |     |    |    |    |     |     |     |
| farming practices                |    |     |     |     |    |    |    |     |     |     |
| Production of small              |    |     |     |     |    |    |    |     |     |     |
| tools and implements             |    |     |     |     |    |    |    |     |     |     |
| Repair and                       |    |     |     |     |    |    |    |     |     |     |
| maintenance of farm              |    |     |     |     |    |    |    |     |     |     |
| machinery and                    |    |     |     |     |    |    |    |     |     |     |
| implements                       |    |     |     |     |    |    |    |     |     |     |
| Small scale                      |    |     |     |     |    |    |    |     |     |     |
| processing and value             |    |     |     |     |    |    |    |     |     |     |
| addition                         |    |     |     |     |    |    |    |     |     |     |
| Post Harvest                     |    |     |     |     |    |    |    |     |     |     |
| Technology                       |    |     |     |     |    |    |    |     |     |     |
| Others (pl specify)              |    |     |     |     |    |    |    |     |     |     |
| Total                            |    |     |     |     |    |    |    |     |     |     |
| VII Plant Protection             |    |     |     |     |    |    |    |     |     |     |
| Integrated Pest                  |    |     |     |     |    |    |    |     |     |     |
| Management                       | 05 | 120 | 00  | 120 | 05 | 00 | 05 | 125 | 00  | 125 |
| Integrated Disease               |    |     |     |     |    |    |    |     |     |     |
| Management                       | 03 | 66  | 00  | 66  | 04 | 00 | 04 | 70  | 00  | 70  |
| Bio-control of pests             |    |     |     |     |    |    |    |     |     |     |
| and diseases                     |    |     |     |     |    |    |    |     |     |     |
|                                  |    |     |     |     |    |    |    |     | l   |     |

| Production of bio     |    |     |    |     |    |    |    |     |    |     |
|-----------------------|----|-----|----|-----|----|----|----|-----|----|-----|
| control agents and    |    |     |    |     |    |    |    |     |    |     |
| bio pesticides        |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)   |    |     |    |     |    |    |    |     |    |     |
| Total                 | 08 | 186 | 00 | 186 | 09 | 00 | 09 | 195 | 00 | 195 |
| VIII Fisheries        |    |     |    |     |    |    |    |     |    |     |
| Integrated fish       |    |     |    |     |    |    |    |     |    |     |
| farming               |    |     |    |     |    |    |    |     |    |     |
| Carp breeding and     |    |     |    |     |    |    |    |     |    |     |
| hatchery              |    |     |    |     |    |    |    |     |    |     |
| management            |    |     |    |     |    |    |    |     |    |     |
| Carp fry and          |    |     |    |     |    |    |    |     |    |     |
| fingerling rearing    |    |     |    |     |    |    |    |     |    |     |
| Composite fish        |    |     |    |     |    |    |    |     |    |     |
| culture               |    |     |    |     |    |    |    |     |    |     |
| Hatchery              |    |     |    |     |    |    |    |     |    |     |
| management and        |    |     |    |     |    |    |    |     |    |     |
| culture of freshwater |    |     |    |     |    |    |    |     |    |     |
| prawn                 |    |     |    |     |    |    |    |     |    |     |
| Breeding and culture  |    |     |    |     |    |    |    |     |    |     |
| of ornamental fishes  |    |     |    |     |    |    |    |     |    |     |
| Portable plastic carp |    |     |    |     |    |    |    |     |    |     |
| hatchery              |    |     |    |     |    |    |    |     |    |     |
| Pen culture of fish   |    |     |    |     |    |    |    |     |    |     |
| and prawn             |    |     |    |     |    |    |    |     |    |     |
| Shrimp farming        |    |     |    |     |    |    |    |     |    |     |
| Edible oyster farming |    |     |    |     |    |    |    |     |    |     |
| Pearl culture         |    |     |    |     |    |    |    |     |    |     |
| Fish processing and   |    |     |    |     |    |    |    |     |    |     |
| value addition        |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)   |    |     |    |     |    |    |    |     |    |     |
| Total                 |    |     |    |     |    |    |    |     |    |     |
| IX Production of      |    |     |    |     |    |    |    |     |    |     |
| Inputs at site        |    |     |    |     |    |    |    |     |    |     |
| Seed Production       |    |     |    |     |    |    |    |     |    |     |
| Planting material     |    |     |    |     |    |    |    |     |    |     |
| production            |    |     |    |     |    |    |    |     |    |     |
| Bio-agents            |    |     |    |     |    |    |    |     |    |     |
| production            |    |     |    |     |    |    |    |     |    |     |
| 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       | [ [ | İ   | l I |     |    |   |    |     |     |     |
|---------------------|-----|-----|-----|-----|----|---|----|-----|-----|-----|
| livestock feed and  |     |     |     |     |    |   |    |     |     |     |
| fodder              |     |     |     |     |    |   |    |     |     |     |
| Production of Fish  |     |     |     |     |    |   |    |     |     |     |
| feed                |     |     |     |     |    |   |    |     |     |     |
| Mushroom            |     |     |     |     |    |   |    |     |     |     |
| Production          |     |     |     |     |    |   |    |     |     |     |
| Apiculture          |     |     |     |     |    |   |    |     |     |     |
| Others (pl specify) |     |     |     |     |    |   |    |     |     |     |
| Total               |     |     |     |     |    |   |    |     |     |     |
| X CapacityBuilding  |     |     |     |     |    |   |    |     |     |     |
| 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 (pl specify) |     |     |     |     |    |   |    |     |     |     |
| Total               |     |     |     |     |    |   |    |     |     |     |
| XI Agro-forestry    |     |     |     |     |    |   |    |     |     |     |
| Production          |     |     |     |     |    |   |    |     |     |     |
| technologies        |     |     |     |     |    |   |    |     |     |     |
| Nursery management  |     |     |     |     |    |   |    |     |     |     |
| Integrated Farming  |     |     |     |     |    |   |    |     |     |     |
| Systems             |     |     |     |     |    |   |    |     |     |     |
| Others (pl specify) |     |     |     |     |    |   |    |     |     |     |
| Total               |     |     |     |     |    |   |    |     |     |     |
| GRAND TOTAL         | 30  | 509 | 193 | 673 | 17 | 5 | 22 | 526 | 198 | 724 |

Farmers' Training including sponsored training programmes (off campus)

| Thematic area                  | No. of   |      |        |       | P    | articipan | ts    |      |           |       |
|--------------------------------|----------|------|--------|-------|------|-----------|-------|------|-----------|-------|
|                                | courses  |      | Others |       |      | SC/ST     |       | G    | Frand Tot | al    |
|                                |          | Male | Female | Total | Male | Female    | Total | Male | Female    | Total |
| I Crop Production              |          |      |        |       |      |           |       |      |           |       |
| Weed Management                | 01       | 17   | 00     | 17    | 00   | 00        | 00    | 17   | 00        | 17    |
| Resource                       |          |      |        |       |      |           |       |      |           |       |
| Conservation                   |          |      |        |       |      |           |       |      |           |       |
| Technologies                   |          |      |        |       |      |           |       |      |           |       |
| Cropping Systems               |          |      |        |       |      |           |       |      |           |       |
| Crop Diversification           |          |      |        |       |      |           |       |      |           |       |
| Integrated Farming             |          |      |        |       |      |           |       |      |           |       |
| Micro                          |          |      |        |       |      |           |       |      |           |       |
| Irrigation/irrigation          | 01       | 25   | 00     | 25    | 00   | 00        | 00    | 25   | 00        | 25    |
| Seed production                |          |      |        |       |      |           |       |      |           |       |
| Nursery management             |          |      |        |       |      |           |       |      |           |       |
| Integrated Crop                |          |      |        |       |      |           |       |      |           |       |
| Management                     |          |      |        |       |      |           |       |      |           |       |
| Soil & water                   |          |      |        |       |      |           |       |      |           |       |
| conservatioin                  |          |      |        |       |      |           |       |      |           |       |
| Integrated nutrient            |          |      |        |       |      |           |       |      |           |       |
| management                     | 02       | 44   | 00     | 44    | 02   | 00        | 02    | 46   | 00        | 46    |
| Production of organic          | <u> </u> |      |        |       | 02   |           | 02    |      |           |       |
| inputs                         | 01       | 14   | 00     | 14    | 01   | 00        | 01    | 15   | 00        | 15    |
| Others (pl specify)            | 01       | 18   | 00     | 18    | 00   | 00        | 00    | 18   | 00        | 18    |
| Total                          | 06       | 118  | 0      | 118   | 3    | 0         | 3     | 121  | 0         | 121   |
| II Horticulture                | 00       | 110  | U      | 110   | 3    | 0         | 3     | 121  | U         | 141   |
| a) Vegetable Crops             |          |      |        |       |      |           |       |      |           |       |
| Production of low              |          |      |        |       |      |           |       |      |           |       |
| value and high                 |          |      |        |       |      |           |       |      |           |       |
| value and high<br>valume crops |          |      |        |       |      |           |       |      |           |       |
| Off-season                     |          |      |        |       |      |           |       |      |           |       |
| vegetables                     | 02       | 42   | 00     | 42    | 00   | 00        | 00    | 42   | 00        | 42    |
| Nursery raising                | 02       | 42   | 00     | 42    | 00   | 00        | 00    | 42   | 00        | 42    |
| Exotic vegetables              |          |      |        |       |      |           |       |      |           |       |
| Export potential               |          |      |        |       |      |           |       |      |           |       |
| vegetables                     |          |      |        |       |      |           |       |      |           |       |
| Grading and                    |          |      |        |       |      |           |       |      |           |       |
| standardization                |          |      |        |       |      |           |       |      |           |       |
| Protective cultivation         |          |      |        |       |      |           |       |      |           |       |
|                                |          |      |        |       |      |           |       |      |           |       |
| Others (pl specify)            | 02       | 42   | 00     | 42    | 00   | 00        | 00    | 42   | 00        | 42    |
| Total (a)                      | 02       | 42   | 00     | 42    | 00   | 00        | 00    | 42   | 00        | 42    |
| b) Fruits                      |          |      |        |       |      |           |       |      |           |       |
| Training and Pruning           |          |      |        |       |      |           |       |      |           |       |
| Layout and                     |          |      |        |       |      |           |       |      |           |       |
| Management of                  |          |      |        |       |      |           |       |      |           |       |
| Orchards Cyltication of Emit   |          |      |        |       |      |           |       | 1    |           |       |
| Cultivation of Fruit           |          |      |        |       |      |           |       | 1    |           |       |
| Management of                  |          |      |        |       |      |           |       |      |           |       |
| young                          |          |      |        |       |      |           |       |      |           |       |
| plants/orchards                |          |      |        |       |      |           |       |      |           |       |
| Rejuvenation of old            |          |      |        |       |      |           |       |      |           |       |
| orchards                       |          |      |        |       |      |           |       |      |           |       |
| Export potential               |          |      |        |       |      |           |       |      |           |       |

| fruits                              | 1  |    |    |    |     |    | 1    |    |    |    |
|-------------------------------------|----|----|----|----|-----|----|------|----|----|----|
| Micro irrigation                    |    |    |    |    |     |    |      |    |    |    |
| systems of orchards                 |    |    |    |    |     |    |      |    |    |    |
| Plant propagation                   |    |    |    |    |     |    |      |    |    |    |
| techniques                          |    |    |    |    |     |    |      |    |    |    |
| Others (pl specify)                 | 01 | 28 | 00 | 28 | 00  | 00 | 00   | 28 | 00 | 28 |
| Total (b)                           | 01 | 28 | 00 | 28 | 00  | 00 | 00   | 28 | 00 | 28 |
| c) Ornamental                       | UI | 20 | 00 | 20 | 00  | 00 | UU   | 20 | 00 | 20 |
| Plants                              |    |    |    |    |     |    |      |    |    |    |
|                                     |    |    |    |    |     |    |      |    |    |    |
| Nursery Management                  |    |    |    |    |     |    |      |    |    |    |
| Management of                       |    |    |    |    |     |    |      |    |    |    |
| potted plants                       |    |    |    |    |     |    |      |    |    |    |
| Export potential of                 |    |    |    |    |     |    |      |    |    |    |
| ornamental plants                   |    |    |    |    |     |    |      |    |    |    |
| Propagation                         |    |    |    |    |     |    |      |    |    |    |
| techniques of                       |    |    |    |    |     |    |      |    |    |    |
| Ornamental Plants                   |    |    |    |    |     |    |      |    |    |    |
| Others (pl specify)                 |    |    |    |    |     |    |      |    |    |    |
| Total (c)                           |    |    |    |    |     |    |      |    |    |    |
| d) Plantation crops                 |    |    |    |    |     |    |      |    |    |    |
| Production and                      |    |    |    |    |     |    |      |    |    |    |
| Management                          |    |    |    |    |     |    |      |    |    |    |
| technology                          |    |    |    |    |     |    |      |    |    |    |
| Processing and value                |    |    |    |    |     |    |      |    |    |    |
| addition                            |    |    |    |    |     |    |      |    |    |    |
|                                     |    |    |    |    |     |    |      |    |    |    |
| Others (pl specify)                 |    |    |    |    |     |    |      |    |    |    |
| Total (d)                           |    |    |    |    |     |    |      |    |    |    |
| e) Tuber crops                      |    |    |    |    |     |    |      |    |    |    |
| Production and                      |    |    |    |    |     |    |      |    |    |    |
| Management                          |    |    |    |    |     |    |      |    |    |    |
| technology                          | 01 | 30 | 00 | 30 | 00  | 00 | 00   | 30 | 00 | 30 |
| Processing and value                |    |    |    |    |     |    |      |    |    |    |
| addition                            |    |    |    |    |     |    |      |    |    |    |
| Others (pl specify)                 |    |    |    |    |     |    |      |    |    |    |
| Total (e)                           | 01 | 30 | 00 | 30 | 00  | 00 | 00   | 30 | 00 | 30 |
| f) Spices                           |    |    |    |    |     |    |      |    |    |    |
| Production and                      |    |    |    |    |     |    |      |    |    |    |
| Management                          |    |    |    |    |     |    |      |    |    |    |
| technology                          | 02 | 41 | 00 | 41 | 03  | 00 | 03   | 44 | 00 | 44 |
| Processing and value                | 02 |    |    |    |     | 00 | - 00 |    |    |    |
| addition                            |    |    |    |    |     |    |      |    |    |    |
| Others (pl specify)                 |    |    |    |    |     |    |      |    |    |    |
|                                     | 02 | 41 | 00 | 41 | 0.2 | 00 | 02   | 44 | 00 | 44 |
| Total (f)                           | 02 | 41 | 00 | 41 | 03  | 00 | 03   | 44 | 00 | 44 |
| g) Medicinal and<br>Aromatic Plants |    |    |    |    |     |    |      |    |    |    |
|                                     |    |    |    |    |     |    |      |    |    |    |
| Nursery management Production and   |    |    | -  | +  | -   |    |      |    |    |    |
|                                     |    |    |    |    |     |    |      |    |    |    |
| management                          |    |    |    |    |     |    |      |    |    |    |
| technology                          |    |    |    |    |     |    |      |    |    |    |
| Post harvest                        |    |    |    |    |     |    |      |    |    |    |
| technology and value                |    |    |    |    |     |    |      |    |    |    |
| addition                            |    |    |    |    |     |    |      |    |    |    |
| Others (pl specify)                 |    |    |    |    |     |    |      |    |    |    |
| Total (g)                           |    | 1  |    |    |     |    |      |    |    |    |

