

## ANNUAL REPORT 2016 (April 2016 to March 2017)

### 1. GENERAL INFORMATION ABOUT THE KVK

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

| Address                            | Telephone  |     | E mail                                                             |
|------------------------------------|------------|-----|--------------------------------------------------------------------|
|                                    | Office     | FAX |                                                                    |
| K.V.K., Gandhar, Jehanabad (Bihar) | 9431479522 |     | <a href="mailto:jehanabadkvk@gmail.com">jehanabadkvk@gmail.com</a> |

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

| Address                                                         | Telephone    |              | E mail                                                             |
|-----------------------------------------------------------------|--------------|--------------|--------------------------------------------------------------------|
|                                                                 | Office       | FAX          |                                                                    |
| Bihar Agricultural University, Bhagalpur, (Sabour) PIN – 848125 | 0641-2458611 | 0641-2452604 | <a href="mailto:deebausabour@gmail.com">deebausabour@gmail.com</a> |

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

| Name                   | Telephone / Contact |            |                                                                    |
|------------------------|---------------------|------------|--------------------------------------------------------------------|
|                        | Residence           | Mobile     | Email                                                              |
| Dr. (Mrs.) Shobha Rani | 06114-225542        | 9431479522 | <a href="mailto:jehanabadkvk@gmail.com">jehanabadkvk@gmail.com</a> |

#### 1.4. Year of sanction of KVK: 2006 [Sanction Order F. No. 18027/960AE0I (Pt.)

Date of Sanction 24.03.2006

Year of Inception = 2006

### 1.5. Staff Position (as on 1<sup>st</sup> April, 2017)

| Sl. No. | Sanctioned post             | Name of the incumbent  | Designation                            | Discipline     | Pay Scale with present basic | Date of joining | Permanent /Temporary | Category (SC/ST/OBC/ Others) |
|---------|-----------------------------|------------------------|----------------------------------------|----------------|------------------------------|-----------------|----------------------|------------------------------|
| 1       | Programme Coordinator       | Dr. (Mrs.) Shobha Rani | Programme Co-ordinator                 | Home Science   | 37400-67000                  | 15.05.2012      | Permanent            | Others                       |
| 2       | Subject Matter Specialist   | Dr. Dinesh Mahto       | Subject Matter Specialist              | Animal Science | 15600-39100                  | 16.04.2012      | Permanent            | OBC                          |
| 3       | Subject Matter Specialist   | Er. Jeetendra Kumar    | Subject Matter Specialist              | Argil. Engg.   | 15600-39100                  | 07.04.2012      | Permanent            | OBC                          |
| 4       | Subject Matter Specialist   | Dr. Wajid Hasan        | Subject Matter Specialist              | Entomology     | 15600-39100                  | 16.04.2012      | Permanent            | Gen                          |
| 5       | Subject Matter Specialist   | Sri Ajit Kumar Paswan  | Subject Matter Specialist              | Agronomy       | 15600-39100                  | 19.04.2012      | Permanent            | SC                           |
| 6       | Subject Matter Specialist   | -                      | -                                      | -              | -                            | -               | -                    | -                            |
| 7       | Subject Matter Specialist   | -                      | -                                      | -              | -                            | -               | -                    | -                            |
| 8       | Programme Assistant         | Kundan Kumar           | Programme Assistant (Lab. Tech)        |                | 9300-34800                   | 29.10.2012      | Permanent            | OBC                          |
| 9       | Computer Programmer         | Manoj Kumar            | Programme Assistant (Comp.)            | -              | 9300-34800                   | 13.05.2013      | Permanent            | Gen                          |
| 10      | Farm Manager                | Ram lakhan Thakur      | Farm Manager                           | -              | 9300-34800                   | 26.10.2012      | Permanent            | OBC                          |
| 11      | Accountant / Superintendent | Dhananjay Kumar        | Office Superintendent –cum- Accountant | —              | 9300-34800                   | 15-04-2013      | Permanent            | Gen                          |
| 12      | Stenographer                | Biswajit Datta         | Stenographer                           |                | 5200-20200                   | 21.06.2013      | Permanent            | Gen                          |
| 13.     | Driver                      | Ayush Kumar            | Driver                                 | —              | 5200-20200                   | 11.05.15        | Permanent            | SC                           |
| 14.     | Driver                      | Vijay Kumar            | Driver                                 | -              | 5200-20200                   | 18.05.15        | Permanent            | OBC                          |
| 15.     | Supporting staff            | Sri Sanjay Kumar       | Supporting Staff                       | —              | Consolidated                 | 11.06.2007      | Temporary            | Gen                          |
| 16.     | Supporting staff            | Kshatrapati Singh      | Supporting Staff                       | -              | Consolidated                 | 2014            | Temporary            | Gen                          |



## 1.6. Total land with KVK (in ha) :10

| S. No. | Item                      | Area (ha) |
|--------|---------------------------|-----------|
| 1.     | Under Buildings           | 1.00      |
| 2.     | Under Demonstration Units | 0.35      |
| 3.     | Under Crops               | 6.00      |
| 4.     | Orchard/Agro-forestry     | 0.276     |
| 5.     | Pond                      | 0.836     |
| 6.     | Polyhouse                 | 0.06      |
| 7.     | Green House               | 0.008     |
| 8.     | Vermicompost              | 0.00038   |
| 9.     | Under Roads               | 1.46962   |

Total area should be matched with breakup

## 1.7. Infrastructure Development:

## A) Buildings and others

| S. No. | Name of infrastructure          | Not yet started | Completed up to plinth level | Completed up to lintel level | Completed up to roof level | Totally completed | Plinth area (sq.m)  | Under use or not* | Source of funding |
|--------|---------------------------------|-----------------|------------------------------|------------------------------|----------------------------|-------------------|---------------------|-------------------|-------------------|
| 1.     | Administrative Building         |                 |                              |                              |                            | Yes               | 500m <sup>2</sup>   | under use         | ICAR              |
| 2.     | Farmers Hostel                  |                 |                              |                              |                            |                   | 300m <sup>2</sup>   | Yes               | ICAR              |
| 3.     | Staff Quarters (6)              |                 |                              |                              |                            |                   | 315m <sup>2</sup>   | under use         | ICAR              |
| 4.     | Piggery unit                    |                 |                              |                              |                            |                   |                     |                   |                   |
| 5.     | Fencing                         |                 |                              |                              |                            | 50% Comp.         | 2650ft <sup>2</sup> |                   | ICAR              |
| 6.     | Rain Water harvesting structure |                 |                              |                              |                            |                   | -                   |                   | -                 |
| 7.     | Threshing floor                 |                 |                              |                              |                            |                   | 40m <sup>2</sup>    | Yes               | ICAR              |
| 8.     | Farm godown                     |                 |                              |                              |                            |                   | 70m <sup>2</sup>    | Yes               | ICAR              |
| 9.     | Dairy unit                      |                 |                              |                              |                            |                   |                     |                   |                   |
| 10.    | Poultry unit                    |                 |                              |                              |                            |                   |                     |                   |                   |
| 11.    | Goatary unit                    |                 |                              |                              |                            |                   |                     |                   |                   |
| 12.    | Mushroom Lab                    |                 |                              |                              |                            |                   |                     |                   |                   |
| 13.    | Mushroom production unit        |                 |                              |                              |                            | Yes               | 750 m <sup>2</sup>  | Yes               | ICAR              |
| 14.    | Shade house                     |                 |                              |                              |                            |                   |                     |                   |                   |
| 15.    | Soil test Lab                   |                 |                              |                              |                            |                   |                     |                   |                   |
| 16.    | Others, (Seed Processing Unit)  |                 |                              |                              |                            |                   | 60m <sup>2</sup>    |                   | RAU               |
| 17.    | Veg. Processing Unit            |                 |                              |                              |                            | Yes               | -----               | Yes               | ICAR              |
|        |                                 |                 |                              |                              |                            |                   |                     |                   |                   |

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

## B) Vehicles

| Type of vehicle         | Year of purchase | Cost (Rs.)              | Total km. Run as on 31.03.2017 | Present status |
|-------------------------|------------------|-------------------------|--------------------------------|----------------|
| BOLERO-LX               | 29.06.2006       | 4,15,436.50 + 12.5% VAT | 193286                         | Condemned      |
| Motor bike, BR01CR 8038 | 2015-16          | 60000                   | 5569                           | Functional     |
| Motor bike, BR01CR 8039 | 2015-16          | 60000                   | 6937                           | Functional     |

## C) Equipment &amp; AV aids

| Name of equipment                     | Year of purchase | Cost (Rs.) | Present status                                  | Source of fund              |
|---------------------------------------|------------------|------------|-------------------------------------------------|-----------------------------|
| <b>a. Lab equipment</b>               |                  |            |                                                 |                             |
| P.P Cap Sealing Machine               | 2015-16          | 10000      | Working                                         | ICAR                        |
| Crown corking machine                 | 2015-16          | 7000       | Working                                         | ICAR                        |
| Lug Cap sealer                        | 2015-16          | 12000      | Working                                         | ICAR                        |
| Heavy Duty Mixture Grinder            | 2015-16          | 12000      | Working                                         | ICAR                        |
| Pulper                                | 2015-16          | 30000      | Working                                         | ICAR                        |
| Fruit mill junior                     | 2015-16          | 12000      | Working                                         | ICAR                        |
| Dehydrator Electrical                 | 2015-16          | 70000      | Working                                         | ICAR                        |
| Vacuum Filer                          | 2015-16          | 33000      | Working                                         | ICAR                        |
| Vegetable Juicer                      | 2015-16          | 32000      | Working                                         | ICAR                        |
| Bio-metric system                     | 2013-14          | 24750      | Working                                         | ICAR                        |
| Cabinet                               | 2013-14          | 4750       | Working                                         | ICAR                        |
| Battery                               | 2013-14          | 4950       | Working                                         | ICAR                        |
| <b>b. Farm machinery</b>              |                  |            |                                                 |                             |
| Tractor                               | 22-07-08         |            | Working                                         | Received from DEE, RAU Pusa |
| Mobile Seed Processing machine        |                  | -          | Working                                         | Received from Bihar Govt.   |
| Power Reaper                          | 2013-14          | 100000     | Working                                         | ICAR                        |
| Power Reaper                          | 2011-12          | 86700      | Working                                         | NICRA                       |
| <b>c. AV Aids</b>                     |                  |            |                                                 |                             |
| LCD Projector & Accessories           | 2010-11          | 47736.00   | Good                                            | ICAR                        |
| Multimedia Projector                  | 2010-11          | 33750.00   | Good                                            | ICAR                        |
| Digital Copier                        | 2010-11          | 63898.00   | Need Repair                                     | ICAR                        |
| Stabliser                             | 2010-11          | 7800.00    | Need Repair                                     | ICAR                        |
| Desktop Computer with monitor (NICRA) | 2010-11          | 43434.00   | Good                                            | ICAR                        |
| HP Laser Printer (NICRA)              | 2010-11          | 5938.00    | Good                                            | ICAR                        |
| UPS System (NICRA)                    | 2010-11          | 2000.00    | Good                                            | ICAR                        |
| P/A System                            | 2010-11          | 25451.00   | Good                                            | ICAR                        |
| HD 8000HD                             | 2015-16          | 222823.10  | Good                                            | ICAR                        |
| MPT Camera                            | 2015-16          |            | Good                                            | ICAR                        |
| MIC                                   | 2015-16          |            | Good                                            | ICAR                        |
| Panasonic 47 LED                      | 2015-16          | 69565.00   | Good                                            | ICAR                        |
| Dell Monitor                          | 2015-16          | 62839.00   | Good                                            | ICAR                        |
| CPU                                   | 2015-16          |            | Good                                            | ICAR                        |
| 8/16 Ethernet switch                  | 2015-16          |            | Good                                            | ICAR                        |
| Wall Mount Rack                       | 2015-16          | 4259.00    | Good                                            | ICAR                        |
| Patchcord                             | 2015-16          | 426.00     | Good                                            | ICAR                        |
| Patchcord (Digni Link)                | 2015-16          | 213.0      | Good                                            | ICAR                        |
| UPS 5KVA Orian                        | 2015-16          |            | Good                                            | ICAR                        |
| Battery                               | 2015-16          |            | Good                                            | ICAR                        |
| Rack                                  | 2015-16          |            | Good                                            | ICAR                        |
| Microtake UPS                         | 2015-16          | 2975.00    | Burned by electric Short Circuit in PC chamber. | ICAR                        |
| Video conferencing unit               | 2015-16          | -          | Working                                         | Provided by BAU, Sabour     |
| Mridapriksak Soil test lab.           | 2015-16          | 75000      | Working                                         | NICRA                       |

|                                                  |         |          |         |                         |
|--------------------------------------------------|---------|----------|---------|-------------------------|
| AC + Stabilizer                                  | 2015-16 | 43100    | Working | ICAR                    |
| RO water purifier+ Accessories                   | 2015-16 | 20000    | Working | ICAR                    |
| Computer System (Monitor, CPU, UPS, Laptop)      | 2015-16 | 82583    | Working | Provided by BAU, Sabour |
| CCTV cam & DVR                                   | 2015-16 | 21000    | Working | Provided by BAU, Sabour |
| LED flood light                                  | 2015-16 | 6500     | Working | Provided by BAU, Sabour |
| Sound System                                     | 2015-16 | 30165    | Working | Provided by BAU, Sabour |
| Video Camera (Sony)                              | 2015-16 | 82871    | Working | Provided by BAU, Sabour |
| Projector with Tripod<br>Projector Screen (Sony) | 2015-16 | 52000    | Working | Provided by BAU, Sabour |
| Xerox Photo Copier cum printer                   | 2016-17 | 57142.86 | Working | Provided by BAU, Sabour |
| Xerox Drum Cartridge                             | 2016-17 | 20296.19 | Working | Provided by BAU, Sabour |
| Xerox Toner Cartridge                            | 2016-17 | 6308.58  | Working | Provided by BAU, Sabour |
| Trolley Photo Copier                             | 2016-17 | 5502.18  | Working | Provided by BAU, Sabour |
| Stabilizer for photocopier                       | 2016-17 | 4585.15  | Working | Provided by BAU, Sabour |
| Computer Table                                   | 2016-17 | 3450     | Working | ICAR                    |
| Water Cooler+ Euro Aqua                          | 2016-17 | 59500    | Working | Provided by BAU, Sabour |
| LED TV 32(Panasonic)                             | 2016-17 | 27200    | Working | Provided by BAU, Sabour |
| Still Photographic camera (Canon)                | 2016-17 | 29600    | Working | Provided by BAU, Sabour |
| External hard Drive (Lenovo) 1 Tb                | 2016-17 | 5600     | Working | Provided by BAU, Sabour |
| Vacuum Cleaner                                   | 2016-17 | 9950     | Working | Provided by BAU, Sabour |
| Fire Extinguisher                                | 2016-17 | 9649     | Working | Provided by BAU, Sabour |

#### D) Farm implements

| Name of equipment             | Year of purchase | Cost (Rs.) | Present status | Source of fund              |
|-------------------------------|------------------|------------|----------------|-----------------------------|
| Zerotill seed cum fert. Drill | 2011-12          | 57750      | working        | NICRA, RKVY                 |
| Rotavator                     | 2011-12          | 99750      | working        | NICRA, RKVY                 |
| M.B Plough                    | 2011-12          | 20160      | working        | NICRA                       |
| Disc Harrow                   | 2011-12          | 38325      | working        | NICRA                       |
| Leveller                      | 2011-12          | 13125      | working        | NICRA                       |
| Cultivator                    | 2011-12          | 25725      | working        | RKVY                        |
| Multicrop thresher            | 2011-12          |            | working        | RKVY                        |
| Conoweeder                    | 2011-12          | 1850       | working        | ICAR                        |
| winnower                      | 2011-12          | 2850       | working        | ICAR                        |
| M.B Plough                    | 2006-07          |            | working        | Received from DEE, RAU Pusa |
| Disc Harrow                   | 2006-07          |            | working        |                             |
| Leveller                      | 2006-07          |            | working        |                             |
| Brush cutter                  | 2015-16          | 28300      | Working        | ICAR                        |
| Paddy transplanter            | 2016-17          | 190000     | Working        | NICRA                       |
| Raised bed planter            | 2016-17          | 70000      | In process     | NICRA                       |
| Direct seeded rice machine    | 2016-17          | 65000      | In process     | NICRA                       |
| Bund Farm Disc model          | 2016-17          | 18780      | Working        | NICRA                       |

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

Date: 08.09.2016

Number of Participants: 41

| Salient Recommendations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Action taken                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Efforts to be made for the availability of Rhizobium culture &amp; Trichoderma for the farmers.</li> <li>Technical bulletins should be provided with technology input.</li> <li>Training should be organised on fisheries.</li> <li>Training should be conducted on Mushroom cultivation.</li> <li>OFT on Maize weed &amp; use of hydrogel should be replaced whereas OFT on Pashu Chocolate should be taken in FLD.</li> <li>Training should be organised on balanced diet for animals &amp; Dairy management.</li> <li>Village seed production programmes should be conducted in participatory mode.</li> <li>Master trainers should be developed in each block regarding awareness on vaccination.</li> <li>Vacant post of scientist should be filled up for more efficient work by KVK.</li> <li>District line department should take initiative to transfer the KVK technologies.</li> <li>Group farming should be promoted.</li> <li>Certificate should be provided to bee keepers for migration of bee boxes outside the state.</li> <li>Compliance of the last SAC recommendations should be reported in detail.</li> <li>Established/Market available technology should be taken directly for FLD. There is no need of OFT for the same.</li> <li>Mushroom spawn should be made available to farmers in coordination with District line department.</li> <li>The OFT on probiotice &amp; Antibiotic in Animal Science should be conducted after proper discussion with scientists of BVC, Patna</li> <li>OFT/FLD on Bhindi plucker and hand gloves should be done</li> </ul> | <p>Rhizobium culture is being provided<br/>Followed</p> <p>Conducted<br/>Conducted</p> <p>Followed</p> <p>Conducted</p> <p>Conducted with pulse crop (Lentil)<br/>In process</p> <p>-</p> <p>Followed</p> <p>Followed by way of Cluster demo<br/>-</p> <p>Followed<br/>Followed</p> <p>Spawn being provided through FLD</p> <p>Discussion made<br/>Will be done in 2017-18</p> |

*\* Salient recommendation of SAC in bullet form*

*Attach a copy of SAC proceedings along with list of participants*

2.a. District level data on agriculture, livestock and farming situation (2016-17)

| Sl. no. | Item                            | Information                                                   |
|---------|---------------------------------|---------------------------------------------------------------|
| 1       | Major Farming system/enterprise | Paddy – Wheat/pulses- Moong (paddy- wheat/pulses-Moong). Also |

|   |                                                                                                |                                                                                                                                                                                                                                                                       |
|---|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                | cultivation of oil seeds (Rai, Mustered), Potato, vegetables                                                                                                                                                                                                          |
| 2 | Agro-climatic Zone                                                                             | NARP Zone – III B: The area is alluvial plains with general slope towards North to East. The soils of the zones are classified as old alluvial. The agro climatic condition of the district offers excellent scope for plantation, medicinal and horticultural crops. |
| 3 | Agro ecological situation                                                                      | Humid-hot climate: Rich in both ground and surface water resources and thus it is suitable for agriculture and fishery development                                                                                                                                    |
| 4 | Soil type                                                                                      | Old alluvial-Clay: Hard in texture and low in organic matter contents<br>Old alluvial – Loamy: Comparatively brittle and high in organic matter contents                                                                                                              |
| 5 | Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others | Rice- 56.03, Wheat-39.0, Chickpea-11.18, Lentil-11.8, Oilseeds-9.0 <i>Qt./ha</i>                                                                                                                                                                                      |
| 6 | Mean yearly temperature, rainfall, humidity of the district                                    | Mean temp. max=32.84 <sup>0</sup> min=15.62 <sup>0</sup> , Humidity Max=99%<br>Min=26.66%, Mean Annual rainfall=1051mm                                                                                                                                                |
| 7 | Production of major livestock products like milk, egg, meat etc.                               | Av. Milk: cross breed: 5.78 kg /day Desi: 1.81kg /day /animal ,<br>Buffalo: 3.65kg/day/animal ,<br>poultry :Desi : 3077 lakh ,Improved: 3912 lakh, Duck: 413 lakh ,<br>Meat: sheep 7.98 kg/animal ,<br>Goat: 7.88 kg /animal ,<br>Pig: 25.54 kg/animal                |

## 2.b. Details of operational area / villages (2016-17)

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

Name of the villages adopted by PC and SMS in 2016-17) for its development and action plan

| Name of village |                  | Block             | Action taken for development                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |
|-----------------|------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Jaikishunbigha  |                  | Modan ganj        | CFLD on lentil, chickpea, Vermi compost production, Technology demonstration for additional income (Livestock, Kitchen Gardening), Spice cultivation (Coriander), Drought tolerant paddy (Ardhahal, S. Surbhit), Paddy cultivation by SRI method, DSR paddy, Food preservation, Short duration potato, planting materials of fruits, Participatory PMFBY, Kharif & Rabi Kisan Sammelan, soil day, exposure visit, Rabi Kisan Mela, Kharif Kisan Mela, backyard poultry, participatory seed production etc. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |
| Sl. No.         | Name of Taluk    | Name of the block | Name of the village                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Major problems identified (crop-wise)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Identified Thrust Areas                                                                                               |
| 1.              | Taluk Jehan abad | Modan ganj        | Keshopur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CFLD on pulses, Improved varieties of wheat, Rai var, R. suflam, lentil var- HUL 57, Paddy, wheat, False smut, stem borer in paddy, Drought in integrated pest and drought tolerant paddy variety Sahbhagi, Direct sowing of paddy by paddy seeder, plastic mulching in okra, Kharif, Supplement of Mineral Mixture with disease management, training, Kisan club formation, participation in PMFBY programme, BAU Kisan Mela and exhibition, Kharif & Rabi Kisan Mela, soil day, Malaga soil day, | weed                                                                                                                  |
| 2.              |                  | Kako              | Keshopur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Exposure visit, Integrated pest management, DSR, Rabi Kisan Mela, Kharif Kisan Mela, horticultural exhibition, Swachha Bharat Mission programme etc.                                                                                                                                                                                                                                                                                                                                               | weed                                                                                                                  |
| 3.              |                  | Modan ganj        | Rampur charui                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vaccination programme, CFLD on pulses, infertility camp, OET, FLD (Mineral mixture, fodder grass), training, False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, infertility, & repeat breeding in cattle, Participation in PMFBY, Kharif & Rabi Kisan Mela, soil day, Rabi kisan mela, Kharif kisan mela, FLD on DSR, CFLD on oilseed and pulses etc.                                                                                                              | Integrated pest and disease management, livestock management                                                          |
| 4.              |                  | Kako              | Safepur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Promoted vegetable cultivation by training, conducting OET on disease, and pest management in Okra, Technology demonstration for extra income generation, Kitchen Gardening, Rural Youth training on Bee keeping, Kisan club, participation in BAU Kisan Mela, FLD on DSR, Technology demonstration to promote pulse                                                                                                                                                                               | Integrated pest and disease management                                                                                |
| 5.              |                  | Kako              | Khalispur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Paddy, wheat, HUL 57, False smut, stem borer, gandhi bug in paddy, pulses flower, Pod borer and wilt disease in pulses, Rabi Kisan Mela, Kharif Kisan Mela, soil day, Swachha Bharat Mission programme, CFLD on oilseed and pulses etc.                                                                                                                                                                                                                                                            | Integrated pest and disease management, weed management                                                               |
| 6.              |                  | Ghosi             | Khalispur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OET on weed management in paddy and wheat for higher yield, Demonstration on Paddy, wheat, False smut, stem borer, gandhi bug in paddy, Chickpea var. GNC 1581, Pod borer and wilt disease in pulses, Rabi Kisan Mela, Kharif Kisan Mela, soil day, Swachha Bharat Mission programme, CFLD on oilseed and pulses etc.                                                                                                                                                                              | Integrated pest and disease management, weed management                                                               |
| 7.              |                  | Modan ganj        | Sakona                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Paddy, wheat, pulses, oilseed, livestock management, False smut, stem borer, gandhi bug in paddy, pink borer and termite in wheat, Supplement of mineral mineral mixture & fodder seed, infertility & repeat breeding in cattle, PPR in goat, contagious disease of poultry, Nutritional deficiency in cattle                                                                                                                                                                                      | Water conservation, IPM, livestock management                                                                         |
| 8.              |                  | Modan ganj        | Bandhuganj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Paddy, wheat, pulses, oilseed                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BPH, False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses                                |
| 9.              |                  | Ratni Faridpur    | sesamba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Paddy, wheat, pulses, oilseed, livestock                                                                                                                                                                                                                                                                                                                                                                                                                                                           | False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, PPR in goat, infertility in cattle |
| 10.             |                  | Makhdumpur        | Sarthua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Paddy, wheat, pulses, Vegetables                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | False smut, stem borer, gandhi bug in paddy, Pod borer and wilt disease in pulses, Fruit borer and blight in brinjal  |
| 11.             |                  | Modan ganj        | Dhamapur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Paddy, wheat, pulses                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CFLD on chickpea, lentil, Zero tillage wheat                                                                          |
| 12.             |                  | Makhdumpur        | Dharaut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Paddy, wheat, pulses, oilseed, poultry                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Insect-pest management in different crops, improved varieties of different crops                                      |
| 13.             |                  | Kako              | Afjalpur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Paddy, wheat, pulses                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CFLD, Lentil variety, training                                                                                        |
| 14.             |                  | Modan ganj        | Arhit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Paddy, wheat, pulses                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DSR, training, CFLD on pulses and oilseed                                                                             |
| 15.             |                  | Modan ganj        | Chhotaki Akauna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Paddy, wheat, pulses                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CFLD on pulses and oilseed                                                                                            |
| 16.             |                  | Ghosi             | Daharpur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Paddy, wheat, pulses                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CFLD on pulses and oilseed                                                                                            |
| 17.             |                  | Modan ganj        | Mustafapur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Paddy, wheat, pulses                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CFLD on pulses and oilseed                                                                                            |
| 18.             |                  | Ghosi             | Chhapanna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Paddy, wheat, pulses                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CFLD on pulses and oilseed                                                                                            |