| GT (a-g)                        | 06 | 141 | 00 | 141 | 03 | 00     | 03 | 144 | 00 | 144 |
|---------------------------------|----|-----|----|-----|----|--------|----|-----|----|-----|
| III Soil Health and             |    |     |    |     |    |        |    |     |    |     |
| Fertility                       |    |     |    |     |    |        |    |     |    |     |
| Management                      |    |     |    |     |    |        |    |     |    |     |
| Soil fertility                  |    |     |    |     |    |        |    |     |    |     |
| management                      |    |     |    |     |    |        |    |     |    |     |
| Integrated water                |    |     |    |     |    |        |    |     |    |     |
| management                      |    |     |    |     |    |        |    |     |    |     |
| Integrated Nutrient             |    |     |    |     |    |        |    |     |    |     |
| Management                      |    |     |    |     |    |        |    |     |    |     |
| Production and use of           |    |     |    |     |    |        |    |     |    |     |
| organic inputs                  |    |     |    |     |    |        |    |     |    |     |
| Management of                   |    |     |    |     |    |        |    |     |    |     |
| Problematic soils               |    |     |    |     |    |        |    |     |    |     |
| Micro nutrient                  |    |     |    |     |    |        |    |     |    |     |
| deficiency in crops             |    |     |    |     |    |        |    |     |    |     |
| Nutrient Use                    |    | T   |    |     | T  | $\top$ |    | T   |    |     |
| Efficiency                      |    |     |    |     |    |        |    |     |    |     |
| Balance use of                  |    |     |    |     |    |        |    |     |    |     |
| fertilizers                     |    |     |    |     |    |        |    |     |    |     |
| Soil and Water                  |    |     |    |     |    |        |    |     |    |     |
| Testing                         | 01 | 32  | 00 | 32  | 00 | 00     | 00 | 32  | 00 | 32  |
| Others (pl specify)             |    |     |    |     |    |        |    |     |    |     |
| Total                           | 01 | 32  | 00 | 32  | 00 | 00     | 00 | 32  | 00 | 32  |
| IV Livestock                    |    |     |    |     |    |        |    |     |    |     |
| Production and                  |    |     |    |     |    |        |    |     |    |     |
| Management                      |    |     |    |     |    |        |    |     |    |     |
| Dairy Management                | 01 | 00  | 28 | 28  | 00 | 00     | 00 | 00  | 28 | 28  |
| Poultry Management              | 02 | 00  | 00 | 00  | 30 | 00     | 30 | 30  | 00 | 30  |
| Piggery Management              | -  |     |    |     |    |        |    |     |    |     |
| Rabbit Management               |    |     |    |     |    |        |    |     |    |     |
| Animal Nutrition                |    |     |    |     |    |        |    |     |    |     |
| Management                      |    |     |    |     |    |        |    |     |    |     |
| Disease Management              | 02 | 74  | 00 | 74  | 02 | 00     | 02 | 76  | 00 | 76  |
| Feed & fodder                   | 02 | , , | 00 | , , | 02 | 00     | 02 | 70  | 00 | 70  |
| technology                      | 02 | 00  | 48 | 48  | 00 | 02     | 02 | 00  | 50 | 50  |
| Production of quality           | 02 | 00  | 70 | 70  | 00 | 02     | 02 | 00  | 50 | 50  |
| animal products                 |    |     |    |     |    |        |    |     |    |     |
| Others (pl specify)             | 01 | 08  | 00 | 08  | 00 | 00     | 00 | 08  | 00 | 08  |
| Total                           | 08 | 82  | 76 | 158 | 32 | 02     | 34 | 114 | 78 | 192 |
| V Home                          | UO | 04  | /0 | 130 | 34 | 04     | 34 | 114 | 10 | 174 |
| Science/Women                   |    |     |    |     |    |        |    |     |    |     |
|                                 |    |     |    |     |    |        |    |     |    |     |
| empowerment<br>Household food   |    |     |    |     |    |        |    |     | +  |     |
|                                 |    |     |    |     |    |        |    |     |    |     |
| security by kitchen             |    |     |    |     |    |        |    |     |    |     |
| gardening and                   | 02 | 00  | 50 | 50  | 00 | 00     | 00 | 00  | 50 | 50  |
| nutrition gardening             | 02 | 00  | 30 | 30  | 00 | 00     | 00 | 00  | 30 | 30  |
| Design and                      |    |     |    |     |    |        |    |     |    |     |
| development of low/minimum cost |    |     |    |     |    |        |    |     |    |     |
|                                 |    |     |    |     |    |        |    |     |    |     |
| diet                            |    |     |    |     |    |        |    |     | +  |     |
| Designing and                   |    |     |    |     |    |        |    |     |    |     |
| development for high            |    |     |    |     |    |        |    |     |    |     |
| nutrient efficiency             |    |     |    |     |    |        |    |     |    |     |

| diet                 |     | 1   |     |          |     |      |      |            |     |            |
|----------------------|-----|-----|-----|----------|-----|------|------|------------|-----|------------|
| Minimization of      |     |     |     |          |     |      |      |            |     |            |
| nutrient loss in     |     |     |     |          |     |      |      |            |     |            |
| processing           | 01  | 00  | 13  | 13       | 00  | 13   | 13   | 00         | 26  | 26         |
| Processing and       | 01  | 0.0 | 10  | - 10     | 0.0 | - 10 | - 10 |            |     |            |
| cooking              |     |     |     |          |     |      |      |            |     |            |
| Gender               |     |     |     |          |     |      |      |            |     |            |
| mainstreaming        |     |     |     |          |     |      |      |            |     |            |
| through SHGs         |     |     |     |          |     |      |      |            |     |            |
|                      |     |     |     |          |     |      |      |            |     |            |
| Storage loss         |     |     |     |          |     |      |      |            |     |            |
| minimization         | 0.1 | 0.0 | 20  | 20       | 0.0 | 0.0  | 0.0  | 0.0        | 20  | 20         |
| techniques           | 01  | 00  | 28  | 28       | 00  | 00   | 00   | 00         | 28  | 28         |
| Value addition       |     |     |     |          |     |      |      |            |     |            |
| Women                |     |     |     |          |     |      |      |            |     |            |
| empowerment          |     |     |     |          |     |      |      |            |     |            |
| Location specific    |     |     |     |          |     |      |      |            |     |            |
| drudgery reduction   |     |     |     |          |     |      |      |            |     |            |
| technologies         |     |     |     |          |     |      |      |            |     |            |
| Rural Crafts         |     |     |     |          |     |      |      |            |     |            |
| Women and child      |     |     |     |          |     |      |      |            |     |            |
| care                 | 02  | 00  | 43  | 463      | 00  | 00   | 00   | 00         | 43  | 43         |
| Others (pl specify)  |     | 0.0 |     |          |     | 0.0  | 0.0  | 0.0        |     |            |
| Total                | 06  | 00  | 134 | 134      | 00  | 13   | 13   | 00         | 147 | 147        |
| VI Agril.            | 00  | 00  | 134 | 134      | 00  | 13   | 13   | 00         | 17/ | 17/        |
| Engineering          |     |     |     |          |     |      |      |            |     |            |
|                      |     |     |     |          |     |      |      |            |     |            |
| Farm Machinary and   |     |     |     |          |     |      |      |            |     |            |
| its maintenance      |     |     |     |          |     |      |      |            |     |            |
| Installation and     |     |     |     |          |     |      |      |            |     |            |
| maintenance of micro |     |     |     |          |     |      |      |            |     |            |
| irrigation systems   |     |     |     |          |     |      |      |            |     |            |
| Use of Plastics in   |     |     |     |          |     |      |      |            |     |            |
| farming practices    |     |     |     |          |     |      |      |            |     |            |
| Production of small  |     |     |     |          |     |      |      |            |     |            |
| tools and implements |     |     |     |          |     |      |      |            |     |            |
| Repair and           |     |     |     |          |     |      |      |            |     |            |
| maintenance of farm  |     |     |     |          |     |      |      |            |     |            |
| machinery and        |     |     |     |          |     |      |      |            |     |            |
| implements           |     |     |     |          |     |      |      |            |     |            |
| Small scale          |     |     |     |          |     |      |      |            |     |            |
| processing and value |     |     |     |          |     |      |      |            |     |            |
| addition             |     |     |     |          |     |      |      |            |     |            |
| Post Harvest         |     |     |     |          |     |      |      |            |     |            |
| Technology           |     |     |     |          |     |      |      |            |     |            |
| Others (pl specify)  |     |     |     |          |     |      |      |            |     |            |
| Total                |     |     |     |          |     |      |      |            |     |            |
| VII Plant Protection |     |     |     |          |     |      |      |            |     |            |
|                      |     |     |     |          |     |      |      |            |     |            |
| Integrated Pest      | 02  |     | 00  | <u> </u> | 0.0 | 00   | 0.0  | 70         | 00  | 72         |
| Management           | 03  | 67  | 00  | 67       | 06  | 00   | 06   | 73         | 00  | 73         |
| Integrated Disease   | ~ ~ |     | 2.0 |          |     |      |      | <b>.</b> . |     | <b>.</b> . |
| Management           | 02  | 52  | 00  | 52       | 02  | 00   | 02   | 54         | 00  | 54         |
| Bio-control of pests |     |     |     |          |     |      |      |            |     |            |
| and diseases         | 01  | 22  | 00  | 22       | 01  | 00   | 01   | 23         | 00  | 23         |
| Production of bio    |     |     |     |          |     |      |      |            |     |            |
| control agents and   |     |     |     |          |     |      |      |            |     |            |
|                      | U   | L   |     |          |     |      |      | _          |     |            |

| bio pesticides                      |     |      |     |     |     |    |     |      |     |       |
|-------------------------------------|-----|------|-----|-----|-----|----|-----|------|-----|-------|
| Others (pl specify)                 | 0.6 | 4.44 | 0.0 |     | 0.0 |    | 0.0 | 4.50 | 0.0 | 4 = 0 |
| Total                               | 06  | 141  | 00  | 141 | 09  | 00 | 09  | 150  | 00  | 150   |
| VIII Fisheries                      |     |      |     |     |     |    |     |      |     |       |
| Integrated fish                     |     |      |     |     |     |    |     |      |     |       |
| farming                             |     |      |     |     |     |    |     |      |     |       |
| Carp breeding and                   |     |      |     |     |     |    |     |      |     |       |
| hatchery                            |     |      |     |     |     |    |     |      |     |       |
| management                          |     |      |     |     |     |    |     |      |     |       |
| Carp fry and                        |     |      |     |     |     |    |     |      |     |       |
| fingerling rearing                  |     |      |     |     |     |    |     |      |     |       |
| Composite fish                      |     |      |     |     |     |    |     |      |     |       |
| culture                             |     |      |     |     |     |    |     |      |     |       |
| Hatchery                            |     |      |     |     |     |    |     |      |     |       |
| management and                      |     |      |     |     |     |    |     |      |     |       |
| culture of freshwater               |     |      |     |     |     |    |     |      |     |       |
| prawn                               |     |      |     |     |     |    |     |      |     |       |
| Breeding and culture                |     |      |     |     |     |    |     |      |     |       |
| of ornamental fishes                |     |      |     |     |     |    |     |      |     |       |
| Portable plastic carp               |     |      |     |     |     |    |     |      |     |       |
| hatchery                            |     |      |     |     |     |    |     |      |     |       |
| Pen culture of fish                 |     |      |     |     |     |    |     |      |     |       |
| and prawn                           |     |      |     |     |     |    |     |      |     |       |
| Shrimp farming                      |     |      |     |     |     |    |     |      |     |       |
| Edible oyster farming               |     |      |     |     |     |    |     |      |     |       |
| Pearl culture                       |     |      |     |     |     |    |     |      |     |       |
| Fish processing and                 |     |      |     |     |     |    |     |      |     |       |
| value addition                      |     |      |     |     |     |    |     |      |     |       |
| Others (pl specify)                 |     |      |     |     |     |    |     |      |     |       |
| Total                               |     |      |     |     |     |    |     |      |     |       |
| IX Production of                    |     |      |     |     |     |    |     |      |     |       |
| Inputs at site                      |     |      |     |     |     |    |     |      |     |       |
| Seed Production                     |     |      |     |     |     |    |     |      |     |       |
| Planting material                   |     |      |     |     |     |    |     |      |     |       |
| production                          |     |      |     |     |     |    |     |      |     |       |
| Bio-agents                          |     |      |     |     |     |    |     |      |     |       |
| production                          |     |      |     |     |     |    |     |      |     |       |
| Bio-pesticides                      |     |      |     |     |     |    |     |      |     |       |
| production                          |     |      |     |     |     |    |     |      |     |       |
| Bio-fertilizer                      |     |      |     |     |     |    |     |      |     |       |
| production                          |     |      |     |     |     |    |     |      |     |       |
| Vermi-compost                       |     |      |     |     |     |    |     |      |     |       |
| production                          |     |      |     |     |     |    |     |      |     |       |
| Organic manures                     |     |      |     |     |     |    |     |      |     |       |
| organic manures                     |     |      |     |     |     |    |     |      |     |       |
| production  Declaration of free and |     |      |     |     |     |    |     |      |     |       |
| Production of fry and               |     |      |     |     |     |    |     |      |     |       |
| fingerlings  Production of Pro-     |     |      |     |     |     |    |     |      |     |       |
| Production of Bee-                  |     |      |     |     |     |    |     |      |     |       |
| colonies and wax                    |     |      |     |     |     |    |     |      |     |       |
| sheets                              |     |      |     |     |     |    |     |      |     |       |
| Small tools and                     |     |      |     |     |     |    |     |      |     |       |
| implements                          |     |      |     |     |     |    |     |      |     |       |
| Production of                       |     |      |     |     |     |    |     |      |     |       |
| livestock feed and                  |     |      |     |     |     |    |     |      |     |       |

| fodder              |    |     |     |     |    |    |    |     |     |     |
|---------------------|----|-----|-----|-----|----|----|----|-----|-----|-----|
| Production of Fish  |    |     |     |     |    |    |    |     |     |     |
| feed                |    |     |     |     |    |    |    |     |     |     |
| Mushroom            |    |     |     |     |    |    |    |     |     |     |
| Production          |    |     |     |     |    |    |    |     |     |     |
| Apiculture          |    |     |     |     |    |    |    |     |     |     |
| Others (pl specify) |    |     |     |     |    |    |    |     |     |     |
| Total               |    |     |     |     |    |    |    |     |     |     |
| 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 (pl specify) |    |     |     |     |    |    |    |     |     |     |
| Total               |    |     |     |     |    |    |    |     |     |     |
| XI Agro-forestry    |    |     |     |     |    |    |    |     |     |     |
| Production          |    |     |     |     |    |    |    |     |     |     |
| technologies        |    |     |     |     |    |    |    |     |     |     |
| Nursery management  |    |     |     |     |    |    |    |     |     |     |
| Integrated Farming  |    |     |     |     |    |    |    |     |     |     |
| Systems             |    |     |     |     |    |    |    |     |     |     |
| Others (pl specify) |    |     |     |     |    |    |    |     |     |     |
| Total               |    |     |     |     |    |    |    |     |     |     |
| GRAND TOTAL         | 33 | 514 | 210 | 724 | 47 | 15 | 62 | 561 | 225 | 786 |

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

| Thematic area                        | No. of  |      |        |       | P                                     | articipan | ts    |      |           |       |
|--------------------------------------|---------|------|--------|-------|---------------------------------------|-----------|-------|------|-----------|-------|
|                                      | courses |      | Others |       |                                       | SC/ST     |       | (    | Frand Tot | al    |
|                                      |         | Male | Female | Total | Male                                  | Female    | Total | Male | Female    | Total |
| I Crop Production                    |         |      |        |       |                                       |           |       |      |           |       |
| Weed Management                      | 02      | 31   | 00     | 31    | 01                                    | 00        | 01    | 32   | 00        | 32    |
| Resource                             |         |      |        |       |                                       |           |       |      |           |       |
| Conservation                         |         |      |        |       |                                       |           |       |      |           |       |
| Technologies                         |         |      |        |       |                                       |           |       |      |           |       |
| Cropping Systems                     |         |      |        |       |                                       |           |       |      |           |       |
| Crop Diversification                 |         |      |        |       |                                       |           |       |      |           |       |
| Integrated Farming                   |         |      |        |       |                                       |           |       |      |           |       |
| Micro                                |         |      |        |       |                                       |           |       |      |           |       |
| Irrigation/irrigation                | 01      | 25   | 00     | 25    | 00                                    | 00        | 00    | 25   | 00        | 25    |
| Seed production                      |         |      |        |       |                                       |           |       |      |           |       |
| Nursery management                   |         |      |        |       |                                       |           |       |      |           |       |
| Integrated Crop                      |         |      |        |       |                                       |           |       |      |           |       |
| Management                           | 05      | 128  | 00     | 128   | 03                                    | 00        | 03    | 131  | 00        | 131   |
| Soil & water                         |         |      |        |       |                                       |           |       |      |           |       |
| conservatioin                        |         |      |        |       |                                       |           |       |      |           |       |
| Integrated nutrient                  |         |      |        |       |                                       |           |       |      |           |       |
| management                           | 04      | 94   | 00     | 94    | 02                                    | 00        | 02    | 96   | 00        | 96    |
| Production of organic                |         |      |        |       |                                       |           |       |      |           |       |
| inputs                               | 01      | 14   | 00     | 14    | 01                                    | 00        | 01    | 15   | 00        | 15    |
| Others (pl specify)                  | 01      | 18   | 00     | 18    | 00                                    | 00        | 00    | 18   | 00        | 18    |
| Total                                | 14      | 310  | 00     | 310   | 07                                    | 00        | 07    | 317  | 00        | 317   |
| II Horticulture                      |         | 010  |        | 020   | , , , , , , , , , , , , , , , , , , , |           | 0.    | 02.  |           | 02.   |
| a) Vegetable Crops                   |         |      |        |       |                                       |           |       |      |           |       |
| Production of low                    |         |      |        |       |                                       |           |       |      |           |       |
| value and high                       |         |      |        |       |                                       |           |       |      |           |       |
| valume crops                         |         |      |        |       |                                       |           |       |      |           |       |
| Off-season                           |         |      |        |       |                                       |           |       |      |           |       |
| vegetables                           |         |      |        |       |                                       |           |       |      |           |       |
| Nursery raising                      | 03      | 62   | 00     | 62    | 00                                    | 00        | 00    | 62   | 00        | 62    |
| Exotic vegetables                    | 0.5     | 02   | - 00   | 02    | 00                                    | 00        |       | 02   |           | 02    |
| Export potential                     |         |      |        |       |                                       |           |       |      |           |       |
| vegetables                           |         |      |        |       |                                       |           |       |      |           |       |
| Grading and                          |         |      |        |       |                                       |           |       |      |           |       |
| standardization                      |         |      |        |       |                                       |           |       |      |           |       |
| Protective cultivation               |         |      |        |       |                                       |           |       |      |           |       |
| Others (pl specify)                  |         |      |        |       |                                       |           |       |      |           |       |
| Total (a)                            | 03      | 62   | 00     | 62    | 00                                    | 00        | 00    | 62   | 00        | 62    |
| b) Fruits                            | 03      | 02   | 00     | 02    | 00                                    | 00        | 00    | 02   | 00        | 02    |
| Training and Pruning                 |         |      |        |       |                                       |           |       |      |           |       |
| Layout and                           |         |      |        |       |                                       |           |       |      |           |       |
| Management of                        |         |      |        |       |                                       |           |       |      |           |       |
| Orchards                             |         |      |        |       |                                       |           |       |      |           |       |
| Cultivation of Fruit                 |         |      |        |       |                                       |           |       |      |           |       |
|                                      |         |      |        |       |                                       |           |       |      |           |       |
| Management of                        |         |      |        |       |                                       |           |       |      |           |       |
| young plants/orchards                |         |      |        |       |                                       |           |       |      |           |       |
| plants/orchards  Painyapation of old |         |      |        |       |                                       |           |       |      |           |       |
| Rejuvenation of old orchards         |         |      |        |       |                                       |           |       |      |           |       |
| orcharus                             |         |      |        |       |                                       |           |       |      |           |       |

| Export potential   |    |     | Ĭ  |     |    |    |    |     |    |     |
|--|----|-----|----|-----|----|----|----|-----|----|-----|
| fruits   |    |     |    |     |    |    |    |     |    |     |
| Micro irrigation   |    |     |    |     |    |    |    |     |    |     |
| systems of orchards  |    |     |    |     |    |    |    |     |    |     |
| Plant propagation  |    |     |    |     |    |    |    |     |    |     |
| techniques   | 01 | 28  | 00 | 28  | 00 | 00 | 00 | 28  | 00 | 28  |
| Others (pl specify)  | 01 | 28  | 00 | 28  | 00 | 00 | 00 | 28  | 00 | 28  |
| Total (b)  | 01 | 20  | 00 | 20  | 00 | 00 | 00 | 20  | 00 | 20  |
| c) Ornamental  |    | +   |    |     |    |    |    |     |    |     |
|  |    |     |    |     |    |    |    |     |    |     |
| Plants   |    |     |    |     |    |    |    |     |    |     |
| Nursery Management   |    |     |    |     |    |    |    |     |    |     |
| Management of  |    |     |    |     |    |    |    |     |    |     |
| potted plants  |    |     |    |     |    |    |    |     |    |     |
| Export potential of  |    |     |    |     |    |    |    |     |    |     |
| ornamental plants  |    |     |    |     |    |    |    |     |    |     |
| Propagation  |    |     |    |     |    |    |    |     |    |     |
| techniques of  |    |     |    |     |    |    |    |     |    |     |
| Ornamental Plants  |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)  |    |     |    |     |    |    |    |     |    |     |
| Total (c)  |    |     |    |     |    |    |    |     |    |     |
| d) Plantation crops  |    |     |    |     |    |    |    |     |    |     |
| Production and   |    |     |    |     |    |    |    |     |    |     |
| Management   |    |     |    |     |    |    |    |     |    |     |
| technology   |    |     |    |     |    |    |    |     |    |     |
| Processing and value   |    |     |    |     |    |    |    |     |    |     |
| addition   |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)  |    |     |    |     |    |    |    |     |    |     |
| Total (d)  |    |     |    |     |    |    |    |     |    |     |
| ` '  |    |     |    |     |    |    |    |     |    |     |
| e) Tuber crops Production and  |    |     |    |     |    |    |    |     |    |     |
|  |    |     |    |     |    |    |    |     |    |     |
| Management   | 01 | 20  | 00 | 20  | 00 | 00 | 00 | 20  | 00 | 20  |
| technology   | 01 | 30  | 00 | 30  | 00 | 00 | 00 | 30  | 00 | 30  |
| Processing and value   |    |     |    |     |    |    |    |     |    |     |
| addition   |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)  |    |     |    |     |    |    |    |     |    |     |
| Total (e)  | 01 | 30  | 00 | 30  | 00 | 00 | 00 | 30  | 00 | 30  |
| f) Spices  |    |     |    |     |    |    |    |     |    |     |
| Production and   |    |     |    |     |    |    |    |     |    |     |
| Management   |    |     |    |     |    |    |    |     |    |     |
| technology   | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| Processing and value   |    |     |    |     |    |    |    |     |    |     |
| addition   |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)  |    |     |    |     |    |    |    |     |    |     |
| Total (f)  |    |     |    |     |    |    |    |     |    |     |
|  | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| ` '  | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and   | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and<br>Aromatic Plants  | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and Aromatic Plants Nursery management  | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and Aromatic Plants Nursery management Production and                                       | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and Aromatic Plants  Nursery management  Production and management                          | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and Aromatic Plants Nursery management Production and management technology                 | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and Aromatic Plants  Nursery management  Production and management technology  Post harvest | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |
| g) Medicinal and Aromatic Plants Nursery management Production and management technology                 | 05 | 113 | 00 | 113 | 05 | 00 | 05 | 118 | 00 | 118 |

| Total (g)                  |    |     |     |     |    |      |    |     |     |      |
|----------------------------|----|-----|-----|-----|----|------|----|-----|-----|------|
| GT (a-g)                   | 10 | 233 | 00  | 233 | 05 | 00   | 05 | 238 | 00  | 238  |
| III Soil Health and        |    |     |     |     |    |      |    |     |     |      |
| Fertility                  |    |     |     |     |    |      |    |     |     |      |
| Management                 |    |     |     |     |    |      |    |     |     |      |
| Soil fertility             |    |     |     |     |    |      |    |     |     |      |
| management                 | 01 | 20  | 00  | 20  | 00 | 00   | 00 | 20  | 00  | 20   |
| Integrated water           |    |     |     |     |    |      |    |     |     |      |
| management                 |    |     |     |     |    |      |    |     |     |      |
| Integrated Nutrient        |    |     |     |     |    |      |    |     |     |      |
| Management                 |    |     |     |     |    |      |    |     |     |      |
| Production and use of      |    |     |     |     |    |      |    |     |     |      |
| organic inputs             |    |     |     |     |    |      |    |     |     |      |
| Management of              |    |     |     |     |    |      |    |     |     |      |
| Problematic soils          |    |     |     |     |    |      |    |     |     |      |
| Micro nutrient             |    |     |     |     |    |      |    |     |     |      |
| deficiency in crops        |    |     |     |     |    |      |    |     |     |      |
| Nutrient Use               |    |     |     |     |    |      |    |     |     |      |
| Efficiency                 |    |     |     |     |    |      |    |     |     |      |
| Balance use of             |    |     |     |     |    |      |    |     |     |      |
| fertilizers                |    |     |     |     |    |      |    |     |     |      |
| Soil and Water             |    |     |     |     |    |      |    |     |     |      |
| Testing                    | 01 | 32  | 00  | 32  | 00 | 00   | 00 | 32  | 00  | 32   |
| Others (pl specify)        | 01 | 32  | 00  |     | 00 |      | 00 | 32  | 00  | - 52 |
| Total                      | 02 | 52  | 00  | 52  | 00 | 00   | 00 | 52  | 00  | 52   |
| IV Livestock               | 02 |     | 00  | 32  | 00 | - 00 | 00 | 32  | 00  | - 32 |
| Production and             |    |     |     |     |    |      |    |     |     |      |
| Management                 |    |     |     |     |    |      |    |     |     |      |
| Dairy Management           | 01 | 00  | 28  | 28  | 00 | 00   | 00 | 00  | 28  | 28   |
| Poultry Management         | 02 | 00  | 00  | 00  | 30 | 00   | 30 | 30  | 00  | 30   |
| Piggery Management         | 02 | 00  | 00  | 00  | 50 | 00   | 30 | 30  | 00  | 30   |
| Rabbit Management          |    |     |     |     |    |      |    |     |     |      |
| Animal Nutrition           |    |     |     |     |    |      |    |     |     |      |
| Management                 |    |     |     |     |    |      |    |     |     |      |
| Disease Management         | 03 | 74  | 19  | 93  | 02 | 01   | 03 | 76  | 20  | 96   |
| Feed & fodder              | 03 | 74  | 19  | 93  | 02 | 01   | 03 | 70  | 20  | 90   |
| technology                 | 05 | 19  | 83  | 102 | 02 | 06   | 08 | 21  | 89  | 110  |
| Production of quality      | 03 | 19  | 63  | 102 | 02 | 00   | 08 | 21  | 09  | 110  |
| animal products            |    |     |     |     |    |      |    |     |     |      |
| Others (pl specify)        | 01 | 08  | 00  | 08  | 00 | 00   | 00 | 08  | 00  | 08   |
| Total                      | 12 | 101 | 130 | 231 | 34 | 07   | 41 | 135 | 137 | 272  |
| 272V Home                  | 12 | 101 | 130 | 231 | 34 | 07   | 41 | 135 | 137 | 212  |
| Science/Women              |    |     |     |     |    |      |    |     |     |      |
|                            |    |     |     |     |    |      |    |     |     |      |
| empowerment Household food |    |     |     |     |    |      |    |     |     |      |
|                            |    |     |     |     |    |      |    |     |     |      |
| security by kitchen        |    |     |     |     |    |      |    |     |     |      |
| gardening and              | 02 | 00  | 50  | 50  | 00 | 00   | 00 | 00  | 50  | 50   |
| nutrition gardening        | 02 | 00  | 50  | 50  | 00 | 00   | 00 | 00  | 50  | 50   |
| Design and                 |    |     |     |     |    |      |    |     |     |      |
| development of             |    |     |     |     |    |      |    |     |     |      |
| low/minimum cost           |    |     |     |     |    |      |    |     |     |      |
| diet Designation and       |    |     |     |     |    |      |    |     |     |      |
| Designing and              |    |     |     |     |    |      |    |     |     |      |
| development for high       |    |     |     |     |    |      |    |     |     |      |

| nutrient efficiency<br>diet    |     |     |     |            |     |    |     |     |     |     |
|--------------------------------|-----|-----|-----|------------|-----|----|-----|-----|-----|-----|
| Minimization of                |     |     |     |            |     |    |     |     |     |     |
| nutrient loss in               |     |     |     |            |     |    |     |     |     |     |
| processing                     | 01  | 00  | 13  | 13         | 00  | 13 | 13  | 00  | 26  | 26  |
| Processing and                 | 01  | 00  | 1,3 | 13         | 00  | 13 | 13  | 00  | 20  | 20  |
|                                |     |     |     |            |     |    |     |     |     |     |
| cooking<br>Gender              |     |     |     |            |     |    |     |     |     |     |
|                                |     |     |     |            |     |    |     |     |     |     |
| mainstreaming                  |     |     |     |            |     |    |     |     |     |     |
| through SHGs                   |     |     |     |            |     |    |     |     |     |     |
| Storage loss                   |     |     |     |            |     |    |     |     |     |     |
| minimization                   | 0.1 | 00  | 20  | 20         | 00  | 00 | 00  | 00  | 20  | 20  |
| techniques                     | 01  | 00  | 28  | 28         | 00  | 00 | 00  | 00  | 28  | 28  |
| Value addition                 | 05  | 00  | 139 | 139        | 00  | 00 | 00  | 00  | 139 | 139 |
| Women                          |     |     |     |            |     |    |     |     |     |     |
| empowerment                    |     |     |     |            |     |    |     |     |     |     |
| Location specific              |     |     |     |            |     |    |     |     |     |     |
| drudgery reduction             |     |     |     |            |     |    |     |     |     |     |
| technologies                   |     |     |     |            |     |    |     |     |     |     |
| Rural Crafts                   |     |     |     |            |     |    |     |     |     |     |
| Women and child                |     |     |     |            |     |    |     |     |     |     |
| care                           | 02  | 00  | 43  | 43         | 00  | 00 | 00  | 00  | 43  | 43  |
| Others (pl specify)            |     |     |     |            |     |    |     |     |     |     |
| Total                          | 11  | 00  | 273 | 273        | 00  | 13 | 13  | 00  | 286 | 286 |
| VI Agril.                      |     |     |     |            |     |    |     |     |     |     |
| Engineering                    |     |     |     |            |     |    |     |     |     |     |
| Farm Machinery and             |     |     |     |            |     |    |     |     |     |     |
| its maintenance                |     |     |     |            |     |    |     |     |     |     |
| Installation and               |     |     |     |            |     |    |     |     |     |     |
| maintenance of micro           |     |     |     |            |     |    |     |     |     |     |
| irrigation systems             |     |     |     |            |     |    |     |     |     |     |
| Use of Plastics in             |     |     |     |            |     |    |     |     |     |     |
| farming practices              |     |     |     |            |     |    |     |     |     |     |
| Production of small            |     |     |     |            |     |    |     |     |     |     |
| tools and implements           |     |     |     |            |     |    |     |     |     |     |
| Repair and                     |     |     |     |            |     |    |     |     |     |     |
| maintenance of farm            |     |     |     |            |     |    |     |     |     |     |
| machinery and                  |     |     |     |            |     |    |     |     |     |     |
| implements                     |     |     |     |            |     |    |     |     |     |     |
| Small scale                    |     |     |     |            |     |    |     |     |     |     |
| processing and value           |     |     |     |            |     |    |     |     |     |     |
| addition                       |     |     |     |            |     |    |     |     |     |     |
| Post Harvest                   |     |     |     |            |     |    |     |     |     |     |
| Technology                     |     |     |     |            |     |    |     |     |     |     |
| Others (pl specify)            |     |     |     |            |     |    |     |     |     |     |
| Total                          |     |     |     |            |     |    |     |     |     |     |
| VII Plant Protection           |     |     |     |            |     |    |     |     |     |     |
|                                |     |     |     |            |     |    |     |     |     |     |
| Integrated Pest                | 00  | 107 | 00  | 107        | 1 1 | 00 | 11  | 100 | 00  | 100 |
| Management Late grated Disease | 08  | 187 | 00  | 187        | 11  | 00 | 11  | 198 | 00  | 198 |
| Integrated Disease             | 0.5 | 110 | 00  | 110        | 0.0 | 00 | 0.0 | 104 | 00  | 104 |
| Management                     | 05  | 118 | 00  | 118        | 06  | 00 | 06  | 124 | 00  | 124 |
| Bio-control of pests           |     |     |     | <b>.</b> - | ~ - |    |     |     |     |     |
| and diseases                   | 01  | 22  | 00  | 22         | 01  | 00 | 01  | 23  | 00  | 23  |
| Production of bio              |     |     |     |            |     |    |     |     |     |     |