## 2. d. Sansad Adarsh Gram Yojona

- i) Name of the village under Sansad Adarsha Gram Yojona: Dharaut (Block-Makhdumpur)
- ii) Contribution of KVK in the programme:
  - Organized Animal Health Checkup cum vaccination Programme
  - Demonstration on Poultry
  - Training programme

## 2.1 Priority thrust areas

| S. No | Thrust area                                                                                                                                                                     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.    | Quality seed production                                                                                                                                                         |
| 2.    | Crop diversification.                                                                                                                                                           |
| 3.    | Integrated Disease Management.                                                                                                                                                  |
| 4.    | Promotion of agri-enterprises i.e. Beekeeping, Vermi Compost Production, Plant Health Clinic & Mushroom Production for self-employment and income generation among rural youths |
| 5.    | Promotion of Resource conservation Technologies.                                                                                                                                |
| 6.    | Gender mainstreaming through SHG's.                                                                                                                                             |
| 7.    | Integrated Pest Management.                                                                                                                                                     |
| 8.    | Promotion of Biofertilizers application & organic farming system.                                                                                                               |
| 9.    | Skill up gradation in livestock management for income generation.                                                                                                               |
| 10.   | Nutritional Management in cattle.                                                                                                                                               |
| 11.   | Water management with respect to climate change.                                                                                                                                |

3. TECHNICAL ACHIEVEMENTS

## 3. A. Details of target and achievement of mandatory activities by KVK during 2016-17

| OFT            |             |                   |             | FLD excluding CFLD |             |                   |             |
|----------------|-------------|-------------------|-------------|--------------------|-------------|-------------------|-------------|
| Number of OFTs |             | Number of farmers |             | Number of FLDs     |             | Number of farmers |             |
| Target         | Achievement | Target            | Achievement | Target             | Achievement | Target            | Achievement |
| 10             | 14          | 67                | 157         | 12                 | 13          | 300               | 326         |

| Training          |             |                        |             | Extension activities |             |                        |             |
|-------------------|-------------|------------------------|-------------|----------------------|-------------|------------------------|-------------|
| Number of Courses |             | Number of Participants |             | Number of activities |             | Number of participants |             |
| Target            | Achievement | Target                 | Achievement | Target               | Achievement | Target                 | Achievement |
| 111               | 175         | 3540                   | 5771        | 4438                 | 7557        | 10000                  | 18461       |

| Seed production (q) |             | Planting material (Nos.) |             |
|---------------------|-------------|--------------------------|-------------|
| Target              | Achievement | Target                   | Achievement |
| 250                 | 264.31      | 13750                    | 13750       |

## 3.1 Achievements on technologies assessed and refined

**OFT-1. Agronomy**

|    |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On Farm Trial                                      | To reduce the terminal heat effect in wheat.                                                                                                                                                                                                                                                                                                                                                          |
| 2. | Problem diagnosed                                           | Low yield as a result of terminal heat stress in wheat                                                                                                                                                                                                                                                                                                                                                |
| 3. | Details of technologies selected for assessment/refinement. | Technical Option 1(Farmers Practice) : Irrigating the crop as and when required in month of March<br>Technical Option 2: Foliar application of potassium nitrate (KNO <sub>3</sub> )@ 0.5% at flag leaf emergence stage<br>Technical Option 3: Planting of sunflower rows in E-W direction at 10 feet distance<br>Technical Option 4: Planting of sunflower rows in N-S direction at 10 feet distance |
| 4. | Source of Technology                                        | Punjab Agricultural University, Ludhiyana                                                                                                                                                                                                                                                                                                                                                             |
| 5. | Production system and thematic area                         | ICM                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6. | Performance of the technology with performance indicators   | No. of effective tillers/ m <sup>2</sup> ,No. of grains per ear head, Yield, BC ratio                                                                                                                                                                                                                                                                                                                 |
| 7. | Final recommendation for micro level situation              | :Foliar application of potassium nitrate (KNO <sub>3</sub> )@ 0.5% at flag leaf emergence stage                                                                                                                                                                                                                                                                                                       |
| 8. | Constraints identified and feedback for research            | -                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9. | Process of farmer participation and their reaction          | Active participation of farmers being observed.                                                                                                                                                                                                                                                                                                                                                       |



Table: 2 No. of replication: 5

| Technology option                                                                                  | Yield component                          |                            |                           | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|----------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------|---------------------------|--------------|------------------------------|----------------------|---------------------|----------|
|                                                                                                    | No. of effective tillers/ m <sup>2</sup> | No. of grains per ear head | Test wt. (1000 grain wt.) |              |                              |                      |                     |          |
| TO1 (Farmer Practice):<br>Irrigating the crop as and when required in month of March               | 372                                      | 65                         | 37.9                      | 34           | 30200                        | 55250                | 25050               | 1.82     |
| TO2:Foliar application of potassium nitrate (KNO <sub>3</sub> )@ 0.5% at flag leaf emergence stage | 417                                      | 74                         | 40.78                     | 38.2         | 31250                        | 62075                | 30850               | 1.98     |
| TO3:Planting of sunflower rows in E-W direction at 10 feet distance                                | 402                                      | 68                         | 40.08                     | 35.5         | 30600                        | 57687.5              | 27087.5             | 1.88     |
| TO4:Planting of sunflower rows in N-S direction at 10 feet distance                                | 389                                      | 70                         | 39.02                     | 34.6         | 30600                        | 56225                | 25625               | 1.83     |

**Results:**

The result reveals that the Technology Option 2 (Foliar application of potassium nitrate (KNO<sub>3</sub>)@ 0.5% at flag leaf emergence stage) Produced highest grain yield as 38.2 q/ha with highest B:C ratio (1:1.98) followed by Technology Option 3, (Planting of sunflower rows in E-W direction at 10 feet distance) yield 35.5 q/ha , B:C ratio (1:1.88). In the Technical Option 4,(Planting of sunflower rows in N-S direction at 10 feet distance)yielded 34.6 q/ha with B:C ratio (1:1.83) and lower grain yield recorded 34 q/ha and B:C ratio (1:1.82) from farmers practice plot. The Technology Option 2 can be recommended to minimize the effect of terminal heat stress in wheat.

**OFT: 2**

|    |                                                             |                                                                                                                |
|----|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. | Title of On Farm Trial                                      | Evaluation of different herbicides to control cuscute in lentil.                                               |
| 2. | Problem diagnosed                                           | Low yield of lentil due to infestation of cuscute                                                              |
| 3  | Details of technologies selected for assessment/refinement. | Technical Option 1(Farmers Practice): No control measure<br>Technical Option 2: Pendimethalin 30 EC @ 3.3 L/ha |

|   |                                                           |                                                                                                                                           |
|---|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                           | Technical Option 3: Imazathypr 40 g a.i. /ha<br>Technical Option 4: Pendimethalin 30 EC @ 3.3 L/ha followed by Emazathapyr 30 g a.i. /ha. |
| 4 | Source of Technology                                      | IIPR                                                                                                                                      |
| 5 | Production system and thematic area                       | Weed management                                                                                                                           |
| 6 | Performance of the technology with performance indicators | No. of effective tillers/ m <sup>2</sup> ,No. of grains per ear head, Yield, BC ratio                                                     |
| 7 | Final recommendation for micro level situation            | Pendimethalin as well as Imazathypr alone can reduce the weed problems in lentil production.                                              |
| 8 | Constraints identified and feedback for research          | New molecules may be tested for weeds in lentil                                                                                           |
| 9 | Process of farmer participation and their reaction        | Active participation of farmers observed.                                                                                                 |

Table: 2 No. of replication: 05

| Technology option                                                                     | Yield component           |                       |                             | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---------------------------------------------------------------------------------------|---------------------------|-----------------------|-----------------------------|--------------|------------------------------|----------------------|---------------------|----------|
|                                                                                       | No. of branches per plant | No. of grains per pod | Test wt. (1000grain wt.) gm |              |                              |                      |                     |          |
| Tech. Option 1:No control measures                                                    | 9                         | 1.69                  | 19.02                       | 13.2         | 17200                        | 52140                | 34940               | 1:3.03   |
| Tech. Option 2: Pendimethalin 30 EC @ 3.3 L/ha                                        | 14.06                     | 1.88                  | 20.50                       | 16.5         | 18700                        | 65175                | 46475               | 1:3.48   |
| Tech.Option 3: Imazathypr 40 g a.i. /ha                                               | 11.9                      | 1.74                  | 19.34                       | 15           | 18280                        | 59250                | 40970               | 1:3.24   |
| Tech. option 4: Pendimethalin 30 EC @ 3.3 L/ha followed by Imazathapyr 30 g a.i. /ha. | 14.32                     | 1.77                  | 20.37                       | 17.6         | 19700                        | 69500                | 49820               | 1:3.52   |

**Results:**

The results reveal that TO4 (Pendimethalin 30 EC @ 3.3 L/ha followed by Emazathapyr 30 g a.i. /ha.) gave highest yield 17.6 q/ha with a B:C ratio of (1:3.52) followed by TO2 (Pendimethalin 30 EC @ 3.3 L/ha) 16.5q/ha with B:C ratio of (1:3.48), TO 3(Imazathypr 40 g a.i. /ha) 15q/ha with B:C ratio of (1:3.24) while Farmers Practice plot was recorded with the lowest yield 13.2 q/ha with lowest B:C ratio (1:3.03). Therefore it can be concluded that TO2 and TO4 can be recommended to reduce weed occurrence in lentil in Jehanabad district.

**OFT: 3**

|    |                                                             |                                                                                                                                                                                                                                                                                                           |
|----|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On Farm Trial                                      | To reduce Phosphorus requirement by taking advantage of its residual effect in Rice-Wheat Cropping System.                                                                                                                                                                                                |
| 2. | Problem diagnosed                                           | Low yield due to less P-use efficiency                                                                                                                                                                                                                                                                    |
| 3. | Details of technologies selected for assessment/refinement. | Technical Option 1 (Farmers Practice) : N:P:K (150Kg/ha N+40Kg/ha P <sub>2</sub> O <sub>5</sub> )<br>Technical Option 2: Recommended dose of N:P:K (150Kg/ha N+60Kg/ha P <sub>2</sub> O <sub>5</sub> +40 Kg/ha)<br>Technical Option 3: N:P:K (120Kg/ha N+40Kg/ha P <sub>2</sub> O <sub>5</sub> +40 Kg/ha) |
| 4. | Source of Technology                                        | BAU, Sabour                                                                                                                                                                                                                                                                                               |
| 5. | Production system and thematic area                         | INM                                                                                                                                                                                                                                                                                                       |
| 6. | Performance of the technology with performance indicators   | No. of effective tillers/ m <sup>2</sup> ,No. of grains per ear head, Yield, BC ratio                                                                                                                                                                                                                     |
| 7. | Final recommendation for micro level situation              | Recommended dose of N:P:K (150Kg/ha N+60Kg/ha P <sub>2</sub> O <sub>5</sub> +40 Kg/ha) produced good yield.                                                                                                                                                                                               |
| 8. | Constraints identified and feedback for research            | New changes in dose of N:P:K may be tested                                                                                                                                                                                                                                                                |
| 9. | Process of farmer participation and their reaction          | Active participation of farmers being observed.                                                                                                                                                                                                                                                           |

Table: 3 No. of replication: 05

| Technology option                                                                           | Yield component                          |                           |              |                              |                      |                     |           |
|---------------------------------------------------------------------------------------------|------------------------------------------|---------------------------|--------------|------------------------------|----------------------|---------------------|-----------|
|                                                                                             | No. of effective tillers/ m <sup>2</sup> | Test wt. (1000 grain wt.) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | B:C ratio |
| TO1(Farmer Practice): N:P:K (150Kg/ha N+40Kg/ha P <sub>2</sub> O <sub>5</sub> )             | 398                                      | 40                        | 36.5         | 30000                        | 59312.5              | 29312.5             | 1.97      |
| TO2: Recommended dose of N:P:K (150Kg/ha N+60Kg/ha P <sub>2</sub> O <sub>5</sub> +40 Kg/ha) | 441                                      | 40.8                      | 41.8         | 32540                        | 67925                | 35385               | 2.08      |

|                                               |     |      |    |       |       |       |      |
|-----------------------------------------------|-----|------|----|-------|-------|-------|------|
| TO3: N:P:K (120Kg/ha N+40Kg/ha P2O5+40 Kg/ha) | 420 | 39.7 | 39 | 31200 | 63375 | 33175 | 2.03 |
|-----------------------------------------------|-----|------|----|-------|-------|-------|------|

#### Results:

The result reveals that the Technology Option 2 (Recommended dose of N:P:K (150Kg/ha N+60Kg/ha P2O5+40 Kg/ha) produced highest grain yield as 41.8 q/ha with highest B:C ratio (1:2.08) followed by Technology Option 2, (N:P:K (120Kg/ha N+40Kg/ha P2O5+40 Kg/ha)) yield 39 q/ha, B:C ratio (1:2.03). The lowest grain yield was recorded with Farmer Practice plot N:P:K (150Kg/ha N+40Kg/ha P2O5) 36.5 q/ha with B:C ratio (1:1.97). The Technology Option 2 (Recommended dose of N:P:K (150Kg/ha N+60Kg/ha P2O5+40 Kg/ha) can be recommended to increase the P-use efficiency and yield simultaneously

#### OFT: 4

|    |                                                             |                                                                                                                                             |
|----|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On Farm Trial                                      | Evaluation of performance of timely sown variety of chickpea BRC1                                                                           |
| 2. | Problem diagnosed                                           | Low yield due to local variety and lack of improved timely sown variety of chickpea                                                         |
| 3  | Details of technologies selected for assessment/refinement. | Technical Option 1 (Farmers Practice): Local variety timely sown (Pusa 372)<br>Technical Option 2: Variety BRC1<br>Technical Option 3: Uday |
| 4  | Source of Technology                                        | BAU, Sabour                                                                                                                                 |
| 5  | Production system and thematic area                         | Crop improvement                                                                                                                            |
| 6  | Performance of the technology with performance indicators   | Yield, BC ratio                                                                                                                             |
| 7  | Final recommendation for micro level situation              | TO1: Variety BRC1 can be recommended for timely sown improved variety of chickpea in Jehanabad district.                                    |
| 8  | Constraints identified and feedback for research            | New improved variety may be tested for timely sown condition.                                                                               |
| 9  | Process of farmer participation and their reaction          | Active participation of farmers observed.                                                                                                   |

Table: 2 No. of replication: 05

| Technology option                                                       | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|-------------------------------------------------------------------------|--------------|------------------------------|----------------------|---------------------|----------|
| Tech. Option 1 (Farmers Practice): Local variety timely sown (Pusa 372) | 12.6         | 19500                        | 50400                | 30900               | 1:2.58   |
| Tech. Option 2: Variety BRC1                                            | 14.5         | 19500                        | 58000                | 38500               | 1:2.97   |
| Tech.Option 3: Uday                                                     | 13.5         | 19500                        | 54000                | 34500               | 1:2.76   |

#### Result:

The results reveal that TO2 (Variety BRC1) was observed highest yielder 14.5 q/ha with a B:C ratio of (1:2.97) followed by TO3 (Variety Uday) 13.5q/ha with B:C ratio of (1:2.76) while Farmers Practice plot was recorded with the lowest yield 12.6 q/ha with lowest B:C ratio (1:2.58). Therefore it can be concluded that TO2 can be recommended for timely sown improved variety of chickpea in Jehanabad district.

### OFT:1 Entomology

|    |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Management of Leaf folder (LF) <i>Cnaphalocrocis medinalis</i> (Guenee) in paddy                                                                                                                                                                                                                                                                                                                     |
| 2. | Problem diagnose                                           | Cultivation of high yielding varieties and application of high level of nitrogenous fertilizers has result in emergence of leaf folder as a major pest in most rice tracts. In case of severe infestation, the leaf margin and tips are totally dried up and the crop gives a whitish appearance.                                                                                                    |
| 3. | Details of technologies selected for assessment/refinement | Technological Option 01 : Farmer practices (Chlorpyrifos 20 EC @ 500ml/ha and 150 Kg/ha Nitrogen)<br>Technological Option 02 : Nitrogen @100kg/ha and application of Cartap 4G @25 kg/ha (Ist application at Panicle initiation stage and IInd at Flowering stage)<br>Technological Option 03: Spray of Fipronil 5 SC @800 ml/ha (Ist spray at Panicle initiation stage and IInd at Flowering stage) |
| 4. | Source of Technology                                       | Directorate of Rice Research, Hyderabad                                                                                                                                                                                                                                                                                                                                                              |
| 5. | Production system and thematic area                        | Rice-Wheat<br>Integrated Pest Management                                                                                                                                                                                                                                                                                                                                                             |
| 6. | Performance of the Technology with performance indicators  | The infestation of leaf folder decrease and increase yield significantly                                                                                                                                                                                                                                                                                                                             |
| 7. | Final recommendation for micro level situation             | The insecticide Fipronil 5 SC @800 ml/ha and Cartap 4G @25 kg/ha with application of Nitrogen @100kg/ha can be recommended to manage leaf folder insect pests in paddy.                                                                                                                                                                                                                              |
| 8. | Constraints identified and feedback for research           | Assessment of other molecules                                                                                                                                                                                                                                                                                                                                                                        |
| 9. | Process of farmers participation and their reaction        | Actively participated with adaptation of the technology                                                                                                                                                                                                                                                                                                                                              |

Table: No. of replication: 10

| Technology option   | Infestation (%) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---------------------|-----------------|--------------|------------------------------|----------------------|---------------------|----------|
| T1 Farmer practices | 7.2             | 53.52        | 40,000                       | 78,674               | 38,674              | 1.97     |
| T2                  | 1.9             | 55.49        | 41,000                       | 81,570               | 40,570              | 1.99     |
| T3                  | 1.3             | 55.92        | 41,000                       | 82,202               | 41,202              | 2.00     |

**Results: -**

Results revealed that the paddy field treated with Spray of Fipronil 5 SC @800 ml/ha (Ist spray at Panicle initiation stage and IInd at Flowering stage) were recorded highest yield (55.92 q/ha) and cost benefit ratio (2.00) followed by plots treated by Nitrogen @100kg/ha and application of Cartap 4G @25 kg/ha (Ist application at Panicle initiation stage and IInd at Flowering stage), the yield recorded as 55.49 q/ha and cost benefit ratio (1.99). Whereas the plots treated by farmer practices recorded lowest yield (53.52 q/ha) and cost benefit ratio (1.97). The observation on infestation of leaf folder was recorded lowest (1.3%) in treated plots with Fipronil followed by Cartap (1.9%) and farmer practices (7.2%).

Therefore it can be concluded that the insecticide Fipronil 5 SC @800 ml/ha and Cartap 4G @25 kg/ha with application of Nitrogen @100kg/ha can be recommended to manage leaf folder insect pests in paddy..

**OFT-2 Entomology**

|    |                                                            |                                                                                                                                                                                                                           |
|----|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Management of charcoal rot in chickpea                                                                                                                                                                                    |
| 2. | Problem diagnose                                           | The above ground symptoms include yellowing and stunting of plants and premature ripening of pods. The roots are black (charcoal), discoloration of roots and lack of feeder roots.                                       |
| 3. | Details of technologies selected for assessment/refinement | Technical Option 01 : Farmer practices (without seed treatment)<br>Technical Option 02 : Seed treatment with Azoxystrobin (23%) @1 ml/kg seed<br>Technical Option 03: Seed treatment with Carbendazim (50 WP)@ 2g/kg seed |
| 4. | Source of Technology                                       | Bihar Agricultural University, Sabour, Bhagalpur                                                                                                                                                                          |
| 5. | Production system and thematic area                        | Rice-Chickpea<br>Integrated Disease Management                                                                                                                                                                            |
| 6. | Performance of the Technology with performance indicators  | The incidence of disease is reduce and increase yield marginally.                                                                                                                                                         |
| 7. | Final recommendation for micro level situation             | The seed treatment of chickpea with Azoxystrobin @1 ml/kg seed / Carbendazim@ 2g/kg seed is recommended to reduce charcoal rot in chickpea.                                                                               |
| 8. | Constraints identified and feedback for research           | Assessment of other molecules                                                                                                                                                                                             |
| 9. | Process of farmers participation and their reaction        | Actively participated with adaptation of the technology                                                                                                                                                                   |

Table: No. of replication: 06

| Technology option                                    | Incidence (%) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|------------------------------------------------------|---------------|--------------|------------------------------|----------------------|---------------------|----------|
| Farmer practices (without seed treatment)            | 1.67          | 15.56        | 22,500                       | 54,460               | 31,960              | 2.42     |
| Seed treatment with Azoxystrobin (23%) @1 ml/kg seed | 0.94          | 15.88        | 23,000                       | 55,580               | 32,580              | 2.42     |
| Seed treatment with Carbendazim (50 WP)@             | 1.11          | 15.77        | 22,700                       | 55,195               | 32,495              | 2.43     |

|            |  |  |  |  |  |  |
|------------|--|--|--|--|--|--|
| 2g/kg seed |  |  |  |  |  |  |
|------------|--|--|--|--|--|--|

### Results: -

Results revealed that the higher yield of chickpea (15.88 q/ha) and 2.42 BC ratio with 0.94 per cent incidence of charcoal rot were recorded in plots of seed treated with Azoxystrobin followed by plots of seed treated with Carbendazim, the yield (15.77 q/ha) and 2.43 BC ratio with 1.11 per cent incidence of charcoal rot observed. Whereas plots without seed treatment the yield (15.56 q/ha) and 2.42 BC ratio with 1.67 per cent incidence of charcoal rot were recorded.

Therefore it can be concluded that the seed treated plots produce marginally higher yield and reduce disease incidence. The seed treatment of chickpea with Azoxystrobin @1 ml/kg seed / Carbendazim@ 2g/kg seed is recommended to reduce charcoal rot in chickpea.

### OFT-3 Entomology

|    |                                                            |                                                                                                                                                                                                                                                                      |
|----|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | <b>Management of pink stem (<i>Sesamia inferens</i>) borer in wheat</b>                                                                                                                                                                                              |
| 2. | Problem diagnose                                           | Larvae bore into central shoot resulting in the drying up of the growing point and formation of “dead heart” in young plant as a result of larval feeding sometimes the bottom internodes show circular ring like cuts. At ear head stage “white ears” are produced. |
| 3. | Details of technologies selected for assessment/refinement | Technical Option 01 : Farmer practices (Thimet @ 5kg/acre)<br>Technical Option 02 : Thiodicarb @625 g/acre<br>Technical Option 03: Quinolphos @ 500 g/acre                                                                                                           |
| 4. | Source of Technology                                       | Directorate of Wheat Research, Karnal                                                                                                                                                                                                                                |
| 5. | Production system and thematic area                        | Rice-Wheat<br>Integrated Pest Management                                                                                                                                                                                                                             |
| 6. | Performance of the Technology with performance indicators  | The infestation of insect is reduced and increase yield marginally.                                                                                                                                                                                                  |
| 7. | Final recommendation for micro level situation             | It can be recommended that the Thiodicarb and Quinolphos manage the infestation of pink stem borer in wheat.                                                                                                                                                         |
| 8. | Constraints identified and feedback for research           | Assessment of other molecules                                                                                                                                                                                                                                        |
| 9. | Process of farmers participation and their reaction        | Actively participated with adaptation of the technology                                                                                                                                                                                                              |

| Technology option                    | No. of trials | Infestation (%) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|--------------------------------------|---------------|-----------------|--------------|------------------------------|----------------------|---------------------|----------|
| Farmer practices (Thimet @ 5kg/acre) | 8             | 2.09            | 39.29        | 29,000.00                    | 63,846.00            | 34,846.00           | 2.20     |
| Thiodicarb @625 g/acre               | 8             | 0.71            | 40.30        | 29,500.00                    | 65,488.00            | 35,988.00           | 2.22     |
| Quinolphos @ 500 g/acre              | 8             | 1.10            | 40.06        | 29,500.00                    | 65,098.00            | 35,598.00           | 2.21     |

#### Results: -

Results revealed that the lowest infestation (0.71%) of pink stem borer was observed marginally higher yield (40.30 q/ha) and cost benefit ratio 2.22 in Thiodicarb treated plots followed by Quinolphos treated plots infestation was recorded 1.10 per cent with grain yield of 40.06 q/ha and BC ratio is 2.21. Whereas farmer practice treated plots 2.09 per cent infestation of stem borer was observed with yield of 39.29 q/ha and cost benefit ratio is 2.20.