| control agents and    |    |     |    |     |    |    |    |     |    |     |
|-----------------------|----|-----|----|-----|----|----|----|-----|----|-----|
| bio pesticides        |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)   |    |     |    |     |    |    |    |     |    |     |
| Total                 | 14 | 327 | 00 | 327 | 18 | 00 | 18 | 345 | 00 | 345 |
| VIII Fisheries        |    |     |    |     |    |    |    |     |    |     |
| Integrated fish       |    |     |    |     |    |    |    |     |    |     |
| farming               |    |     |    |     |    |    |    |     |    |     |
| Carp breeding and     |    |     |    |     |    |    |    |     |    |     |
| hatchery              |    |     |    |     |    |    |    |     |    |     |
| management            |    |     |    |     |    |    |    |     |    |     |
| Carp fry and          |    |     |    |     |    |    |    |     |    |     |
| fingerling rearing    |    |     |    |     |    |    |    |     |    |     |
| Composite fish        |    |     |    |     |    |    |    |     |    |     |
| culture               |    |     |    |     |    |    |    |     |    |     |
| Hatchery              |    |     |    |     |    |    |    |     |    |     |
| management and        |    |     |    |     |    |    |    |     |    |     |
| culture of freshwater |    |     |    |     |    |    |    |     |    |     |
| prawn                 |    |     |    |     |    |    |    |     |    |     |
| Breeding and culture  |    |     |    |     |    |    |    |     |    |     |
| of ornamental fishes  |    |     |    |     |    |    |    |     |    |     |
| Portable plastic carp |    |     |    |     |    |    |    |     |    |     |
| hatchery              |    |     |    |     |    |    |    |     |    |     |
| Pen culture of fish   |    |     |    |     |    |    |    |     |    |     |
| and prawn             |    |     |    |     |    |    |    |     |    |     |
| Shrimp farming        |    |     |    |     |    |    |    |     |    |     |
| Edible oyster farming |    |     |    |     |    |    |    |     |    |     |
| Pearl culture         |    |     |    |     |    |    |    |     |    |     |
| Fish processing and   |    |     |    |     |    |    |    |     |    |     |
| value addition        |    |     |    |     |    |    |    |     |    |     |
| Others (pl specify)   |    |     |    |     |    |    |    |     |    |     |
| Total                 |    |     |    |     |    |    |    |     |    |     |
| IX Production of      |    |     |    |     |    |    |    |     |    |     |
| Inputs at site        |    |     |    |     |    |    |    |     |    |     |
| Seed Production       |    |     |    |     |    |    |    |     |    |     |
| Planting material     |    |     |    |     |    |    |    |     |    |     |
| production            |    |     |    |     |    |    |    |     |    |     |
| Bio-agents            |    |     |    |     |    |    |    |     |    |     |
| production            |    |     |    |     |    |    |    |     |    |     |
| 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  |    | ĺ    |     |      |    |    |    |      |     |      |
|---------------------|----|------|-----|------|----|----|----|------|-----|------|
| fodder              |    |      |     |      |    |    |    |      |     |      |
| Production of Fish  |    |      |     |      |    |    |    |      |     |      |
| feed                |    |      |     |      |    |    |    |      |     |      |
| Mushroom            |    |      |     |      |    |    |    |      |     |      |
| Production          |    |      |     |      |    |    |    |      |     |      |
| Apiculture          |    |      |     |      |    |    |    |      |     |      |
| Others (pl specify) |    |      |     |      |    |    |    |      |     |      |
| Total               |    |      |     |      |    |    |    |      |     |      |
| X CapacityBuilding  |    |      |     |      |    |    |    |      |     |      |
| 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 (pl specify) |    |      |     |      |    |    |    |      |     |      |
| Total               |    |      |     |      |    |    |    |      |     |      |
| XI Agro-forestry    |    |      |     |      |    |    |    |      |     |      |
| Production          |    |      |     |      |    |    |    |      |     |      |
| technologies        |    |      |     |      |    |    |    |      |     |      |
| Nursery management  |    |      |     |      |    |    |    |      |     |      |
| Integrated Farming  |    |      |     |      |    |    |    |      |     |      |
| Systems             |    |      |     |      |    |    |    |      |     |      |
| Others (pl specify) |    |      |     |      |    |    |    |      |     |      |
| Total               |    |      |     |      |    |    |    |      |     |      |
| GRAND TOTAL         | 63 | 1023 | 403 | 1426 | 64 | 20 | 84 | 1087 | 423 | 1510 |

# Training for Rural Youths including sponsored training programmes (On campus)

|                         |             |      |         |       | No. of Participants |         |       |          |          |       |  |
|-------------------------|-------------|------|---------|-------|---------------------|---------|-------|----------|----------|-------|--|
|                         | No. of      |      | General |       | NO. 01              | SC/ST   | ints  | -        | Grand To | tal   |  |
| Area of training        | Course<br>s | Male | Femal e | Total | Male                | Femal e | Total | Mal<br>e | Femal e  | Total |  |
| Nursery Management      |             |      |         |       |                     |         |       |          |          |       |  |
| of Horticulture crops   |             |      |         |       |                     |         |       |          |          |       |  |
| Training and pruning    |             |      |         |       |                     |         |       |          |          |       |  |
| of orchards             |             |      |         |       |                     |         |       |          |          |       |  |
| Protected cultivation   |             |      |         |       |                     |         |       |          |          |       |  |
| of vegetable crops      |             |      |         |       |                     |         |       |          |          |       |  |
| Commercial fruit        |             |      |         |       |                     |         |       |          |          |       |  |
| production              |             |      |         |       |                     |         |       |          |          |       |  |
| Integrated farming      |             |      |         |       |                     |         |       |          |          |       |  |
| Seed production         |             |      |         |       |                     |         |       |          |          |       |  |
| Production of organic   |             |      |         |       |                     |         |       |          |          |       |  |
| inputs                  |             |      |         |       |                     |         |       |          |          |       |  |
| Planting material       |             |      |         |       |                     |         |       |          |          |       |  |
| production              |             |      |         |       |                     |         |       |          |          |       |  |
| Vermi-culture           |             |      |         |       |                     |         |       |          |          |       |  |
| Mushroom Production     |             |      |         |       |                     |         |       |          |          |       |  |
| Bee-keeping             |             |      |         |       |                     |         |       |          |          |       |  |
| Sericulture             |             |      |         |       |                     |         |       |          |          |       |  |
| Repair and              |             |      |         |       |                     |         |       |          |          |       |  |
| maintenance of farm     |             |      |         |       |                     |         |       |          |          |       |  |
| machinery and           |             |      |         |       |                     |         |       |          |          |       |  |
| implements              |             |      |         |       |                     |         |       |          |          |       |  |
| Value addition          |             |      |         |       |                     |         |       |          |          |       |  |
| Small scale processing  |             |      |         |       |                     |         |       |          |          |       |  |
| Post Harvest            |             |      |         |       |                     |         |       |          |          |       |  |
| Technology              |             |      |         |       |                     |         |       |          |          |       |  |
| Tailoring and Stitching |             |      |         |       |                     |         |       |          |          |       |  |
| Rural Crafts            |             |      |         |       |                     |         |       |          |          |       |  |
| Production of quality   |             |      |         |       |                     |         |       |          |          |       |  |
| animal products         |             |      |         |       |                     |         |       |          |          |       |  |
| Dairying                |             |      |         |       |                     |         |       |          |          |       |  |
| Sheep and goat rearing  |             |      |         |       |                     |         |       |          |          |       |  |
| Quail farming           |             |      |         |       |                     |         |       |          |          |       |  |
| Piggery                 |             |      |         |       |                     |         |       |          |          |       |  |
| Rabbit farming          |             |      |         |       |                     |         |       |          |          |       |  |
| Poultry production      |             |      |         |       |                     |         |       |          |          |       |  |
| Ornamental fisheries    |             |      |         |       |                     |         |       |          |          |       |  |
| Composite fish culture  |             |      |         |       |                     |         |       |          |          |       |  |
| Freshwater prawn        |             |      |         |       |                     |         |       |          |          |       |  |
| culture                 |             |      |         |       |                     |         |       |          |          |       |  |
| Shrimp farming          |             |      |         |       |                     |         |       |          |          |       |  |
| Pearl culture           |             |      |         |       |                     |         |       |          |          |       |  |
| Cold water fisheries    |             |      |         |       |                     |         |       |          |          |       |  |
| Fish harvest and        |             |      |         |       |                     |         |       |          |          |       |  |
| processing technology   |             |      |         |       |                     |         |       |          |          |       |  |
| Fry and fingerling      |             |      |         |       |                     |         |       |          |          |       |  |
| rearing                 |             |      |         |       |                     |         |       |          |          |       |  |
| Any other (pl.specify)  |             |      |         |       |                     |         |       |          |          |       |  |
| TOTAL                   |             |      |         |       |                     |         |       |          |          |       |  |

# Training for Rural Youths including sponsored training programmes (Off campus)

|                         | <b>3.</b> 7 0    |      |            |       | No. of | Participa  | nts   |          |            |       |  |
|-------------------------|------------------|------|------------|-------|--------|------------|-------|----------|------------|-------|--|
| Area of training        | No. of<br>Course |      | General    |       |        | SC/ST      |       | G        | Frand To   | tal   |  |
| Area of training        | s                | Male | Femal<br>e | Total | Male   | Femal<br>e | Total | Mal<br>e | Femal<br>e | Total |  |
| Nursery Management      |                  |      |            |       |        |            |       |          |            |       |  |
| of Horticulture crops   |                  |      |            |       |        |            |       |          |            |       |  |
| Training and pruning    |                  |      |            |       |        |            |       |          |            |       |  |
| of orchards             |                  |      |            |       |        |            |       |          |            |       |  |
| Protected cultivation   |                  |      |            |       |        |            |       |          |            |       |  |
| of vegetable crops      |                  |      |            |       |        |            |       |          |            |       |  |
| Commercial fruit        |                  |      |            |       |        |            |       |          |            |       |  |
| production              |                  |      |            |       |        |            |       |          |            |       |  |
| Integrated farming      |                  |      |            |       |        |            |       |          |            |       |  |
| Seed production         |                  |      |            |       |        |            |       |          |            |       |  |
| Production of organic   |                  |      |            |       |        |            |       |          |            |       |  |
| inputs                  |                  |      |            |       |        |            |       |          |            |       |  |
| Planting material       |                  |      |            |       |        |            |       |          |            |       |  |
| production              |                  |      |            |       |        |            |       |          |            |       |  |
| Vermi-culture           |                  |      |            |       |        |            |       |          |            |       |  |
| Mushroom Production     |                  |      |            |       |        |            |       |          |            |       |  |
| Bee-keeping             |                  |      |            |       |        |            |       |          |            |       |  |
| Sericulture             |                  |      |            |       |        |            |       |          |            |       |  |
| Repair and              |                  |      |            |       |        |            |       |          |            |       |  |
| maintenance of farm     |                  |      |            |       |        |            |       |          |            |       |  |
| machinery and           |                  |      |            |       |        |            |       |          |            |       |  |
| implements              |                  |      |            |       |        |            |       |          |            |       |  |
| Value addition          |                  |      |            |       |        |            |       |          |            |       |  |
| Small scale processing  |                  |      |            |       |        |            |       |          |            |       |  |
| Post Harvest            |                  |      |            |       |        |            |       |          |            |       |  |
| Technology              |                  |      |            |       |        |            |       |          |            |       |  |
| Tailoring and Stitching |                  |      |            |       |        |            |       |          |            |       |  |
| Rural Crafts            |                  |      |            |       |        |            |       |          |            |       |  |
| Production of quality   |                  |      |            |       |        |            |       |          |            |       |  |
| animal products         |                  |      |            |       |        |            |       |          |            |       |  |
| Dairying                |                  |      |            |       |        |            |       |          |            |       |  |
| Sheep and goat rearing  |                  |      |            |       |        |            |       |          |            |       |  |
| Quail farming           |                  |      |            |       |        |            |       |          |            |       |  |
| Piggery                 |                  |      |            |       |        |            |       |          |            |       |  |
| Rabbit farming          |                  |      |            |       |        |            |       |          |            |       |  |
| Poultry production      |                  |      |            |       |        |            |       |          |            |       |  |
| Ornamental fisheries    |                  |      |            |       |        |            |       |          |            |       |  |
| Composite fish culture  |                  |      |            |       |        |            |       |          |            |       |  |
| Freshwater prawn        |                  |      |            |       |        |            |       |          |            |       |  |
| culture                 |                  |      |            |       |        |            |       |          |            |       |  |
| Shrimp farming          |                  |      |            |       |        |            |       |          |            |       |  |
| Pearl culture           |                  |      |            |       |        |            |       |          |            |       |  |
| Cold water fisheries    |                  |      |            |       |        |            |       |          |            |       |  |
| Fish harvest and        |                  |      |            |       | 1      |            |       |          |            |       |  |
| processing technology   |                  |      |            |       |        |            |       |          |            |       |  |
| Fry and fingerling      |                  |      |            |       |        |            |       |          |            |       |  |
| rearing                 |                  |      |            |       |        |            |       |          |            |       |  |
| Any other (pl.specify)  |                  |      |            |       | 1      |            |       |          |            |       |  |
| TOTAL                   |                  |      |            |       |        |            |       |          |            | †     |  |
| 101/11                  |                  |      | 1          | I     | l      | I          | l     | l        | L          | L     |  |

# $\label{eq:consolidated} Training \ for \ Rural \ Youths \ including \ sponsored \ training \ programmes - CONSOLIDATED \ (On + Off \ campus)$

|                        | No of           |      |         | ľ     | No. of | Particip | ants |             |     |     |  |
|------------------------|-----------------|------|---------|-------|--------|----------|------|-------------|-----|-----|--|
| Area of training       | No. of<br>Cours | (    | General |       |        | SC/ST    |      | Grand Total |     |     |  |
| Area of training       | es              | Male | Fem     | Total | Mal    | Fem      | Tota | Ma          | Fem | Tot |  |
|                        |                 |      | ale     |       | e      | ale      | I    | le          | ale | al  |  |
| Nursery Management     |                 |      |         |       |        |          |      |             |     |     |  |
| of Horticulture crops  |                 |      |         |       |        |          |      |             |     |     |  |
| Fish harvest and       |                 |      |         |       |        |          |      |             |     |     |  |
| processing technology  |                 |      |         |       |        |          |      |             |     |     |  |
| Fry and fingerling     |                 |      |         |       |        |          |      |             |     |     |  |
| rearing                |                 |      |         |       |        |          |      |             |     |     |  |
| Any other (pl.specify) |                 |      |         |       |        |          |      |             |     |     |  |
| TOTAL                  |                 |      |         |       |        |          |      |             |     |     |  |

## **Training programmes for Extension Personnel including sponsored training (on campus)**

|   | No.  |    |        |     | No. of | Partic | ipants | 3  |        |     |
|---|------|----|--------|-----|--------|--------|--------|----|--------|-----|
| Area of training                        | of   | (  | Genera | l   |        | SC/ST  |        | Gr | and To | tal |
| Area of training                        | Cour | Ma | Fem    | Tot | Ma     | Fem    | Tot    | Ma | Fem    | Tot |
|   | ses  | le | ale    | al  | le     | ale    | al     | le | ale    | al  |
| Productivity enhancement in field crops |      |    |        |     |        |        |        |    |        |     |
| Integrated Pest Management              |      |    |        |     |        |        |        |    |        |     |
| Integrated Nutrient management          |      |    |        |     |        |        |        |    |        |     |
| Rejuvenation of old orchards            |      |    |        |     |        |        |        |    |        |     |
| Protected cultivation technology        |      |    |        |     |        |        |        |    |        |     |
| Production and use of organic inputs    |      |    |        |     |        |        |        |    |        |     |
| Care and maintenance of farm            |      |    |        |     |        |        |        |    |        |     |
| machinery and implements                |      |    |        |     |        |        |        |    |        |     |
| Gender mainstreaming through SHGs       |      |    |        |     |        |        |        |    |        |     |
| Formation and Management of SHGs        |      |    |        |     |        |        |        |    |        |     |
| Women and Child care                    |      |    |        |     |        |        |        |    |        |     |
| Low cost and nutrient efficient diet    |      |    |        |     |        |        |        |    |        |     |
| designing                               |      |    |        |     |        |        |        |    |        |     |
| Group Dynamics and farmers              |      |    |        |     |        |        |        |    |        |     |
| organization                            |      |    |        |     |        |        |        |    |        |     |
| Information networking among farmers    |      |    |        |     |        |        |        |    |        |     |
| Capacity building for ICT application   |      |    |        |     |        |        |        |    |        |     |
| Management in farm animals              | 01   | 12 | 00     | 12  | 03     | 00     | 03     | 15 | 00     | 15  |
| Livestock feed and fodder production    | 01   | 00 | 17     | 17  | 00     | 13     | 13     | 00 | 30     | 30  |
| Household food security                 |      |    |        |     |        |        |        |    |        |     |
| Any other (pl.specify)                  |      |    |        |     |        |        |        |    |        |     |
| TOTAL                                   | 02   | 12 | 17     | 29  | 03     | 13     | 16     | 15 | 30     | 45  |

## **Training programmes for Extension Personnel including sponsored training (off campus)**

|                             | No. of |     |         |     | No. o | f Partici | pants |     |         |     |
|-----------------------------|--------|-----|---------|-----|-------|-----------|-------|-----|---------|-----|
| Area of training            | Cours  |     | General |     |       | SC/ST     |       | G   | rand To | tal |
| Area of training            | es     | Mal | Fema    | Tot | Mal   | Fema      | Tot   | Mal | Fema    | Tot |
|                             | CB     | e   | le      | al  | e     | le        | al    | e   | le      | al  |
| Productivity enhancement in | 01     | 23  | 04      | 27  | 26    | 04        | 30    | 49  | 08      | 57  |
| field crops                 | 01     | 23  | 04      | 21  | 20    | 04        | 30    | 49  | 08      | 37  |
| Integrated Pest Management  | 01     | 22  | 00      | 22  | 09    | 00        | 09    | 31  | 00      | 31  |
| Household food security     |        |     |         |     |       |           |       |     |         |     |
| Any other (pl.specify)      | 02     | 26  | 00      | 26  | 04    | 00        | 04    | 30  | 00      | 30  |
| TOTAL                       | 04     | 71  | 04      | 75  | 39    | 04        | 43    | 110 | 08      | 118 |

# $\begin{tabular}{ll} Training\ programmes\ for\ Extension\ Personnel\ including\ sponsored\ training\ -\ CONSOLIDATED\ (On\ +\ Off\ campus) \end{tabular}$

|   | No.  |    |        | ,   | No. of | Partic | ipants | 5   |        |     |
|---|------|----|--------|-----|--------|--------|--------|-----|--------|-----|
| Area of training                        | of   | (  | Genera | l   |        | SC/ST  |        | Gr  | and To | tal |
| Area of training                        | Cour | Ma | Fem    | Tot | Ma     | Fem    | Tot    | Ma  | Fem    | Tot |
|   | ses  | le | ale    | al  | le     | ale    | al     | le  | ale    | al  |
| Productivity enhancement in field crops | 01   | 23 | 04     | 27  | 26     | 04     | 30     | 49  | 08     | 57  |
| Integrated Pest Management              | 01   | 22 | 00     | 22  | 09     | 00     | 09     | 31  | 00     | 31  |
| Integrated Nutrient management          |      |    |        |     |        |        |        |     |        |     |
| Rejuvenation of old orchards            |      |    |        |     |        |        |        |     |        |     |
| Protected cultivation technology        |      |    |        |     |        |        |        |     |        |     |
| Production and use of organic inputs    |      |    |        |     |        |        |        |     |        |     |
| Care and maintenance of farm            |      |    |        |     |        |        |        |     |        |     |
| machinery and implements                |      |    |        |     |        |        |        |     |        |     |
| Gender mainstreaming through SHGs       |      |    |        |     |        |        |        |     |        |     |
| Formation and Management of SHGs        |      |    |        |     |        |        |        |     |        |     |
| Women and Child care                    |      |    |        |     |        |        |        |     |        |     |
| Low cost and nutrient efficient diet    |      |    |        |     |        |        |        |     |        |     |
| designing                               |      |    |        |     |        |        |        |     |        |     |
| Group Dynamics and farmers              |      |    |        |     |        |        |        |     |        |     |
| organization                            |      |    |        |     |        |        |        |     |        |     |
| Information networking among farmers    |      |    |        |     |        |        |        |     |        |     |
| Capacity building for ICT application   |      |    |        |     |        |        |        |     |        |     |
| Management in farm animals              |      |    |        |     |        |        |        |     |        |     |
| Livestock feed and fodder production    | 01   | 12 | 00     | 12  | 03     | 00     | 03     | 15  | 00     | 15  |
| Household food security                 | 01   | 00 | 17     | 17  | 00     | 13     | 13     | 00  | 30     | 30  |
| Any other (pl.specify)                  | 02   | 26 | 00     | 26  | 04     | 00     | 04     | 30  | 00     | 30  |
| TOTAL                                   | 06   | 83 | 21     | 104 | 42     | 17     | 59     | 125 | 38     | 163 |

# **Sponsored training programmes**

|                                      | No. of |      |         |      | No. of | f Partic | ipants  |             |          |      |
|--------------------------------------|--------|------|---------|------|--------|----------|---------|-------------|----------|------|
|                                      | Cours  |      | General |      |        | SC/ST    | -p will | Grand Total |          |      |
| Area of training                     | es     | Ma   | Fem     | Tot  | Ma     | Fem      | Tot     | Ma          | Fem      | Tot  |
|                                      |        | le   | ale     | al   | le     | ale      | al      | le          | ale      | al   |
|                                      |        |      |         |      |        |          |         |             |          |      |
| Crop production and                  |        |      |         |      |        |          |         |             |          |      |
| management                           |        |      |         |      |        |          |         |             |          |      |
| Increasing production and            |        |      |         |      |        |          |         |             |          |      |
| productivity of crops                |        |      |         |      |        |          |         |             |          |      |
| Commercial production of             |        |      |         |      |        |          |         |             |          |      |
| vegetables                           |        |      |         |      |        |          |         |             |          |      |
| Production and value addition        |        |      |         |      |        |          |         |             |          |      |
| Fruit Plants                         |        |      |         |      |        |          |         |             |          |      |
| Ornamental plants                    |        |      |         |      |        |          |         |             |          |      |
| Spices crops                         |        |      |         |      |        |          |         |             |          |      |
| Soil health and fertility management |        |      |         |      |        |          |         |             |          |      |
| Production of Inputs at site         |        |      |         |      |        |          |         |             |          |      |
| Methods of protective cultivation    |        |      |         |      |        |          |         |             |          |      |
| Others (pl. specify)                 | 05     | 194  | 00      | 194  | 18     | 00       | 18      | 212         | 00       | 212  |
| Total                                |        |      |         |      |        |          |         |             |          |      |
| Post harvest technology and value    |        |      |         |      |        |          |         |             |          |      |
| addition                             |        |      |         |      |        |          |         |             |          |      |
| Processing and value addition        | 04     | 00   | 201     | 201  | 00     | 08       | 08      | 00          | 209      | 209  |
| Others (pl. specify)                 |        |      |         |      |        |          |         |             |          |      |
| Total                                |        |      |         |      |        |          |         |             |          |      |
| Farm machinery                       |        |      |         |      |        |          |         |             |          |      |
| Farm machinery, tools and            |        |      |         |      |        |          |         |             |          |      |
| implements                           |        |      |         |      |        |          |         |             |          |      |
| Others (pl. specify)                 |        |      |         |      |        |          |         |             |          |      |
| Total                                |        |      |         |      |        |          |         |             |          |      |
| Livestock and fisheries              |        |      |         |      |        |          |         |             |          |      |
| Livestock production and             |        |      |         |      |        |          |         |             |          |      |
| management                           |        |      |         |      |        |          |         |             |          |      |
| Animal Nutrition Management          |        |      |         |      |        |          |         |             |          |      |
| Animal Disease Management            |        |      |         |      |        |          |         |             |          |      |
| Fisheries Nutrition                  |        |      |         |      |        |          |         |             |          |      |
| Fisheries Management                 |        |      |         |      |        |          |         |             |          |      |
| Others (pl. specify)                 |        |      |         |      |        |          |         |             |          |      |
| Total                                |        |      |         |      |        |          |         |             |          |      |
| Home Science                         |        |      |         |      |        |          |         |             |          |      |
| Household nutritional security       |        |      |         |      |        |          |         |             |          |      |
| Economic empowerment of women        |        |      |         |      |        |          |         |             |          |      |
| Drudgery reduction of women          |        |      |         |      |        |          |         |             |          |      |
| Others (pl. specify)                 |        |      |         |      |        |          |         |             |          |      |
| Total                                |        |      |         |      |        |          |         |             |          |      |
| Agricultural Extension               |        |      |         |      |        |          |         |             |          |      |
| CapacityBuilding and Group           |        |      |         |      |        |          |         |             |          |      |
| Dynamics                             | 0.5    | 4011 | 0.1     | 44.5 | 0.5    |          | 4       | 44.5        | 45.      | 46   |
| Others (pl. specify)                 | 01     | 1011 | 91      | 1102 | 96     | 60       | 156     | 1107        | 151      | 1258 |
| Total CRAND TOTAL                    |        | 45.5 |         |      |        |          |         | 4           | <b>-</b> |      |
| GRAND TOTAL                          | 10     | 1205 | 292     | 1497 | 114    | 68       | 182     | 1319        | 360      | 1679 |

# Details of vocational training programmes carried out by KVKs for rural youth

|                               | No.         |      |         |       | No. of | o. of Participants |       |          |            |       |  |  |  |
|-------------------------------|-------------|------|---------|-------|--------|--------------------|-------|----------|------------|-------|--|--|--|
| Area of training              | of          |      | General |       |        | SC/ST              |       | G        | rand To    | tal   |  |  |  |
| Area or training              | Cour<br>ses | Male | Femal e | Total | Male   | Fema<br>le         | Total | Mal<br>e | Fema<br>le | Total |  |  |  |
| Crop production and           |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| management                    |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Commercial floriculture       |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Commercial fruit              |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| production                    |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Commercial vegetable          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| production                    |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Integrated crop               |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| management                    |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Organic farming               |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Others (pl. specify)          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Total                         |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Post harvest                  |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| technology and value addition |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Value addition                |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Others (pl. specify)          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Total                         |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Livestock and fisheries       |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Dairy farming                 | 01          | 10   | 00      | 10    | 02     | 00                 | 02    | 12       | 00         | 12    |  |  |  |
| Composite fish culture        |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Sheep and goat rearing        |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Piggery                       |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Poultry farming               |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Others (pl. specify)          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Total                         |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Income generation             |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| activities                    |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Vermicomposting               |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Production of bio-            |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| agents, bio-pesticides,       |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| bio-fertilizers etc.          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Repair and maintenance        |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| of farm machinery             |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| and implements                |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Rural Crafts                  | 02          | 00   | 47      | 47    | 00     | 03                 | 03    | 00       | 50         | 50    |  |  |  |
| Seed production               |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Sericulture                   |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Mushroom cultivation          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Nursery, grafting etc.        |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Tailoring, stitching,         | 01          | 00   | 08      | 08    | 00     | 02                 | 02    | 00       | 10         | 10    |  |  |  |
| embroidery, dying etc.        |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Agril. para-workers,          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| para-vet training             |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Others (pl. specify)          |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Total                         |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| <b>Agricultural Extension</b> |             |      |         |       |        |                    |       |          |            |       |  |  |  |
| Capacity building and         |             |      |         |       |        |                    |       |          |            |       |  |  |  |

| group dynamics       |   |    |    |    |   |   |   |    |    |    |
|----------------------|---|----|----|----|---|---|---|----|----|----|
| Others (pl. specify) |   |    |    |    |   |   |   |    |    |    |
| Total                |   |    |    |    |   |   |   |    |    |    |
| <b>Grand Total</b>   | 4 | 10 | 55 | 65 | 2 | 5 | 7 | 12 | 60 | 72 |

## 3.5. Extension Programmes

| Activities                         | No. of programmes | No. of farmers | No. of<br>Extension<br>Personnel | TOTAL  |
|------------------------------------|-------------------|----------------|----------------------------------|--------|
| Advisory Services - KMA            | 37                | 358014         | 00                               | 358014 |
| Diagnostic visits                  | 07                | 23             | -                                | 23     |
| Field Day                          | 19                | 671            | 14                               | 685    |
| Group discussions                  | 03                | 74             | 00                               | 74     |
| KisanGhosthi                       | 05                | 347            | 08                               | 355    |
| Film Show                          | 19                | 925            | 15                               | 940    |
| KisanMela                          | 01                | 3076           | 24                               | 3100   |
| Exhibition                         | 03                | 4057           | 32                               | 4089   |
| Scientists' visit to farmers field | 122               | 1313           | -                                | 1313   |
| Ex-trainees Sammelan               | 2                 | 58             | 00                               | 58     |
| Farmers' seminar/workshop          | 2                 | 758            | 12                               | 770    |
| Method Demonstrations              | 05                | 82             | 04                               | 86     |
| Celebration of important days      | 02                | 106            | 00                               | 106    |
| Special day celebration            | 02                | 91             | 00                               | 91     |
| Exposure visits                    | 1                 |                |                                  |        |
| Others (Sankalp Se Siddhi)         | 01                | 490            | 29                               | 519    |
| Total                              | 231               | 370085         | 138                              | 370223 |