Therefore it can be recommended that the Thiodcarb and Qunolphos manage the infestation of pink stem borer in wheat.

#### OFT-4 Entomology: Crop standing

|    |                                                            |                                                                                                                                                                                |
|----|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Management of red spider mite, ( <i>Tetranychus urticae</i> ) in Okra (bhindi)                                                                                                 |
| 2. | Problem diagnose                                           | Nymphs and adults suck the cell sap from underside of the leaves resulting yellow white spots. Leaves gradually curl, get wrinkled and crump.                                  |
| 3. | Details of technologies selected for assessment/refinement | Technical Option 01 : Farmer practices ( gm a.i. /ha)<br>Technical Option 02 : Propergite 18.5 EC@500 gm a.i./ha<br>Technical Option 03: Spiromesifen 22.9 SC @ 120 gm a.i./ha |
| 4. | Source of Technology                                       | Indian Institute of Vegetable Research, Varanasi                                                                                                                               |
| 5. | Production system and thematic area                        | Rice-Wheat<br>Integrated Pest Management                                                                                                                                       |
| 6. | Performance of the Technology with performance indicators  | Infestation (%),Yield (q/ha), BC ratio                                                                                                                                         |
| 7. | Final recommendation for micro level situation             |                                                                                                                                                                                |
| 8. | Constraints identified and feedback for research           |                                                                                                                                                                                |
| 9. | Process of farmers participation and their reaction        |                                                                                                                                                                                |

Table:



| Technology option                     | No. of trials | Infestation (%) | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---------------------------------------|---------------|-----------------|--------------|------------------------------|----------------------|---------------------|----------|
| Farmer practices (500ml a.i. /ha)     | 7             |                 |              |                              |                      |                     |          |
| Propergite 18.5 EC@500 gm a.i./ha     | 7             |                 |              |                              |                      |                     |          |
| Spiromesifen 22.9 SC @ 120 gm a.i./ha | 7             |                 |              |                              |                      |                     |          |

### Results: - Crop standing

#### OFT-1 Animal Science

|    |                                                            |                                                                                              |
|----|------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Assessment of different composition of Pashu Chocolates on dairy cattle for milk production. |
| 2. | Problem diagnose                                           | Infertility&low milk production                                                              |
| 3. | Details of technologies selected for assessment/refinement | For improve Fertility and milk production.                                                   |
| 4. | Source of Technology                                       | IVRI, Izatnagar , Bareilly.                                                                  |
| 5. | Production system and thematic area                        | Feeding & Diseases management                                                                |
| 6. | Performance of the Technology with performance indicators  | Heat period ,Conception rate , Milk production and Fat Percentage                            |
| 7. | Final recommendation for micro level situation             | Health and Reproductive Failure due to Nutritional problems of cattle.                       |
| 8. | Constraints identified and feedback for research           | Cystic and smooth ovary                                                                      |
| 9. | Process of farmers participation and their reaction        | Treatment process is used in farmer's house & Best reaction afternormal cost of treatment.   |

**Table: No. of replication: 5**

| Technology option                                                                                                                                                                                                                | Yield component after treatment |        |                |        |                          | Gross Cost of feed/medicine /labour (Rs.) | Gross return (Rs @30/lit /cow) ) | Net return (Rs.) | B C ratio |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|----------------|--------|--------------------------|-------------------------------------------|----------------------------------|------------------|-----------|
|                                                                                                                                                                                                                                  | Pre treatment                   |        | Post treatment |        | No. of Concei ved cattle |                                           |                                  |                  |           |
|                                                                                                                                                                                                                                  | Milk (Lit)                      | Fat(%) | Avg Milk (Lit) | Fat(%) |                          |                                           |                                  |                  |           |
| TO1. Wheat straw (5kg)+Maize(0.5-1kg)+ Mustard Cake0.5Kg) + seasonal fodder grasses ( Oat /Berseem/ Sudan / others )+Paddy straw (6kg) + Salt (Yes/No).<br>(Farmers Practice)                                                    | 7.70                            | 3.48   | 7.78           | 3.7    | +2                       | 8414                                      | 7002                             | 498              | 0.93      |
| TO2.Wheat straw (5.4kg)+Maize(1.6kg)+ G.N Cake (0.55kg)+Gram Chuni (1.66kg)+Oat fodder (3.3kg) flowering stage + Cow pea (2kg)+Salt & Mineral mixture 1% of the concentration (orally)                                           | 11.1                            | 3.6    | 11.56          | 4.48   | +4                       | 8414                                      | 10404                            | 1990             | 1.2       |
| TO3. Wheat straw (6.33kg)+Maize(0.55kg)+ Cotton seed Cake (0.84kg)+Gram Chuni (1.11kg)+ Rice Bran (1.66kg)+ Sorghum fodder(3.3 kg) flowering stage + maize fodder (3kg)+Salt & Mineral mixture 1% of the concentration. (orally) | 10.78                           | 3.78   | 11.38          | 4.72   | +4                       | 8550                                      | 10242                            | 1692             | 1.19      |
| TO4. Wheat straw(6.33kg)+Maize(0.55kg)+ Mustard Cake (0.84 kg)+Gram Chuni (1.11kg)+ + Oat (3.3kg) flowering stage + Berseem (3kg)+Salt & Mineral mixture 1% of the concentration (orally.)                                       | 10                              | 3.44   | 10.64          | 4.06   | +3                       | 8400                                      | 9576                             | 1176             | 1.14      |

**Results:** TO3 feeding cum pashu chocolate feeding is better than that of others groups for the milk production, Fat % & conception rate

**OFT-2: Animal Science**

|    |                                                            |                                                                                                        |
|----|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Effect of antibiotic, Probiotic& Immunomodulator on growth performance in broiler chicks.              |
| 2. | Problem diagnose                                           | Poor growth performance and low body wt gain                                                           |
| 3. | Details of technologies selected for assessment/refinement | To increase the growth performance and productivity of meats                                           |
| 4. | Source of Technology                                       | R.V.C Kanke, Ranchi.                                                                                   |
| 5. | Production system and thematic area                        | Feeding & Diseases management.                                                                         |
| 6. | Performance of the Technology with performance indicators  | For Body wt gain / chicken production system                                                           |
| 7. | Final recommendation for micro level situation             | Supplementation of Probiotic, Immunomodulator, antibiotic& mineral mixture will increase body wt. gain |
| 8. | Constraints identified and feedback for research           | Due to Bacterial, Viral and fungal diseases in poultry.                                                |
| 9. | Process of farmers participation and their reaction        | Treatment process is used in farmer's house & Best reaction after normal cost of treatment.            |

**Table: No. of replication: 50**

| Technology option                                                                               | Yield component after treatment |                                 |                                 | Avg. Wt gain (kg) | Gross Cost of chicks/feed/medicine (Rs. ) | Gross return (Rs@80/kg ) | Net return (Rs.) | B C ratio |
|-------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------|-------------------------------------------|--------------------------|------------------|-----------|
|                                                                                                 | 1 <sup>st</sup> wk Body wt.(gm) | 2 <sup>nd</sup> wk Body wt.(kg) | 4 <sup>th</sup> wk Body wt.(Kg) |                   |                                           |                          |                  |           |
| 1. Common Feeding.<br>(Farmers Practice)                                                        | 78.29                           | 0.467                           | 1.134                           | 1.134             | 3875                                      | 4536                     | 661              | 1.17      |
| 2. TO I+Immunomodulation ( E-Sel power) ( 5 ml /50 birds ,orally for 4th wks).                  | 82.653                          | 0.533                           | 1.446                           | 1.446             | 4271                                      | 5840                     | 1569             | 1.36      |
| 3. TO I +Probiotic ( Microguard : 1gm/50 birds, orally for 4 <sup>th</sup> wks)                 | 81.142                          | 0.462                           | 1.376                           | 1.376             | 5331                                      | 5504                     | 173              | 1.03      |
| 4. TO I +Antibiotic.<br>( Meriflox: 1ml/2lit of drinking water for 4 <sup>th</sup> wks ,Orally) | 82.57                           | 0.478                           | 1.336                           | 1.336             | 4163                                      | 5344                     | 1181             | 1.28      |

**Results:** TO2 feedindg concentrate - cum –immunomodulator is better than that of others groups for the increase body weight gain in broiler poultry farming.

## OFT-1. Agril. Engg.

|    |                                                            |                                                                                                                                                                                                                                                                                      |
|----|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Assessment of Perforated plastic pipe as irrigation indicator for dry and wet method of irrigation in paddy, IInd year                                                                                                                                                               |
| 2. | Problem diagnosed                                          | Excess water requirement due to continuous ponding in paddy cultivation                                                                                                                                                                                                              |
| 3. | Details of technologies selected for assessment/refinement | TO-1: Continuous water ponding (Farmer's practice)<br>TO-2: Applying irrigation by alternate wet and dry method (when water level is 5 cm below soil surface)<br>TO-3: Applying irrigation by using perforated plastic pipe indicator (when water level is 15 cm below soil surface) |
| 4. | Source of Technology                                       | DRR, Hyderabad                                                                                                                                                                                                                                                                       |
| 5. | Production system and thematic area                        | Rice-Wheat, Thematic Area- Water conservation.                                                                                                                                                                                                                                       |
| 6. | Performance of the Technology with performance indicators  | Water level in perforated plastic pipe, No. of irrigations, Irrigation interval, Water saving, Yield                                                                                                                                                                                 |
| 7. | Final recommendation for micro level situation             | TO-3 (Irrigation when water level in the field is 15 cm below soil surface) is recommended. It saved 1500 cubic water and gave increased yield by 1.4 quintal/ha and B: C ratio 1.99 in comparison to TO-1 farmers practice                                                          |
| 8. | Constraints identified and feedback for research           | -                                                                                                                                                                                                                                                                                    |
| 9. | Process of farmers participation and their reaction        | Active Participation by farmers                                                                                                                                                                                                                                                      |

Table: No. of replication: 6

| Technology option                                                                                             | No. of trials | Performance Parameters         |                   |                                     |                                          | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---------------------------------------------------------------------------------------------------------------|---------------|--------------------------------|-------------------|-------------------------------------|------------------------------------------|--------------|------------------------------|----------------------|---------------------|----------|
|                                                                                                               |               | Water level in perforated pipe | No. of Irrigation | Irrigation Requirement(Cubic meter) | Irrigation Water saving (cubic meter/ha) |              |                              |                      |                     |          |
| Continuous water ponding (Farmer's practice)                                                                  | 6             | -                              | 6                 | 3000                                | -                                        | 46.2         | 38000                        | 67914                | 29914               | 1.79     |
| Applying irrigation by alternate wet and dry method (when water level is 5 cm below soil surface)             | 6             | 5 cm below soil surface        | 4                 | 2000                                | 1000                                     | 47.6         | 36990                        | 69972                | 32982               | 1.89     |
| Applying irrigation by using perforated plastic pipe indicator (when water level is 15 cm below soil surface) | 6             | 15 cm below soil surface       | 3                 | 1500                                | 1500                                     | 47.6         | 35040                        | 69972                | 34932               | 1.99     |

Results: TO-3 (Irrigation when water level in the field is 15 cm below soil surface) has been found most beneficial which saved 1500 cubic water and increased yield by 1.4 quintal/ha and B: C ratio 1.99 in comparison to TO-1 farmers practice

## OFT 2. Agril. Engg.

|    |                                                            |                                                                                                                                           |
|----|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Assessment of Cut Back ratio in Wheat Irrigation                                                                                          |
| 2. | Problem diagnosed                                          | Loss of water due to ponding in wheat irrigation                                                                                          |
| 3. | Details of technologies selected for assessment/refinement | TO 1: Irrigation at more than 100 % Cut Back (Farmers Practice)<br>TO 2: Irrigation at 85 % cut Back<br>TO 3: Irrigation at 90 % cut Back |
| 4. | Source of Technology                                       | DRPCA, Pusa                                                                                                                               |
| 5. | Production system and thematic area                        | Rice-Wheat<br>Thematic Area- Water conservation.                                                                                          |
| 6. | Performance of the Technology with performance indicators  | No. of irrigation, water saving, yield, B:C ratio                                                                                         |
| 7. | Final recommendation for micro level situation             | TO3 (Irrigation at 90 % cut back) saved Rs. 1426 as irrigation cost, 481.6 cubic meter/ha of irrigation water with B:C ratio of 2.09      |
| 8. | Constraints identified and feedback for research           | -                                                                                                                                         |
| 9. | Process of farmers participation and their reaction        | Active Participation by farmers                                                                                                           |

Table: No. of replication: 08

| Technology option                                               | Performance Parameters |                                |                               | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|-----------------------------------------------------------------|------------------------|--------------------------------|-------------------------------|--------------|------------------------------|----------------------|---------------------|----------|
|                                                                 | No. of Irrigation      | water applied (cubic meter/ha) | Water saving (cubic meter/ha) |              |                              |                      |                     |          |
| TO 1: Irrigation at more than 100 % cut back (Farmers Practice) | 3                      | 2100                           | -                             | 39.4         | 32500                        | 64025                | 31525               | 1.97     |
| TO 2: Irrigation at 85 % cut back                               | 3                      | 1531                           | 569(27.10 %)                  | 39.0         | 30815                        | 63375                | 32560               | 1.99     |
| TO 3: Irrigation at 90 % cut back                               | 3                      | 1618.4                         | 481.6(22.93 %)                | 40.0         | 31074                        | 65000                | 33926               | 2.09     |

Results: Result revealed that TO 3 (Irrigation at 90 % cut back) has been the best technological options with a saving of Rs. 1426 as irrigation cost, 481.6 cubic meter/ha of irrigation water with B:C ratio of 2.09 as compared to 1.97 in farmers practice.