**Details of other extension programmes** 

| <b>Particulars</b>                             | Number |
|--|--------|
| Electronic Media (CD./DVD)                     | 00     |
| Extension Literature                           | 05     |
| Newspaper coverage                             | 06     |
| Popular articles                               | 05     |
| Radio Talks – Vedio conference                 | 02     |
| TV Talks                                       | 09     |
| Animal health amps (Number of animals treated) | 00     |
| Others (Swachcha Bharat Abhiyan)               | 05     |
| Other – Jal Doot Training                      | 01     |
| Other – Soil Health Campaign                   | 01     |
| Other- PM live telecast                        | 01     |
| Total  | 11     |

#### 3.6.PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

| Crop     | Name of the crop | Name of the variety | Name of the<br>hybrid | Quantity of seed (q) | Value<br>(Rs) | Number of farmers |
|----------|------------------|---------------------|-----------------------|----------------------|---------------|-------------------|
| Cereals  | Wheat            | GW-451              | -                     | 15.50                | 55800         | 35                |
|          | Wheat            | GW-451              | -                     | 22.0                 | -             | Store at KVK      |
| Oilseeds | Mustard          | GDM-4               | -                     | 3.09                 | 24720         | 152               |
|          | Mustard          | GDM-4               |                       | 0.75                 | 2550          | Market sale       |
|          | Mustard          | GDM-4               | -                     | 2.40                 | -             | Store at KVK      |
| Total    |                  |                     |                       | 43.74                | 83070         |                   |

### Production of planting materials by the KVK

| Crop              | Name of the crop | Name of the variety | Name of the hybrid | Number | Value (Rs.) | Number of farmers |
|-------------------|------------------|---------------------|--------------------|--------|-------------|-------------------|
|                   | Tobacco          | GCT-3 &<br>DCT-4    | -                  | 66500  | 13300       | 11                |
|                   | Brinjal          | -                   | Neelesh            | 200    | 200         | 20                |
|                   | Tomato           | -                   | Abhinav            | 200    | 200         | 20                |
|                   | Chilli           | -                   | VNR                | 200    | 200         | 20                |
|                   | Lime             | Kagji lime          | -                  | 3305   | 34350       | 75                |
|                   | Pome granate     | Sinduri             | -                  | 100    | 2500        | 01                |
|                   | Papaya           | Madhu bindu         | -                  | 673    | 3252        | 07                |
|                   | Drum stick       | Multiplex (Pvt)     | -                  | 40     | 1000        | 01                |
|                   | Rose             | Desi                |                    | 82     | 820         | 07                |
|                   | Jasud            | Desi                |                    | 21     | 210         | 02                |
| Omenantal plants  | Night queen      | Desi                |                    | 03     | 30          | 01                |
| Ornamental plants | Cactus           | -                   |                    | 20     | 200         | 01                |
|                   | Acalifa          |                     |                    | 10     | 100         | 01                |
|                   | Aurelia          |                     |                    | 10     | 100         | 01                |
|                   | Total            |                     |                    |        |             | 168               |

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

|                     | Name of the bio-product | Quantity |             |                |
|---------------------|-------------------------|----------|-------------|----------------|
| <b>Bio Products</b> |                         | Kg       | Value (Rs.) | No. of Farmers |
| Bio Fertilisers     | Vermi compost           | 3715     | 18450       | 13             |
| Total               |                         |          |             |                |

### **Production of livestock materials**

|                           | Name of the breed | Number | Value (Rs.) | No. of Farmers |
|---------------------------|-------------------|--------|-------------|----------------|
| Particulars of Live stock |                   |        |             |                |
| Dairy animals             |                   |        |             |                |
|                           |                   |        |             |                |
| Total                     |                   |        |             |                |

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

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

## B. Literature developed/published

| Item              | Title   | Authors name   | Number |
|-------------------|---|----------------|--------|
| Research papers   | IDM module for the management of yellow vein mosaic       | Kumar Upesh    |        |
|                   | disease in okra. HortFlora Research Spectrum.6(3):215-    | & Kumar        |        |
|                   | 217   | Suresh (2017). |        |
|                   | IDM module for the management of wilt disease in          | Kumar Upesh    |        |
|                   | chickpea. Int. J. Pure App. Biosci. Manuscript No: IJPAB- | (2017).        |        |
|                   | 2017-5315, Dated -28-07-2017.                             |                |        |
|                   | IDM module for the management of leaf curl in chilli.     | Kumar Upesh    |        |
|                   | Int.J.Curr.Microbiol.App.Sci (2017) 6(9): 2087-2091       | & Kumar        |        |
|                   |   | Suresh (2017). |        |
|                   | Performance of Summer Pearl Millet (Pennisetum glaucum    | Chaudhari R.P. |        |
|                   | L.) Hybrids under North Gujarat Conditions.               | , Patel P.M.,  |        |
|                   | Int.J.Curr.Microbiol.App.Sci (2018) 7(1): 637-644         | Patel B.M.,    |        |
|                   |   | Kumar Upesh,   |        |
|                   |   | Darji S.S. and |        |
|                   |   | Patel S.J.     |        |
| Technical reports |   |                |        |
| News letters      |   |                |        |
| Technical         |   |                |        |
| bulletins         |   |                |        |
| Popular articles  | Care & Managemnt of pregnant animal                       | Dr S J Patel   |        |
|                   | Importance of vegetable & Kitchen Garden                  | Smt H B Patel  |        |
|                   | Management of pink boll worm in Bt cotton                 | Mr G A Patel   |        |
|                   | Management of repeat breeding in milch animal             | Dr S J Patel   |        |
|                   | IPM in Castor   | Mr G A Patel   |        |
|                   | Empowering women through skill development                | Dr S J Patel   |        |
| Extension         | Sankalp Se Siddhi   | KVK Staff      | 500    |
| literature        | Integrated Pest Management                                | Mr G A Patel   | 1000   |
|                   | Integrated Pest Management                                | Mr G A Patel   | 1000   |
|                   | Profitable farming through dairy animal                   | Dr S J Patel   | 1000   |
|                   | Azolla – as a animal feed                                 | Dr S J Patel   | 1000   |
|                   | Chilli crop production technology                         | Mr S S Darji   | 1000   |
| Others (Pl.       |   |                |        |
| specify)          |   |                |        |
| TOTAL             |   |                |        |

### C. Details of Electronic Media Produced

| S. No. | Type of media (CD / VCD / DVD/ Audio-Cassette) | Title of the programme   | Number |
|--------|--|--------------------------|--------|
| 01     | CD   | Method demo of pheromone | 01     |
|        |  | trap                     |        |
| 02     | CD   | Package demo of chickpea | 01     |

D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

# **Enhance profitability through Nursery Management in Chilli**

| Name of farmers  | - | Mr Vinubhai Ishwarbhai Patel  |   |
|------------------|---|---|---|
| Fathers Name     | - |   |   |
| Age              | - | 38 Year   |   |
| Village & Taluka | - | Chandrawati & Siddhapur   |   |
| Mo No            | - | 9714883115  |   |
| Area             | - | 1.0 ha  | TO A STATE OF THE PARTY OF THE |
| Irrigated area   | - | 1 ha  |   |
| Major crops      | - | Kharif- Castor, Cotton, Chilli<br>Rabi- Fennel,<br>Zaid –Sorghum<br>Fruit plant- Nil<br>Animal – 02 (Buffalo) |   |

Mr Vinubhai Ishwarbhai Patel is a young farmers of Village – Chandrawati, Taluka – Siddhapur, District – Patan (Gujarat). He is SSC passed & after completion of education, he is evolved in agriculture. Mr V.I.Patel are hard working for getting more profit in your small holding lands. But they are not in success. During meeting of Krishi Vigyan Kendra, he touch the Scientist of Krishi VIgyan Kendra. Scientist of Krishi Vigyan Kendra are suggested scientific vegetable cultivation as well as seedling selling of vegetable crop for more profit in small land holding. Under the guidance of Krishi VIgyan Kendra, he was grow chilli seedling in 0.25ha land

**Nursery Management Technology Adopted:-**

- Raised bed nursery
- Hybrid seeds of chilli
- **!** Line sowing
- **Protect the nursery with mosquito net**
- Seed treatment by systemic fungicide as well as insecticide
- **❖** Timely weeding & apply plant protection measure

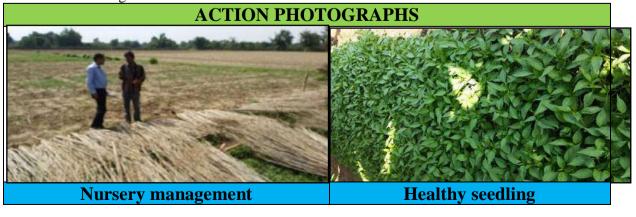
Mr V.I.Patel are regularly touch with KVK scientist & timely impart the activity as per suggestion given by scientist. He was regularly touch with the farmers & farmers are also visit in your farm resulted he was sell the seedling of chilli & earned 46,500 Rs. Net profit from 0.25 acre land.

#### **Economic Impact:-**

| Particulars        | Cost (Rs) | Production                    | Gross Return (Rs.) | Net Return (Rs.) |
|--------------------|-----------|-------------------------------|--------------------|------------------|
| Input cost – Seed, | 16500     | 180000 seedlings              | 63000              | 46500            |
| Chemical etc       |           | Sold @ 350 Rs./1000 seedlings |                    |                  |

Outcome:- Mr V.I.Patel are work under the guidance of Krishi Vigyan Kendra Scientist. In limited time period (Within 2 Month), he was getting net profit is Rs 46500 only in 0.25ha land. AT present he was motivate the other farmers for adoption of scientific technologies.

Impact:- Adjoining farmers are seen the act of Mr V.I.Patel & regularly visit & discuss with Mr V.I.Patel. After result obtain by Mr V.I.Patel, other farmers are also appreciate the work of Mr V.I.Patel & hopeful for future adoption of scientific technologies.



# Package demonstration of Groundnut under NMOOP programme

|                      | 1 |                                     |   |
|----------------------|---|-------------------------------------|---|
| Name of farmers      | - | Sri Rohit Bhai Chaudhari            |   |
| Fathers Name         |   | Sri Savaji Bhai Chadhari            | But all of the County                   |
| Age                  | - | 35                                  | Marie Carlotte                          |
| Vilage & Taluka      | - | Nagvasan, Siddhapur                 | CONTRACTOR AND ASSESSMENT               |
| Mo No                | - | 9978307343                          |   |
| Area                 | - | 5.0 ha                              |   |
| Irrigated area       | - | 5.0 ha                              | 1007                                    |
| Method of irrigation |   | Sprinkalar irrigation               |   |
| Major crops          | - | Kharif- Groundnut, Castor & Cluster |   |
|                      |   | bean                                |   |
|                      |   | Rabi- Wheat & Tobacco               | 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|                      |   | – Greengram                         |   |

Mr Rohit Bhai Chaudhari is a farmers of Village – Nagvasan, Taluka – Siddhapur, District – Patan (Gujarat). He is a progressive farmers & working in the field of agriculture. After education, Mr Chaudhari was engaged in agriculture & he was regular touch with KVK scientist for taking latest agriculture technology for enhancing profitability in our farm. The main source of farm income of Mr Chaudhari is Field crops & good Dairy Farm. Under Field crop, he was grown castor & cotton as a case crop but he is not interested on growing of other oilseed crops like – Groundnut. He was cultivated groundnut only for home consumption. KVK Scientist regularly motivates for crop diversification & discuss about the profitability of groundnut as a oilseed crops. In 2016-17, KVK was conducted the demonstration under NMOOP programme on Package demonstration of groundnut & he was interested for cultivation of groundnut. He was actively participate the programme identification of problem for low production of green gram to implementation of demonstration.

#### **Demonstrated technology:-**

 $Improved\ variety\ (GG-20) + Seed\ inoculation\ with\ \textit{T\ viridae}\ \ @\ 10gm/Kg\ seed\ + Soil\ inoculation\ with\ NPK\ liquid\ bio\ fertilizer\ along\ with\ \textit{T\ viridae}\ \ @\ 2.5\ Kg/\ Ha\ +\ RDF\ +\ IWM\ \&\ IPM\ module$ 

Mr R.B.Chaudhari are regularly touch with KVK scientist & timely impart the activity like seed treatment, sowing, timely & proper dose application of fertilizer, timely weed management, apply timely plant protection measure resulted enhance 29.61 % productivity of demonstrated plot as compared to their own practice.

**Output/ Economic Impact:-**

| Yield (qtl/ha)        |      | Net return (Rs/ha) |         | B:C ratio     |      |           |
|-----------------------|------|--------------------|---------|---------------|------|-----------|
| <b>T1</b>             | T2   | % Enhance          | T1      | <b>T2</b>     | T1   | <b>T2</b> |
| 15.2                  | 19.7 | 29.61              | 34450   | 47270         | 2.84 | 3.18      |
| T1- Farmers practice, |      |                    | T2- Rec | ommended Prac | tice |           |

Outcome: Under technology farmers are found 29.61% higher yield over own practice resulted enhance the net profit 37.21%.

**Impact:-** Adjoining farmers are minutely observe the results of technology like germination, plant population, plant growth etc. They are appreciated the technology & hopeful for future adoption of technology.



# E. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year - No

F. 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 / Enterprise | ITK Practiced                                      | Purpose of ITK                  |
|-----|-------------------|--|---------------------------------|
| No. |                   |  |                                 |
| 1.  | Nursery seedling  | -Use of Tobacco dust solution                      | To control damping off disease  |
|     |                   |  | in Nursery plants               |
| 2.  | Wheat, Chilli,    | -Use of calotropics decomposed leaves & twigs      | To control termite in different |
|     | Cotton etc.       | solution along with irrigation water               | crops                           |
| 3.  | Cumin             | -Using wood ash + old Bajara flour dusting         | To control blight disease in    |
|     |                   |  | Cumin                           |
| 4.  | Lemon             | -To broadcast Tobacco dust                         | To control aphid & other        |
|     |                   |  | sucking pest in Lemon           |
| 5.  | Chilli            | -Use of sour butter milk & cow urine spraying      | To control sucking pest & leaf  |
|     |                   | -Spraying of the mixture of sour butter milk & cow | curl in chilli                  |
|     |                   | urine in chilli                                    |                                 |

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

#### A. Practicing Farmers

- a) Bench mark survey
- b) PRA
- c) Field visit
- d) Group Discussion etc

#### **B. Rural Youth**

- a) Field visit
- b) PRA
- c) Training
- d) Group discussion

#### C. In-service personnel

- a) Field visit/ Diagnostic visit
- b) SAC meeting

### 5.2. Indicate the methodology for identifying OFTs/FLDs

#### For OFT:

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

#### For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any

#### 5.3. Field activities

- i. Name of villages identified/adopted with block name (from which year) -
- ii. No. of farm families selected per village:
- iii. No. of survey/PRA conducted:
- iv. No. of technologies taken to the adopted villages
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological- horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

#### 6. LINKAGES

### A. Functional linkage with different organizations

| Name of organization                   | Nature of linkage  |  |  |
|--|--|--|--|
| Sardarkrushinagar Dantiwada Agril.     | -Linkage for seasonal training cum workshop of kharif, Rabi and summer     |  |  |
| University, S.K.Nagar                  | crops.   |  |  |
|  | -Linkage for various demonstration of farm technology.                     |  |  |
|  | -Linkage for diagnostic services   |  |  |
|  | -Technical guidance  |  |  |
| Agril. Department Gujarat State, Patan | -Linkage for exchange of information regarding farming.                    |  |  |
|  | -Linkage for training programme of seasonal crops for practicing farmers.  |  |  |
|  | -Linkage for training of extension functionaries.                          |  |  |
| Gujarat State Fertilizer & Chemical    | -linkage for demonstration about efficient and proper use of chemical      |  |  |
| Ltd. Sidhpur                           | fertilizer and importance of bio-fertilizer.                               |  |  |
|  | -Linkage for soil and water analysis and training programme to farmers     |  |  |
| G.N.F.C. Sidhpur                       | -Linkage for soil and water analysis.                                      |  |  |
|  | -Linkage for farmer training programme                                     |  |  |
| Department of Animal Husbandry,        | -Linkage for training of management of milking animal & steps to solve the |  |  |
| Gujarat State, Patan                   | burning problem of cattle owner.   |  |  |
| Dudhsagar Dairy, Mehsana               | -Linkage for training to Ext. functionaries.                               |  |  |
| Dept. of Horticulture Gujarat State,   | To create awareness regarding different schemes of Horticulture            |  |  |
| Patan                                  | development.   |  |  |
|  | -To increase the awareness about protective cultivation in shade net       |  |  |
| Farmers Training Centre, Patan         | -linkage for imparting training to farmers & farm women & rural youth      |  |  |
| ICDS Patan                             | In-service training programme and sponsored training programme             |  |  |
| ATMA Patan                             | -Seasonal training programme   |  |  |
|  | -Demonstration of Agril. technology  |  |  |
| IWMP, Patan                            | Imparting training to the extension functionaries, farmers & farm women    |  |  |
|  | about soil reclamation & other enterprises                                 |  |  |
| NABARD, Patan                          | Training to members of farm science club                                   |  |  |
|  |  |  |  |
| Reliance                               | Quick delivery of message in large scale through Kisan Mobile sandesh      |  |  |

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

# B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

| Name of the scheme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|--------------------|---------------------------|----------------|--------------|
| Krishi Jal Doot    | 01-15 June, 2017          | NABARD, Patan  | Rs 50,000/-  |

### C. Details of linkage with ATMA

a) Is ATMA implemented in your district

Yes/No - Yes

If yes, role of KVK in preparation of SREP of the district?

## Coordination activities between KVK and ATMA

| S.<br>No. | Programme | Particulars                       | No. of<br>programmes<br>attended by<br>KVK staff | No. of<br>programmes<br>Organized<br>by KVK | Other<br>remarks<br>(if any) |
|-----------|-----------|-----------------------------------|--|---|------------------------------|
| 01        | Meetings  | ATMA Management Committee Meeting | 04   | 03  |                              |

| 02 | Research                |  |        |    |  |
|----|-------------------------|--|--------|----|--|
|    | projects                |  |        |    |  |
|    | Training                | Skill development                      | 01 +01 |    |  |
|    | programmes              | Skill development                      |        |    |  |
|    |                         | Organic farming                        |        | 05 |  |
|    |                         | Value addition                         |        | 04 |  |
|    |                         | Doubling farmers income- Kisan Mitra   |        | 05 |  |
| 03 |                         | NASA regarding training programme      | 01     |    |  |
| US |                         | Post harvest management                |        | 01 |  |
|    |                         | Training need assessment & evaluation  |        | 01 |  |
|    |                         | of training                            |        |    |  |
|    |                         | Skill development in horticulture crop | 01     |    |  |
|    |                         | IDPM in field crops & soil health      | 01     |    |  |
|    |                         | management                             | 01     |    |  |
| 04 | <b>Demonstrations</b>   |  |        | 01 |  |
|    |                         |  |        |    |  |
|    | <b>Extension Progra</b> | ammes                                  |        |    |  |
|    | KisanMela               | Kisan Mela                             | 01     |    |  |
| 05 | Others                  | Kisan – ScientistGosthi                | 01     | 01 |  |
|    |                         | Kisan Gosthi                           | 01     |    |  |
|    |                         | PM live telecast programme             |        | 01 |  |
| 06 | <b>Publications</b>     |  |        |    |  |
|    | Extension               | Value addition in fruits & vegetable   |        | 02 |  |
|    | Literature              | Organic Farming                        |        |    |  |
|    | Pamphlets               |  |        |    |  |

## D. Give details of programmes implemented under National Horticultural Mission - NA

| S.<br>No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Constraints if any |   |
|-----------|-----------|-------------------|---------------------------|--|--------------------|---|
|           |           |                   |                           |  |                    | l |

E. Nature of linkage with National Fisheries Development Board - NA

| S.<br>No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|-----------|-----------|-------------------|---------------------------|--|---------|
|           |           |                   |                           |  |         |

F. Details of linkage with RKVY - NA

| _ | 1. Details of minings with the first |           |                   |                           |  |         |  |  |
|---|--------------------------------------|-----------|-------------------|---------------------------|--|---------|--|--|
|   | S.<br>No.                            | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |  |  |
|   |                                      |           |                   |                           |  |         |  |  |

#### 7. Convergence with other agencies and departments:

- ❖ ATMA, Distt.- Patan
- Deprtt of Agriculture Distt.- Patan
- ❖ Department of Horticulture, Distt.- Patan
- ❖ Department of Animal Husbendary, Distt.- Patan
- NABARD, Distt.- Patan
- ❖ Lead NGOs working in agriculture, Distt.- Patan

#### 8. Innovator Farmer's Meet - No

| Sl.No. | Particulars   | Details |
|--------|---|---------|
|        | Have you conducted Farm Innovators meet in your district? | Yes/ No |
|        | Brief report in this regard                               |         |

#### 9. Farmers Field School (FFS) - No

| S.<br>No | Thematic area | Title of the FFS | Budget proposed in Rs. | Brief report |
|----------|---------------|------------------|------------------------|--------------|
|          |               |                  |                        |              |

#### 10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

- Need to develop yellow mosaic resistant variety of black gram.
- Need to develop high yielding, wilt resistant & drought tolerance variety of chickpea.
- Need to develop wilt resistant variety in castor
- Need to develop wilt & pink boll worm resistant/ tolerance variety in cotton
- Need to develop cropping system module of vegetable crops.
- Need to develop INM module as per cropping system.
- Need to develop to resistant variety of chilli against viral diseases.
- Need to develop IPM module in major insect of vegetable crop.
- Need to develop complex fertilizer as per crops.

# 10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

| universities.                         |   |
|---------------------------------------|---|
| Name of scientist                     | Feed back   |
| Mr R.P.Chaudhri, SMS- Crop Production | Need to develop high yielding & drought tolerant variety of           |
|                                       | chickpea  |
|                                       | Need to develop INM module in field crop as per cropping              |
|                                       | system  |
|                                       | Need to develop complex fertilizer as per crops                       |
| Mr S S Darji, SMS- Horticulture       | Need to develop cropping system module of vegetable crops             |
|                                       | Need to develop INM module in vegetable crop as per                   |
|                                       | cropping system   |
| Mr G A Patel, SMS- Plant Protection   | Need to develop yellow mosaic resistant variety of black gram.        |
|                                       | Need to develop wilt resistant variety of chickpea                    |
|                                       | Need to develop wilt resistant variety in castor                      |
|                                       | Need to develop wilt & pink boll worm resistant/ tolerance variety in |
|                                       | cotton  |
| Dr S J Patel, SMS- Animal Science     | Need to develop high yielding & high protein contain variety          |
|                                       | of fodder crop  |

#### 11. Technology Week celebration during 2017-18 Yes/No, If Yes - No

Period of observing Technology Week: From to

Total number of farmers visited : Total number of agencies involved :

Number of demonstrations visited by the farmers within KVK campus:

## Other Details

| Types of Activities                 | No. of     | Number of | Related crop/livestock technology |
|-------------------------------------|------------|-----------|-----------------------------------|
|                                     | Activities | Farmers   | 1                                 |
| Gosthies                            |            |           |                                   |
| Lectures organized                  |            |           |                                   |
| Exhibition                          |            |           |                                   |
| Film show                           |            |           |                                   |
| Fair                                |            |           |                                   |
| Farm Visit                          |            |           |                                   |
| Diagnostic Practicals               |            |           |                                   |
| Supply of Literature (No.)          |            |           |                                   |
| Supply of Seed (q)                  |            |           |                                   |
| Supply of Planting materials (No.)  |            |           |                                   |
| Bio Product supply (Kg)             |            |           |                                   |
| Bio Fertilizers (q)                 |            |           |                                   |
| Supply of fingerlings               |            |           |                                   |
| Supply of Livestock specimen (No.)  |            |           |                                   |
| Total number of farmers visited the |            |           |                                   |
| technology week                     |            |           |                                   |

## 12. Interventions on drought mitigation (if the KVK included in this special programme)- NA

13 Introduction of alternate crops/varieties

| State | Crops/cultivars | Area (ha) | Number of beneficiaries |
|-------|-----------------|-----------|-------------------------|
|       |                 |           |                         |

## B. Major area coverage under alternate crops/varieties

| Crops    | Area (ha) | Number of beneficiaries |
|----------|-----------|-------------------------|
| Oilseeds |           |                         |
| Pulses   |           |                         |
|          |           |                         |
| Total    |           |                         |

## C. Farmers-scientists interaction on livestock management

| State | Livestock components | Number of interactions | No.of participants |
|-------|----------------------|------------------------|--------------------|
|       |                      |                        |                    |
| Total |                      |                        |                    |

## D. Animal health camps organized

| State | Number of camps | No.of animals | No.of farmers |
|-------|-----------------|---------------|---------------|
|       |                 |               |               |
|       |                 |               |               |
| Total |                 |               |               |

## E. Seed distribution in drought hit states

| State | Crops | Quantity (qtl) | Coverage of area (ha) | Number of farmers |
|-------|-------|----------------|-----------------------|-------------------|
|       |       |                |                       |                   |
| Total |       |                |                       |                   |

## F. Large scale adoption of resource conservation technologies

| State | Crops/cultivars and gist of resource conservation technologies introduced | Area (ha) | Number<br>of<br>farmers |
|-------|---|-----------|-------------------------|
|       |   |           |                         |
| Total |   |           |                         |

## G. Awareness campaign

| State | Meet | ings          | Gost | hies          | Field | days          | Farr | ners fair     | Exhib | ition         | Film | show          |
|-------|------|---------------|------|---------------|-------|---------------|------|---------------|-------|---------------|------|---------------|
|       | No.  | No.of farmers | No.  | No.of farmers | No.   | No.of farmers | No.  | No.of farmers | No.   | No.of farmers | No.  | No.of farmers |
|       |      |               |      |               |       |               |      |               |       |               |      |               |
|       |      |               |      |               |       |               |      |               |       |               |      |               |
| Total |      |               |      |               |       |               |      |               |       |               |      |               |

### **13. IMPACT**

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

| Name of specific   | No. of       | % of adoption | Change in income  | (Rs.)            |
|--|--------------|---------------|-------------------|------------------|
| technology/skill transferred   | participants |               | Before (Rs./Unit) | After (Rs./Unit) |
| Varietal adoption  |              |               |                   |                  |
| Castor-GCH-7   | 50           | 82            | -                 | -                |
| Fennel-GF-12   | 25           | 54            | -                 | -                |
| Wheat-GW-451   | 50           | 68            | -                 | -                |
| Cumin-GC-4   | 25           | 74            | -                 | -                |
| Ajwain- GA-2   | 25           | 48            | -                 | -                |
| Wilt disease management in Cumir through use of Bio-fungicide (Trichoderma spp.) | 25           | 24            | -                 | -                |
| Management of pink boll worm through IPM   | 25           | 32            | -                 | -                |
| Application of sulpher in mustard  | 25           | 76            | -                 | -                |
| Managemnet of wilt in fennel   | 25           | 83            | -                 | -                |

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

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

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

## 14. Kisan Mobile Advisory Services

| Month        | No. of SMS sent | No. of farmers to which SMS was sent | No. of feedback / query<br>on SMS sent |
|--------------|-----------------|--------------------------------------|--|
| April 2017   | 02              | 3860                                 | 22                                     |
| May          | 00              | 00                                   | 00                                     |
| June         | 03              | 5779                                 | 38                                     |
| July         | 01              | 1930                                 | 42                                     |
| August       | 03              | 5799                                 | 52                                     |
| September    | 05              | 57812                                | 102                                    |
| October      | 03              | 27008                                | 88                                     |
| November     | 05              | 56035                                | 142                                    |
| December     | 02              | 27200                                | 32                                     |
| January 2018 | 10              | 112043                               | 114                                    |
| February     | 02              | 54020                                | 56                                     |
| March        | 01              | 27010                                | 26                                     |

|             |                             | Type of Messages |               |         |                |                |                   |        |
|-------------|-----------------------------|------------------|---------------|---------|----------------|----------------|-------------------|--------|
| Name of KVK | Message Type                | Crop             | Livesto<br>ck | Weather | Marke<br>-ting | Awar<br>e-ness | Other enterpris e | Total  |
|             | Text only                   | 27               | 05            | 00      | 04             | 01             | 00                | 37     |
|             | Voice only                  |                  |               |         |                |                |                   |        |
| Patan       | Voice & Text both           |                  |               |         |                |                |                   |        |
|             | <b>Total Messages</b>       | 27               | 05            | 00      | 04             | 01             | 00                | 37     |
|             | Total farmers<br>Benefitted | 243541           | 56507         | 00      | 30956          | 27010          | 00                | 358014 |

## 15. PERFORMANCE OF INFRASTRUCTURE IN KVK

## 13 Performance of demonstration units (other than instructional farm)

| Sl      |                      |                              |                    | Det                      | ails of product | ion        | Amou                     | ınt (Rs.)    |                        |
|---------|----------------------|------------------------------|--------------------|--------------------------|-----------------|------------|--------------------------|--------------|------------------------|
| N<br>o. | Demo Unit            | Year of<br>establishmen<br>t | Area<br>(ha)       | Variet<br>y              | Produce         | Qty.       | Cost<br>of<br>input<br>s | Gross income | Remarks                |
| 1       | Vermi<br>compost     | 2003                         | 200 M <sup>2</sup> |                          | Compos<br>t     | 3715<br>Kg | -                        | 1845<br>0    | Sale to<br>farmer<br>s |
| 2       | Azolla               | 2016-17                      | 02 Pit             |                          |                 |            |                          |              |                        |
| 3       | Dairy –<br>Gir Cow   | 2016-17                      | 10 No of calfs     |                          |                 |            |                          |              |                        |
| 4       | Goatery-<br>Mahesani | 2016-17                      | 15 No of goat      |                          |                 |            |                          |              |                        |
| 5       | Nursery              | 2012-13                      | 4000M <sup>2</sup> | Regular pr<br>of samplin |                 |            |                          |              |                        |
| 6       | IFS                  | 2016-17                      | 1.0 ha             | Under prog               | gress           |            |                          |              |                        |