## OFT-1.Home Science

|    |                                                            |                                                                                                                                           |
|----|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Assessment of different type of manures in nutritional gardening                                                                          |
| 2. | Problem diagnosed                                          | Low productivity                                                                                                                          |
| 3. | Details of technologies selected for assessment/refinement | TO 1: Use of farm yard manure (Farmers Practice)<br>TO 2: Use of vermicompost<br>TO 3: Use of poultry manure                              |
| 4. | Source of Technology                                       |                                                                                                                                           |
| 5. | Production system and thematic area                        | Rice-wheat<br>Nutrition Gardening/ Kitchen Gardening                                                                                      |
| 6. | Performance of the Technology with performance indicators  | Yield, BC ratio, quality in vegetable production                                                                                          |
| 7. | Final recommendation for micro level situation             | Use of poultry manure and vermicompost in vegetable production is more beneficial than simply FYM in terms of yield, BC ratio and quality |
| 8. | Constraints identified and feedback for research           | -                                                                                                                                         |
| 9. | Process of farmers participation and their reaction        | Active participation of farm women                                                                                                        |

Table: No. of replication:07

| Technology option                          | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|--------------------------------------------|--------------|------------------------------|----------------------|---------------------|----------|
| Use of left over manure (Farmers Practice) | 85           | 52000                        | 127500               | 75500               | 2.45     |
| Use of vermicompost                        | 112          | 80000                        | 168000               | 88000               | 2.1      |
| Use of poultry manure                      | 120          | 52000                        | 180000               | 128000              | 3.46     |

### Results:

Application of poultry manure in vegetable production like spinach production is comparatively more beneficial due to higher BC ratio and qualitatively the produce are at par with the produce obtained by the application of vermicompost in the kitchen garden and both TO2 & TO3 are more advantageous for physical structure of the soil as well as for increasing the water holding capacity of soil as compared to TO1 i.e application of FYM in kitchen garden

## OFT-2. Home Science

|    |                                                            |                                                                                                                           |
|----|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1. | Title of On farm Trial                                     | Value addition in Minor Millet (Ragi) through nutrition intervention for children.                                        |
| 2. | Problem diagnosed                                          | Poor health status of children                                                                                            |
| 3. | Details of technologies selected for assessment/refinement | TO 1: Only milk (Without any supplementary additive)<br>TO 2: 100 % Malted Ragi flour<br>TO 3: Wheat- Ragi mix malt (1:1) |
| 4. | Source of Technology                                       | RAU, Pusa                                                                                                                 |
| 5. | Production system and thematic area                        | Rice- wheat<br>Nutrition security                                                                                         |
| 6. | Performance of the Technology with performance indicators  | Body weight, height, arm circumference                                                                                    |
| 7. | Final recommendation for micro level situation             | Bring her from next page                                                                                                  |
| 8. | Constraints identified and feedback for research           | -                                                                                                                         |
| 9. | Process of farmers participation and their reaction        | Active participation of mothers                                                                                           |

Table: Replication: No. of replication: 30 (10 children of 1 year +/- 2 months in each group)

| Technology option                                    | Body weight (kg) |      | Increase in wt. | Height (Ft.) |      | Increase in height | Arm circumference (cm) |      | Increase in arm circumference |
|------------------------------------------------------|------------------|------|-----------------|--------------|------|--------------------|------------------------|------|-------------------------------|
|                                                      | Pre              | Post |                 | Pre          | Post |                    | Pre                    | Post |                               |
| TO 1: Only milk (Without any supplementary additive) | 6                | 7.1  | 1.1             | 1.8          | 2.0  | 0.2                | 9.5                    | 10.0 | 0.5                           |
| TO 2: 100 % Malted Ragi flour                        | 5.5              | 8.0  | 2.5             | 1.7          | 2.7  | 1.0                | 9.4                    | 12.6 | 3.2                           |
| TO 3: Wheat- Ragi mix malt (1:1)                     | 5.8              | 7.5  | 1.7             | 1.9          | 2.2  | 0.3                | 10.0                   | 11.5 | 1.5                           |

### Results:

Use of malted ragi flour (TO2) for overall growth of the child has been observed most beneficial in terms of increase in body wt., height & arm circumference followed by use of wheat- ragi mix (TO3) and TO1 respectively



### 3.2 Achievements of Frontline Demonstrations

#### A. Details of FLDs conducted during 2016-17

##### Cereals

| Sl. No. | Crop                         | Thematic area             | Technology Demonstrated with detailed treatments                            | Area (ha) |        | No. of farmers/ demonstration |        |       | Reasons for shortfall in achievement |
|---------|------------------------------|---------------------------|-----------------------------------------------------------------------------|-----------|--------|-------------------------------|--------|-------|--------------------------------------|
|         |                              |                           |                                                                             | Proposed  | Actual | SC/ST                         | Others | Total |                                      |
| 1.      | <b>Shorgum</b>               | <b>Fodder production</b>  | Red Cheri                                                                   | -         | -      | 0                             | 12     | 12    |                                      |
| 2.      | Poultry                      | <b>Poultry management</b> | Vanraja& Grampriya Poultry farming for dual purpose (meat & Egg production) | -         | -      | 33                            | 25     | 58    |                                      |
| 3.      | Veg Cow Pea (Kashi Kanchan)  | HYV                       | Kashi kanchan                                                               | 1.5       | 0.88   | 9                             | 37     | 46    |                                      |
| 4.      | Paddy (ZT machine)           | RCT                       | Direct sowing of paddy by ZT machine, var. R. Sweta                         | 10        | 10     | 3                             | 12     | 15    |                                      |
| 5.      | Paddy                        | IPM                       | Phenomone Trap                                                              | 5         | 10.0   | 4                             | 21     | 25    |                                      |
| 6.      | Paddy                        | IPM                       | Thiyamethoxam                                                               | 5         | 11.25  | 3                             | 27     | 30    |                                      |
| 7.      | Mushroom (Oyster)            | Mushroom Production       | Oyster Mushroom                                                             | -         | -      | 5                             | 24     | 29    |                                      |
| 8.      | Mineral mixture & deworming  | Nutrient management       | Sudhamin, Fenbendazole                                                      | -         | -      | 5                             | 47     | 52    | Through COMFED                       |
| 9.      | Wheat (Sowing by ZT machine) | RCT                       | Wheat sowing by ZTSFD, var. HD 2985                                         | 5.0       | 6.0    | 1                             | 12     | 13    |                                      |
| 10.     | Wheat                        | Yield Increment           | HD 2985                                                                     | 5         | 5.44   | 2                             | 32     | 34    |                                      |
| 11.     | Jai & Berseem                | <b>Fodder production</b>  | Kent & Vardan                                                               | -         | -      | 0                             | 42     | 42    | NIFTD                                |
| 12.     | Lentil                       | CFLD on pulse crop        | HUL57+Rhizobium+Chlorpyriphos+ Carbendazim                                  | 20        | 20.0   | 8                             | 42     | 50    | CFLD                                 |
| 13.     | Chickpea                     | CFLD on pulse crop        | JAKI9218+Rhizobium+Chlorpyriphos+ Carbendazim                               | 20        | 17.5   | 8                             | 42     | 50    | CFLD                                 |
| 14.     | Filedpea                     | CFLD on pulse crop        | HUDP15+ Rhizobium+Chlorpyriphos+ Carbendazim                                | 20        | 20.0   | 8                             | 42     | 50    | CFLD                                 |
| 15.     | Mustard                      | CFLD on oilseed crop      | Rajendra Sufalam +Thiomethoxam(for Aphid)                                   | 30        | 30.0   | 13                            | 62     | 75    | CFLD                                 |

## Details of farming situation

| Crop  | Season | Farming situation<br>(RF/Irrigated) | Soil type         | Status of soil<br>(Kg/ha) |                               |                  | Previous crop | Sowing date | Harvest date | Seasonal rainfall<br>(mm) | No. of rainy days |
|-------|--------|-------------------------------------|-------------------|---------------------------|-------------------------------|------------------|---------------|-------------|--------------|---------------------------|-------------------|
|       |        |                                     |                   | N                         | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O |               |             |              |                           |                   |
| Paddy | Kharif | Irrigated                           | Old Alluvial Clay |                           |                               |                  | Wheat         |             |              |                           |                   |

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

## Performance of FLD

## Oilseeds:

## Frontline demonstrations on oilseed crops

| Crop  | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area (ha) | Yield (q/ha) |       | % Increase | *Economics of demonstration<br>(Rs./ha) |              |            |        | *Economics of check<br>(Rs./ha) |              |            |        |
|-------|---------------|-------------------------------------|----------------|-----------|--------------|-------|------------|-----------------------------------------|--------------|------------|--------|---------------------------------|--------------|------------|--------|
|       |               |                                     |                |           | Demo         | Check |            | Gross Cost                              | Gross Return | Net Return | ** BCR | Gross Cost                      | Gross Return | Net Return | ** BCR |
| Total |               |                                     |                |           |              |       |            |                                         |              |            |        |                                 |              |            |        |

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

\*\* BCR= GROSS RETURN/GROSS COST

## Pulses

## Frontline demonstration on pulse crops

| Crop | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area (ha) | Yield (q/ha) |       | % Increase | *Economics of demonstration<br>(Rs./ha) |              |            |        | *Economics of check<br>(Rs./ha) |              |            |        |
|------|---------------|-------------------------------------|----------------|-----------|--------------|-------|------------|-----------------------------------------|--------------|------------|--------|---------------------------------|--------------|------------|--------|
|      |               |                                     |                |           | Demo         | Check |            | Gross Cost                              | Gross Return | Net Return | ** BCR | Gross Cost                      | Gross Return | Net Return | ** BCR |
|      | Total         |                                     |                |           |              |       |            |                                         |              |            |        |                                 |              |            |        |

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

\*\* BCR= GROSS RETURN/GROSS COST

## Other crops

| Crop   | Thematic area   | Name of the technology demonstrated | No. of Farmer | Area (ha) | Yield (q/ha)  |       | % change in yield | Other parameters |       | *Economics of demonstration (Rs./ha) |              |            |        | *Economics of check (Rs./ha) |              |            |        |
|--------|-----------------|-------------------------------------|---------------|-----------|---------------|-------|-------------------|------------------|-------|--------------------------------------|--------------|------------|--------|------------------------------|--------------|------------|--------|
|        |                 |                                     |               |           | Demonstration | Check |                   | Demo             | Check | Gross Cost                           | Gross Return | Net Return | ** BCR | Gross Cost                   | Gross Return | Net Return | ** BCR |
| Paddy  | IPM             | Phenomone Trap                      | 25            | 10        | 56.1          | 54.2  | 3.5               | -                | -     | 40,500                               | 82,467       | 41,967     | 2.04   | 40,000                       | 79,674       | 39,674     | 1.99   |
| Cowpea | HYV             | Kashi kanchan                       | 46            | 0.88      | 98.5          | 78.3  | 25.8              | -                | -     | 27,000                               | 2,16,700     | 1,89,700   | 8.03   | 26,500                       | 1,40,940     | 1,14,440   | 5.32   |
| Paddy  | IPM             | Thiyamethoxam                       | 30            | 11.25     | 55.8          | 54.0  | 3.3               |                  |       | 41,000                               | 82,026       | 41,026     | 2.00   | 40,000                       | 79,380       | 39,380     | 1.98   |
| Wheat  | Yield Increment | HD 2985                             | 34            | 5.44      | 39.8          | 37.5  | 6.14              | -                | -     | 30400                                | 64675        | 34275      | 1:2.12 | 30400                        | 60937.5      | 30537.5    | 1:2.00 |
| Total  |                 |                                     | 135           | 27.57     |               |       |                   |                  |       |                                      |              |            |        |                              |              |            |        |