## B. Performance of instructional farm (Crops) including seed production

| Name            | Date of             | Date of                     | g (          | De                  | tails of production |              |                |                 |   |
|-----------------|---------------------|-----------------------------|--------------|---------------------|---------------------|--------------|----------------|-----------------|---|
| of the crop     | sowing              | harvest                     | Area<br>(ha) | Variety             | Type of Produce     | Qty.         | Cost of inputs | Gross<br>income | Remarks   |
| Cereals         |                     |                             |              |                     |                     |              |                |                 |   |
| Wheat           | `02-<br>12-<br>2017 | 04-04-<br>2018              | 0.75         | GW-<br>451          | Seed                | 22.0<br>qtl  | 15700          | -               | Store   |
| Summer<br>Bajra | 07-<br>03-<br>2017  | -                           | 0.85         | Pioneer<br>hybrid   | Grain               |              |                |                 |   |
| Pulses          |                     |                             |              |                     |                     |              |                |                 |   |
| Gwar            | 05-<br>07-<br>2017  | 15-11-<br>2017              | 1.0          | GG-1                | Grain               | 3.66<br>qtl  | 1580           | 13267           |   |
| Oilseeds        |                     |                             |              |                     |                     |              |                |                 |   |
| Castor          | 15-<br>08-<br>2017  | II fortnight of march, 2018 | 3.25         | GCH-7               | Grain               | 48.50        | 4500           | -               | Store   |
| Mustard         | 16-<br>10-<br>2017  | 28-02-<br>2018              | 1.50         | GDM-<br>4           | Seed                | 12.80<br>qtl | 10120          | 36869           | Seed -<br>2.40qtl<br>are<br>store &<br>rest are<br>sale in<br>mandi |
| Fruits          |                     |                             |              |                     |                     |              |                |                 |   |
| Lime            | 2004                |                             | 2.70         | Kagji<br>lime       |                     |              |                | 63000           |   |
| Mango           | 1994                |                             | 0.95         | Kesar               |                     |              |                | 28000           |   |
| Sapota          | 1994                |                             | 0.60         | Kali<br>patti       |                     |              |                |                 |   |
| Pome<br>granate | 2013                |                             | 0.50         | Sinduri             |                     |              |                | -               |   |
| Tobacco         | 20-<br>11-<br>2017  | 13-04-<br>2018              | 1.5          | DCT-4<br>&<br>GCT-3 | Commercial          | 33.86<br>qtl | 21000          | 145820          | Sale in mandi   |
|                 |                     |                             |              |                     |                     |              |                |                 |   |

# C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

| Sl. | Name of the | 0.  | Amou           | D 1          |         |
|-----|-------------|-----|----------------|--------------|---------|
| No. | Product     | Qty | Cost of inputs | Gross income | Remarks |
|     |             |     |                |              |         |
|     |             |     |                |              |         |

## D. Performance of instructional farm (livestock and fisheries production)

|           | Name                                     | Details of production |                 |      | Amou           |              |         |
|-----------|--|-----------------------|-----------------|------|----------------|--------------|---------|
| Sl.<br>No | of the<br>animal /<br>bird /<br>aquatics | Breed                 | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
|           |  |                       |                 |      |                |              |         |
|           |  |                       |                 |      |                |              |         |

## E. Utilization of hostel facilities

Accommodation available (No. of beds):- 25 No

| Months         | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|----------------|------------------------|----------------------------|--------------------------------|
| April 2017     | 21                     | 06                         |                                |
| May 2017       | 16                     | 30                         |                                |
| June 2017      | 16                     | 30                         |                                |
| July 2017      | 16                     | 07                         |                                |
| August 2017    | 29                     | 22                         |                                |
| September 2017 | 29                     | 22                         |                                |
| October 2017   | 29                     | 18                         |                                |
| November 2017  | 27                     | 30                         |                                |
| December 2017  | 27                     | 30                         |                                |
| January 2018   | 27                     | 30                         |                                |
| February 2018  | 32                     | 30                         |                                |
| March 2018     | 32                     | 30                         |                                |

F. Database management

| S. No | Database target | Database created |
|-------|-----------------|------------------|
|       |                 |                  |

# G. Details on Rain Water Harvesting Structure and micro-irrigation system - NA

| Amoun<br>t<br>sanctio<br>n (Rs.) | Expenditur<br>e (Rs.) | Details of infrastructu re created / micro irrigation system etc. |                                      | Activities conducted          |                                   |                                     |                                       |  | Area<br>irrigated<br>/<br>utilizatio<br>n pattern |
|----------------------------------|-----------------------|---|--------------------------------------|-------------------------------|-----------------------------------|-------------------------------------|---------------------------------------|--|---|
|                                  |                       |   | No. of<br>Training<br>programm<br>es | No. of<br>Demonstratio<br>n s | No. of plant material s produce d | Visit<br>by<br>farmer<br>s<br>(No.) | Visit<br>by<br>official<br>s<br>(No.) |  |   |
|                                  |                       |   |                                      |                               |                                   |                                     |                                       |  |   |

## 16.FINANCIAL PERFORMANCE

## 13 Details of KVK Bank accounts

| Bank      | Name of  | Location   | Branch | Account | Account     | MICR      | IFSC        |
|-----------|----------|------------|--------|---------|-------------|-----------|-------------|
| account   | the bank |            | code   | Name    | Number      | Number    | Number      |
| With Host | -        | -          | -      | -       | -           | -         | -           |
| Institute |          |            |        |         |             |           |             |
| With      | State    | Kahoda,    | 15232  | KVKSGVS | 10265325092 | 384002509 | SBIN0015232 |
| KVK       | Bank of  | District – |        | Ganwada |             |           |             |
|           | India,   | Mahesana   |        |         |             |           |             |

# B. Utilization of KVK funds during the year 2017-18 (Rs. In lakh)

| S.<br>No. | Particulars  | Sanctioned | Released | Expenditure |
|-----------|--|------------|----------|-------------|
|           | ecurring Contingencies   |            |          |             |
| 1         | Pay & Allowances   | 140.00     | 140.00   | 135.93      |
| 2         | Traveling allowances   | 0.90       | 0.90     | 0.90        |
| 3         | Contingencies  |            | •        | 1           |
| A         | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) |            | 3.00     | 1.44        |
| В         | POL, repair of vehicles, tractor and equipments  |            |          | 1.46        |
| C         | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)  |            |          | 0.66        |
| D         | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)                                      | 7.50       |          | 0.19        |
| E         | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)   | 7.50       |          | 2.66        |
| F         | On farm testing (on need based, location specific<br>and newly generated information in the major<br>production systems of the area)                           |            | 4.50     | 0.68        |
| G         | Training of extension functionaries  |            |          | 0.10        |
| H         | Maintenance of buildings   |            |          | 00          |
| Ι         | Establishment of Soil, Plant & Water Testing Laboratory  |            |          | 00          |
| J         | Library  |            |          | 00          |
|           | TOTAL (A)  |            |          |             |
| B. No     | on-Recurring Contingencies   |            |          |             |
| 1         | Works  | 00         | 00       | 00          |
| 2         | <b>Equipments including SWTL &amp; Furniture</b>   | 00         | 00       | 00          |
| 3         | Vehicle (Four wheeler/Two wheeler, please  |            |          |             |
|           | specify)   | 00         | 00       | 00          |
| 4         | <b>Library</b> (Purchase of assets like books &  |            |          |             |
|           | journals)  | 00         | 00       | 00          |
|           | AL (B)   | 00         | 00       | 00          |
|           | EVOLVING FUND  | 00         | 00       | 00          |
| GRA       | ND TOTAL (A+B+C)   | 148.40     | 148.40   | 144.02      |

C. Status of revolving fund (Rs. In lakh) for the three years

| Year          | Opening balance<br>as on 1 <sup>st</sup> April | Income<br>during the<br>year | Expenditure during the year | Net balance in hand as on 1 <sup>st</sup> April of each year |
|---------------|--|------------------------------|-----------------------------|--|
| April 2015 to | 313380   | 760354                       | 450453                      | 623281   |
| March 2016    |  |                              |                             |  |
| April 2016 to | 623281   | 381768                       | 471649                      | 533400   |
| March 2017    |  |                              |                             |  |
| April 2017 to | 533400   | 648341                       | 786540                      | 395204   |
| March 2018    |  |                              |                             |  |

17. Details of HRD activities attended by KVK staff during year

| I                   | RD activities attenued by K |   |                                     |                      |
|---------------------|-----------------------------|---|-------------------------------------|----------------------|
| Name of the staff   | Designation                 | Title of the training programme                                   | Institute where attended            | Dates                |
| Mr G A Patel        | SMS, Plant Protection       | Workshop on doubling farmers income                               | SDAU, S K<br>Nagar                  | 18 to 19-04-<br>2017 |
| Mr R P<br>Chaudhari | SMS Crop Production         | Training on Soil testing  | ATARI,<br>Jodhpur                   | 19 to 20-05-<br>2017 |
| Mr S S Darji        | SMS, Horticulture           | Jal Doot Training   | NABARD,<br>Patan                    | 23-05-2017           |
| Dr Upesh<br>Kumar   | Sr Scientist & Head         | Zonal workshop  | JAU, Junagarh                       | 10&11-06-<br>2017    |
| Dr S J Patel        | SMS, Animal Science         | Zonal workshop  | JAU, Junagarh                       | 10&11-06-<br>2017    |
| Mr R P<br>Chaudhari | SMS Crop Production         | Pre Seasonal Kharif<br>workshop                                   | SDAU, S K<br>nagar                  | 13 &14-07-<br>2017   |
| Mr H. P. Patel      | SMS, Agri Extenstion        | Pre Seasonal Kharif<br>workshop                                   | SDAU, S K<br>nagar                  | 13 &14-07-<br>2017   |
| Dr S J Patel        | SMS, Animal Science         | PFMS training   | Gujarat<br>Vidyapeeth,<br>Ahmedabad | 28&29-10-<br>2017    |
| Mr N B Patel        | Accounatant                 | PFMS training   | Gujarat<br>Vidyapeeth,<br>Ahmedabad | 28&29-10-<br>2017    |
| Mr S S Darji        | SMS, Horticulture           | Newer option of arid<br>horticulture & doubling<br>farmers income | CAZRI,<br>Jodhpur                   | 12 to 21-11-<br>2017 |

| Dr Upesh<br>Kumar   | Sr Scientist & Head  | National Seminar on<br>Doublling Farmers<br>income                  | BRAU,<br>Lucknow     | 10&11-02-<br>2018  |
|---------------------|----------------------|---|----------------------|--------------------|
| Dr Upesh<br>Kumar   | Sr Scientist & Head  | Farmers – Scientist interaction congress on doubling farmers income | BIOVED,<br>Allahabad | 17& 18-02-<br>2018 |
| Dr Upesh<br>Kumar   | Sr Scientist & Head  | Workshop on OFT   | SDAU, S K<br>Nagar   | 11-01-2018         |
| Mr R P<br>Chaudhari | SMS Crop Production  | Workshop on OFT   | SDAU, S K<br>Nagar   | 11-01-2018         |
| Mr H. P. Patel      | SMS, Agri Extenstion | Workshop on OFT   | SDAU, S K<br>Nagar   | 11-01-2018         |
| Mr S S Darji        | SMS, Horticulture    | Workshop on OFT   | SDAU, S K<br>Nagar   | 11-01-2018         |
| Dr S J Patel        | SMS, Animal Science  | Workshop on OFT   | SDAU, S K<br>Nagar   | 11-01-2018         |
| Mr G A Patel        | SMS Plant Protection | Workshop on OFT   | SDAU, S K<br>Nagar   | 11-01-2018         |

<sup>18.</sup> Please include any other important and relevant information which has not been reflected above (write in detail).

## **APR SUMMARY**

(Note: While preparing summary, please don't add or delete any row or columns)

## 1. Training Programmes

| Clientele               | No. of  | Male | Female | Total        |
|-------------------------|---------|------|--------|--------------|
|                         | Courses |      |        | participants |
| Farmers & farm women    | 63      | 1087 | 423    | 1510         |
| Rural youths            | -       | -    | -      | -            |
| Extension functionaries | 06      | 125  | 38     | 163          |
| Sponsored Training      | 10      | 1319 | 360    | 1679         |
| Vocational Training     | 04      | 30   | 60     | 90           |
| Total                   |         |      |        |              |

## 2. Frontline demonstrations

| Enterprise            | No. of Farmers | Area(ha) | Units/Animals   |
|-----------------------|----------------|----------|-----------------|
| Oilseeds              | 182            | 70       | -               |
| Pulses                | 100            | 40       | -               |
| Cereals               | 50             | 20       | -               |
| Vegetables            | 20             | 05       | -               |
| Other crops           | 190            | 59       | -               |
| Hybrid crops          | -              | -        | -               |
| Total                 | 542            | 194      | -               |
| Livestock & Fisheries | 20             | -        | 10 animal & 260 |
|                       |                |          | bird            |
| Other enterprises     | -              | -        |                 |
| Total                 | 25620          | 194      | 10 animal & 260 |
|                       |                |          | bird            |
| Grand Total           |                |          |                 |

## 3. Technology Assessment & Refinement

| Category                   | No. of Technology  | No. of Trials | No. of Farmers |
|----------------------------|--------------------|---------------|----------------|
|                            | Assessed & Refined |               |                |
| <b>Technology Assessed</b> |                    | 79            | 79             |
| Crops                      | 09                 | 30            | 30             |
| Livestock                  | 02                 | -             | -              |
| Various enterprises        | -                  | 109           | 109            |
| Total                      | 11                 |               |                |
| Technology Refined         | -                  |               |                |
| Crops                      | -                  |               |                |
| Livestock                  | -                  |               |                |
| Various enterprises        | -                  |               |                |
| Total                      | -                  |               |                |
| Grand Total                | 11                 | 109           | 109            |

## **4.** Extension Programmes

| Category                   | No. of Programmes | Total Participants |
|----------------------------|-------------------|--------------------|
| Extension activities       | 47                | 11246              |
| Other extension activities | 09                | 2279               |
| Total                      |                   |                    |

## 5. Mobile Advisory Services

|                |                             | Type of Messages |               |             |                |                    |                         |            |
|----------------|-----------------------------|------------------|---------------|-------------|----------------|--------------------|-------------------------|------------|
| Name of<br>KVK | Message Type                | Crop             | Livesto<br>ck | Weathe<br>r | Mark<br>e-ting | Awar<br>e-<br>ness | Other<br>enterpri<br>se | Total      |
|                | Text only                   | 27               | 05            | 00          | 04             | 01                 | 00                      | 37         |
| Patan          | Voice only                  |                  |               |             |                |                    |                         |            |
|                | Voice & Text both           |                  |               |             |                |                    |                         |            |
|                | <b>Total Messages</b>       | 27               | 05            | 00          | 04             | 01                 | 00                      | 37         |
|                | Total farmers<br>Benefitted | 243541           | 56507         | 00          | 30956          | 2701<br>0          | 00                      | 35801<br>4 |

## 6. Seed & Planting Material Production

|                            | Quintal/Number | Value Rs. |
|----------------------------|----------------|-----------|
| Seed (q)                   | 19.3           | 83070     |
| Seed (q)                   | 24.4           | Stock     |
| Planting material (No.)    | 71364          | 56462     |
| Bio-Products (kg)          | 3715           | 18450     |
| Livestock Production (No.) | -              | -         |
| Fishery production (No.)   | -              | -         |

# 7. Soil, water & plant Analysis

| Samples | No. of Beneficiaries | Value Rs. |
|---------|----------------------|-----------|
| Soil    | 180                  | -         |
| Water   | -                    | -         |
| Plant   | -                    | -         |
| Total   | 180                  | -         |

## 8. HRD and Publications

| Sr. No. | Category                    | Number |
|---------|-----------------------------|--------|
| 1       | Workshops                   | 01     |
| 2       | Conferences                 | 01     |
| 3       | Meetings                    | 05     |
| 4       | Trainings for KVK officials | 18     |
| 5       | Visits of KVK officials     | 08     |
| 6       | Book published              | -      |
| 7       | Training Manual             | -      |
| 8       | Book chapters               | -      |
| 9       | Research papers             | 04     |
| 10      | Lead papers                 | -      |
| 11      | Seminar papers              | -      |
| 12      | Extension folder            | 06     |
| 13      | Proceedings                 | -      |
| 14      | Award & recognition         | 01     |
| 15      | On going research projects  | -      |