## Livestock

| Category       | Thematic area             | Name of the technology demonstrated                                         | No. of Farmer | No. of units | Major parameters                                      |                                                       | % change in major parameter | Other parameter                                    |                                                  | *Economics of demonstration (Rs.) |              |            |        | *Economics of check (Rs.) |              |            |        |
|----------------|---------------------------|-----------------------------------------------------------------------------|---------------|--------------|-------------------------------------------------------|-------------------------------------------------------|-----------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------|--------------|------------|--------|---------------------------|--------------|------------|--------|
|                |                           |                                                                             |               |              | Demonstration                                         | Check                                                 |                             | Demonstration                                      | Check                                            | Gross Cost                        | Gross Return | Net Return | ** BCR | Gross Cost                | Gross Return | Net Return | ** BCR |
| Dairy          | Fodder management         | a. Sorghum (Red Cheri) fodder grass production for milk production          | 14            | 30           | 11.32                                                 | 9.76                                                  | 1.56                        | 563                                                | 502                                              | 17100                             | 56300        | 39200      | 3.2    | 18300                     | 50200        | 31900      | 2.7    |
|                | Fodder management (NIFTD) | Jai                                                                         | 42            | 42           | 11.20                                                 | 9.62                                                  | 1.58                        | 540                                                | 452                                              | 53900                             | 84000        | 30100      | 1.5    | 48500                     | 72150        | 23650      | 1.4    |
|                |                           | Berseem                                                                     | 7             | 7            | 10.80                                                 | 9.2                                                   | 1.6                         | 580                                                | 460                                              | 53900                             | 81000        | 27100      | 1.5    | 48500                     | 69000        | 20500      | 1.4    |
|                |                           | b . H. Napier                                                               | 25            | 430          | 9.4                                                   | 8.9                                                   | 0.5                         | 345                                                | New introduced                                   | 50300                             | 70500        | 20200      | 1.4    | 48500                     | 66750        | 18250      | 1.3    |
| Cow            |                           |                                                                             |               |              |                                                       |                                                       |                             |                                                    |                                                  |                                   |              |            |        |                           |              |            |        |
| Buffalo        |                           |                                                                             |               |              |                                                       |                                                       |                             |                                                    |                                                  |                                   |              |            |        |                           |              |            |        |
| Poultry        | Poultry management        | Vanraja& Grampriya Poultry farming for dual purpose (meat & Egg production) | 68            | 750          | 3.5 Kg/bird (growth at 8 <sup>th</sup> months of age) | 2.5 Kg/bird (growth at 8 <sup>th</sup> months of age) | 1.0 kg& 28.5%               | 29,220 (Egg production 8 <sup>th</sup> months age) | 2700 (Egg production 8 <sup>th</sup> months age) | 113160                            | 428560       | 315400     | 3.78   | 14800                     | 48600        | 33800      | 3.2    |
| Rabbitry       |                           |                                                                             |               |              |                                                       |                                                       |                             |                                                    |                                                  |                                   |              |            |        |                           |              |            |        |
| Piggery        |                           |                                                                             |               |              |                                                       |                                                       |                             |                                                    |                                                  |                                   |              |            |        |                           |              |            |        |
| Sheep and goat |                           |                                                                             |               |              |                                                       |                                                       |                             |                                                    |                                                  |                                   |              |            |        |                           |              |            |        |
| Duckery        |                           |                                                                             |               |              |                                                       |                                                       |                             |                                                    |                                                  |                                   |              |            |        |                           |              |            |        |
| Total          |                           |                                                                             | 156           | 1259         |                                                       |                                                       |                             |                                                    |                                                  |                                   |              |            |        |                           |              |            |        |

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

\*\* BCR= GROSS RETURN/GROSS COST

## Fisheries

| Category     | Thematic area | Name of the technology demonstrated | No. of Farmer | No. of units | Major parameters |       | % change in major parameter | Other parameter |       | *Economics of demonstration (Rs.) |              |            |        | *Economics of check (Rs.) |              |            |        |
|--------------|---------------|-------------------------------------|---------------|--------------|------------------|-------|-----------------------------|-----------------|-------|-----------------------------------|--------------|------------|--------|---------------------------|--------------|------------|--------|
|              |               |                                     |               |              | Demonstration    | Check |                             | Demonstration   | Check | Gross Cost                        | Gross Return | Net Return | ** BCR | Gross Cost                | Gross Return | Net Return | ** BCR |
| Common carps |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |
| Total        |               |                                     |               |              |                  |       |                             |                 |       |                                   |              |            |        |                           |              |            |        |

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

\*\* BCR= GROSS RETURN/GROSS COST

## Other enterprises

| Category        | Name of the technology demonstrated | No. of Farmer | No. of units | Major parameters |       | % change in major parameter | Other parameter |       | *Economics of demonstration (Rs.) or Rs./unit |              |            |        | *Economics of check (Rs.) or Rs./unit |              |            |        |
|-----------------|-------------------------------------|---------------|--------------|------------------|-------|-----------------------------|-----------------|-------|-----------------------------------------------|--------------|------------|--------|---------------------------------------|--------------|------------|--------|
|                 |                                     |               |              | Demonstration    | Check |                             | Demonstration   | Check | Gross Cost                                    | Gross Return | Net Return | ** BCR | Gross Cost                            | Gross Return | Net Return | ** BCR |
| Oyster mushroom | Enterprise development              | 23            | 23           | 12 bag/kg sawn   |       |                             |                 |       | 226                                           | 400          | 174        | 1.8    | -                                     | -            | -          | -      |
| Button mushroom |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |
| Vermicompost    |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |
| Total           |                                     |               |              |                  |       |                             |                 |       |                                               |              |            |        |                                       |              |            |        |

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

\*\* BCR= GROSS RETURN/GROSS COST

## Women empowerment

| Category        | Name of technology | No. of demonstrations | Observations  |       | Remarks |
|-----------------|--------------------|-----------------------|---------------|-------|---------|
|                 |                    |                       | Demonstration | Check |         |
| Farm Women      |                    |                       |               |       |         |
| Pregnant women  |                    |                       |               |       |         |
| Adolescent Girl |                    |                       |               |       |         |
| Children        |                    |                       |               |       |         |
| Neonatal        |                    |                       |               |       |         |
| Infants         |                    |                       |               |       |         |



## Technical Feedback on the demonstrated technologies

| S. No | Crop             | Feed Back                                                                                                                                           |
|-------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Paddy            | Farmers got increased yield due to demonstrated technologies and are willing to spread the technology & they have demanded for quality seed in time |
| 2     | Wheat            |                                                                                                                                                     |
| 3     | Lentil           |                                                                                                                                                     |
| 4     | Chickpea         |                                                                                                                                                     |
| 5     | Field pea        |                                                                                                                                                     |
| 6     | Rapeseed/mustard |                                                                                                                                                     |

## Extension and Training activities under FLD

| SL. No. | Activity                             | Date       | No. of activities organized | Number of participants | Remarks                                                                                   |
|---------|--------------------------------------|------------|-----------------------------|------------------------|-------------------------------------------------------------------------------------------|
| 1.      | Field days                           | 03.10.2016 | 02                          | 37                     | Field day on DSR at Rampurcharui and Arhit                                                |
|         |                                      | 25.10.2016 | 01                          | 20                     | Field day on Pheromone trap in paddy at Safepur                                           |
|         |                                      | 16.8.2016  | 01                          | 14                     | Field day on DSR at Jaikishunbigha                                                        |
|         |                                      | 19.08.2016 | 01                          | 16                     | Field day on DSR at Kurua                                                                 |
|         |                                      | 03.03.2017 | 01                          | 13                     | Field day on wheat cultivation by zero tillage at Jaikishunbigha                          |
| 2.      | Farmers training                     | 16.8.2016  | 01                          | 14                     |                                                                                           |
| 3.      | Media coverage                       |            |                             |                        |                                                                                           |
| 4.      | Training for extension functionaries | 19.08.2016 | 01                          | 25                     | On campus training to agricultural coordinators of district agriculture department on DSR |

## Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2016 and Rabi 2016-17:

## Rabi Oilseed 2016-17:

## A. Technical Parameters:

| Sl. No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to |                 |                     | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) |      |      | Yield gap minimized (%) |   |   |
|---------|-------------------|----------------------------------|-----------------------|--------------------------|-----------------|---------------------|-------------------------------------------|-------------------|------------|-----------------------|------|------|-------------------------|---|---|
|         |                   |                                  |                       | District yield (D)       | State yield (S) | Potential yield (P) |                                           |                   |            | Max.                  | Min. | Av.  | D                       | S | P |
| 1.      | Mustard           | Rajendra Rai Pichheti            | 11.6                  | 1330                     | 1375            | 15                  | Rajendra Sufalam+Thiomethoxam(for Aphid)  | 75                | 30         | 16.8                  | 8.2  | 13.1 |                         |   |   |

**B. Economic parameters**

| Sl. No. | Variety demonstrated & Technology demonstrated | Farmer's Existing plot |                       |                    |           | Demonstration plot |                       |                    |           | Farmers, feedback                           |
|---------|------------------------------------------------|------------------------|-----------------------|--------------------|-----------|--------------------|-----------------------|--------------------|-----------|---------------------------------------------|
|         |                                                | Gross Cost (Rs/ha)     | Gross return (Rs/ha)  | Net Return (Rs/ha) | B:C ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha)  | Net Return (Rs/ha) | B:C Ratio |                                             |
| 1       | Rajendra Sufalam +Thiomethoxam(for Aphid)      | 16800                  | 42920<br>@Rs.3700/qt) | 26120              | 2.55      | 17300              | 48470<br>(@Rs3700/qt) | 31170              | 2.80      | Yield increased due to less attack of aphid |

**C. Socio-economic impact parameters**

| Sl. No. | Crop and variety Demonstrated                     | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/house hold) |
|---------|---------------------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------------------|-------------------------------------------|----------------------------------------------|-------------------------------------------|
| 1       | Mustard Rajendra Sufalam+ Thiomethoxam(for Aphid) | 13100                       | 484                         | 3700                 | 40                               | Not decided                               | To meet family needs                         | 12                                        |

**D. Oilseed Farmer's perception of the intervention demonstrated**

| Sl. No. | Technologies demonstrated (with name)     | Farmers' Perception parameters      |                      |               |                                                       |                                                      |                                             |
|---------|-------------------------------------------|-------------------------------------|----------------------|---------------|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------|
|         |                                           | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect                                   | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 1       | Rajendra Sufalam+ Thiomethoxam(for Aphid) | (Rice-Mustard) Yes                  | Liked by farmers     | Affordable    | Lack of irrigation facility and seed sowing machines. | Yes                                                  | Micro-irrigation facility needed.           |

**E. Extension activities under FLD conducted till dates (Rabi oilseed):**

| Sl. No. | Extension Activities organized | Date and place of activity             | Number of farmer attended |
|---------|--------------------------------|----------------------------------------|---------------------------|
| 1       | Field visit cum training       | 17.01.2017, Daharpur, Modanganj        | 15                        |
| 2       | Field day/Field visit          | 03.03.2017, Dhamapur, Modanganj        | 15                        |
| 3       | Field day/Field visit          | 07.03.2017, Shahpur, Ghosi             | 17                        |
| 4       | Field day/Field visit          | 10.03.2017, Jaikishun bigha, Modanganj | 15                        |
| 5       | Field day cum training         | 23.03.2017, Afzalpur, Kako             | 16                        |

**RABI PULSE SEED (2016-17)****A. Technical Parameters:**

| Sl. No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to |                 |                     | Name of Variety + Technology Demonstrated     | Number of farmers | Area in ha | Yield obtained (q/ha) |      |      | Yield gap minimized (%) |   |    |
|---------|-------------------|----------------------------------|-----------------------|--------------------------|-----------------|---------------------|-----------------------------------------------|-------------------|------------|-----------------------|------|------|-------------------------|---|----|
|         |                   |                                  |                       | District yield (D)       | State yield (S) | Potential yield (P) |                                               |                   |            | Max.                  | Min. | Av.  | D                       | S | P  |
| 1.      | Lentil            | PL639                            | 11.2                  | 1030                     | 1035            | 20                  | HUL57+Rhizobium+Chlorpyrifos + Carbendazim    | 50                | 20         | 17.5                  | 8.6  | 12.8 |                         |   | 25 |
| 2.      | Chickpea          | JG14                             | 12.4                  | 1135                     | 1217            | 20                  | JAKI9218+Rhizobium+Chlorpyrifos + Carbendazim | 50                | 20         | 20.0                  | 9.0  | 16.0 |                         |   | 20 |
| 3.      | Fieldpea          | Rachna                           | 13.0                  | 1100                     | 1200            | 25                  | HUDP15+ Rhizobium+Chlorpyrifos+ Carbendazim   | 50                | 20         | 22.0                  | 10.7 | 15.5 |                         |   | 25 |

**B. Economic parameters**

| Sl. No. | Variety demonstrated & Technology demonstrated                  | Farmer's Existing plot |                      |                    |           | Demonstration plot |                        |                    |           | Farmers, feedback                    |
|---------|-----------------------------------------------------------------|------------------------|----------------------|--------------------|-----------|--------------------|------------------------|--------------------|-----------|--------------------------------------|
|         |                                                                 | Gross Cost (Rs/ha)     | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha)   | Net Return (Rs/ha) | B:C Ratio |                                      |
| 1.      | <b>Lentil</b><br>HUL57+Rhizobium+Chlorpyrifos+ Carbendazim      | 17300                  | 44240                | 26940              | 2.55      | 18400              | 48190 (@ 3950 Rs./qt.) | 29790              | 2.62      | Farmers appreciated                  |
| 2.      | <b>Chickpea</b><br>JAKI9218+Rhizobium+Chlorpyrifos+ Carbendazim | 19700                  | 49600                | 29900              | 2.53      | 20900              | 64000 (@ 4000 Rs./qt)  | 43100              | 3.06      | the variety and                      |
| 3.      | <b>Fieldpea</b> HUDP15+ Rhizobium+Chlorpyrifos+ Carbendazim     | 19000                  | 45500                | 26500              | 2.39      | 20200              | 54250 (@ Rs.3500/qt)   | 34050              | 2.68      | wished to expand the area next year. |



**C. Socio-economic impact parameters**

| Sl. No. | Crop and variety Demonstrated                                                    | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/household) |
|---------|----------------------------------------------------------------------------------|-----------------------------|-----------------------------|----------------------|----------------------------------|-------------------------------------------|----------------------------------------------|------------------------------------------|
| 1.      | <b>Lentil</b><br>HUL57+Rhizobium+Chlorpyrifos+                                   | 25600                       | 462                         | 37                   | 50                               | Not decided                               | To meet family needs                         | 13                                       |
| 2.      | Carbendazim<br><b>Chickpea</b><br>JAKI9218+Rhizobium+Chlorpyrifos+               | 32000                       | 576                         | 40                   | 64                               | Not decided                               | To meet family needs                         | 13                                       |
| 3.      | Carbendazim<br><b>Fieldpea</b> HUDP15+<br>Rhizobium+Chlorpyrifos+<br>Carbendazim | 31000                       | 558                         | 35                   | 62                               | Not decided                               | To meet family needs                         | 13                                       |

**D. Pulse Farmer's perception of the intervention demonstrated**

| Sl. No. | Technologies demonstrated (with name)                                                                                | Farmers' Perception parameters      |                      |               |                                                             |                                                      |                                             |
|---------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|---------------|-------------------------------------------------------------|------------------------------------------------------|---------------------------------------------|
|         |                                                                                                                      | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect                                         | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 1.      | <b>Lentil</b><br>HUL57+Rhizobium+Chlorpyrifos+                                                                       | (Rice-lentil)<br>Yes                | Liked by farmers     | Affordable    | Lack of micro-irrigation facility and seed sowing machines. | Yes                                                  | Good varieties may be                       |
| 2.      | Carbendazim<br><b>Chickpea</b>                                                                                       | (Rice-Chickpea)                     | Liked by farmers     | Affordable    |                                                             |                                                      | introduced and micro                        |
| 3.      | JAKI9218+Rhizobium+Chlorpyrifos+<br>Carbendazim<br><b>Fieldpea</b> HUDP15+<br>Rhizobium+Chlorpyrifos+<br>Carbendazim | (Rice-fieldpea)<br>Yes              | Liked by farmers     | Affordable    |                                                             |                                                      | irrigation facility needed.                 |

**E. Extension activities under FLD conducted till dates:**

| Sl. No. | Extension Activities organized | Date and place of activity      | Number of farmer attended |
|---------|--------------------------------|---------------------------------|---------------------------|
| 1       | Field visit cum training       | 17.01.2017, Daharpur, Modanganj | 15                        |
| 2       | Field day/Field visit          | 03.03.2017, Dhamapur,           | 15                        |

|   |                        |                                              |    |
|---|------------------------|----------------------------------------------|----|
|   |                        | Modanganj                                    |    |
| 3 | Field day/Field visit  | 07.03.2017, Shahpur,<br>Ghosi                | 17 |
| 4 | Field day/Field visit  | 10.03.2017,<br>Jaikishun bigha,<br>Modanganj | 15 |
| 5 | Field day cum training | 23.03.2017, Afzalpur,<br>Kako                | 16 |

**F. Sequential good quality photographs (as per crop stages i.e. growth & development)**

**G. Farmers' training photographs**

**H. Quality Photographs of field visits/field days and technology demonstrated.**



**J. Details of budget utilization:**

| Crop<br>(provide<br>crop wise<br>information<br>) | Items                                    | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.) |
|---------------------------------------------------|------------------------------------------|-----------------------------|--------------------------------|------------------|
| Mustard                                           | i) Critical input                        | 81000                       | 80650                          | 350              |
|                                                   | ii) TA/DA/POL etc. for<br>monitoring     | 9000                        | 2605                           | 40               |
|                                                   | iii) Extension Activities<br>(Field day) |                             | 1255                           |                  |
|                                                   | iv) Publication of<br>literature         |                             | 5100                           |                  |
|                                                   | Total                                    | 90000.00                    | 89610                          | 390              |

| Crop<br>(provide crop<br>wise<br>information ) | Items                                    | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.) |
|------------------------------------------------|------------------------------------------|-----------------------------|--------------------------------|------------------|
| Lentil                                         | i) Critical input                        | 135000                      | 135000                         | NIL              |
|                                                | ii) TA/DA/POL etc. for<br>monitoring     | 15000                       | 12737                          | 138              |
|                                                | iii) Extension Activities (Field<br>day) |                             | 625                            |                  |
|                                                | iv)Publication of literature             |                             | 1500                           |                  |
|                                                | Total                                    | 150000                      | 149862                         | 138              |

| Crop<br>(provide crop<br>wise<br>information ) | Items                                    | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.) |
|------------------------------------------------|------------------------------------------|-----------------------------|--------------------------------|------------------|
|                                                |                                          | 150000+97600=247600         |                                |                  |
| Chickpea                                       | i) Critical input                        | 232600                      | 232550                         | 50               |
|                                                | ii) TA/DA/POL etc. for<br>monitoring     | 15000                       | 11187                          | 188              |
|                                                | iii) Extension Activities<br>(Field day) |                             | 625                            |                  |
|                                                | iv)Publication of literature             |                             | 3000                           |                  |
|                                                | Total                                    | 247600                      | 247362                         | 238              |

| Crop<br>(provide crop<br>wise<br>information ) | Items                                    | Budget<br>Received<br>(Rs.) | Budget<br>Utilization<br>(Rs.) | Balance<br>(Rs.) |
|------------------------------------------------|------------------------------------------|-----------------------------|--------------------------------|------------------|
|                                                |                                          | 150000.00                   |                                |                  |
| Fieldpea                                       | i) Critical input                        | 135000                      | 115950                         | 19050            |
|                                                | ii) TA/DA/POL etc. for<br>monitoring     | 15000                       | 6661                           | 64               |
|                                                | iii) Extension Activities (Field<br>day) |                             | 625                            |                  |
|                                                | iv)Publication of literature             |                             | 7650                           |                  |
|                                                | Total                                    | 150000.00                   | 130886                         | 19114            |

| Name of farmer | Father's name | Village | Block | Mobile No. | Email ID | GPS Coordinates (DDMMSS format) |  | Soil testing done (Yes/No) | Recommendations based on soil test value | Brief technology intervention  | Variety          | Seed quantity used | Demo. Yield (q/ha) |    |     | Yield of local check q/ha | % increase |
|----------------|---------------|---------|-------|------------|----------|---------------------------------|--|----------------------------|------------------------------------------|--------------------------------|------------------|--------------------|--------------------|----|-----|---------------------------|------------|
|                |               |         |       |            |          |                                 |  |                            |                                          |                                |                  |                    | H                  | L  | A   |                           |            |
|                |               |         |       |            |          |                                 |  |                            |                                          |                                |                  |                    |                    |    |     |                           |            |
| 66 farmers     |               |         |       |            |          |                                 |  |                            |                                          | Seed + Thiomethoxam(for Aphid) | Rajendra Sufalam | 2kg seed /acre     | 14                 | 82 | 131 | 11.6                      | 1293       |

| Name of farmer | Father's name | Village | Block | Mobile No. | Email ID | GPS Coordinates (DDMMSS format) |           | Soil testing done (Yes/No) | Recommendations based on soil test value | Brief technology intervention              | Variety | Seed quantity used | Demo. Yield (q/ha) |     |      | Yield of local check q/ha | % increase |
|----------------|---------------|---------|-------|------------|----------|---------------------------------|-----------|----------------------------|------------------------------------------|--------------------------------------------|---------|--------------------|--------------------|-----|------|---------------------------|------------|
|                |               |         |       |            |          | Latitude                        | Longitude |                            |                                          |                                            |         |                    | H                  | L   | A    |                           |            |
| 50 farmers     |               |         |       |            |          |                                 |           |                            |                                          | Seed+ Rhizobium+Chlorpyrifos+ Carben dazim | HUL 57  | 16 Kg/acre         | 17.5               | 8.6 | 12.8 | 11.2                      | 14.28      |

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| Name of farmer | Father's name | Village | Block | Mobile No. | Email ID | GPS Coordinates (DDMMSS format) |           | Soil testing done (Yes/No) | Recommendations based on soil test value | Brief technology intervention | Variety | Seed quantity used | Demo. Yield (q/ha) |      |      | Yield of local check q/ha | % increase |
|----------------|---------------|---------|-------|------------|----------|---------------------------------|-----------|----------------------------|------------------------------------------|-------------------------------|---------|--------------------|--------------------|------|------|---------------------------|------------|
|                |               |         |       |            |          | Latitude                        | Longitude |                            |                                          |                               |         |                    | H                  | L    | A    |                           |            |
| 50 farmers     |               |         |       |            |          |                                 |           | Yes                        |                                          |                               | HUDP-15 | 32 Kg/acre         | 22                 | 10.7 | 15.5 | 13                        | 19.23      |

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

[illegible]

[illegible]

[illegible]

### B) Rural Youth (on campus)

[illegible]



| Thematic Area                                           | No. of Courses | No. of Participants |    |     |    |    |    |    |   |   | Grand Total |    |     |
|---------------------------------------------------------|----------------|---------------------|----|-----|----|----|----|----|---|---|-------------|----|-----|
|                                                         |                | Other               |    |     | SC |    |    | ST |   |   |             |    |     |
|                                                         |                | M                   | F  | T   | M  | F  | T  | M  | F | T | M           | F  | T   |
| Commercial fruit production                             |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Repair and maintenance of farm machinery and implements | 4              | 55                  | 0  | 55  | 16 | 0  | 16 | 0  | 0 | 0 | 71          | 0  | 71  |
| Nursery Management of Horticulture crops                |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Training and pruning of orchards                        |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Value addition                                          |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Production of quality animal products                   |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Dairying                                                | 3              | 58                  | 7  | 65  | 7  | 7  | 14 | 0  | 0 | 0 | 65          | 14 | 79  |
| Sheep and goat rearing                                  | 1              | 18                  | 0  | 18  | 2  | 4  | 6  | 0  | 0 | 0 | 20          | 4  | 24  |
| Quail farming                                           |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Piggery                                                 |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Rabbit farming                                          |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Poultry production                                      | 2              | 36                  | 6  | 42  | 6  | 4  | 10 | 0  | 0 | 0 | 42          | 10 | 52  |
| Ornamental fisheries                                    |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Enterprise development                                  |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Para vets                                               |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Para extension workers                                  |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Composite fish culture                                  |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Freshwater prawn culture                                |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Shrimp farming                                          |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Pearl culture                                           |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Cold water fisheries                                    |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Fish harvest and processing technology                  |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Fry and fingerling rearing                              |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Small scale processing                                  |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Post Harvest Technology                                 |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Tailoring and Stitching                                 |                |                     |    |     |    |    |    |    |   |   |             |    |     |
| Rural Crafts                                            | 1              | 0                   | 10 | 10  | 0  | 2  | 2  | 0  | 0 | 0 | 0           | 12 | 12  |
| TOTAL                                                   | 17             | 253                 | 43 | 296 | 45 | 27 | 72 | 0  | 0 | 0 | 298         | 70 | 368 |

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| Thematic Area                                                        | No. of Courses | No. of Participants |    |     |    |    |     |    |   |   | Grand Total |    |     |
|----------------------------------------------------------------------|----------------|---------------------|----|-----|----|----|-----|----|---|---|-------------|----|-----|
|                                                                      |                | Other               |    |     | SC |    |     | ST |   |   | M           | F  | T   |
|                                                                      |                | M                   | F  | T   | M  | F  | T   | M  | F | T |             |    |     |
| Soil fertility management                                            |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Soil and Water Conservation                                          |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Integrated Nutrient Management                                       |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Production and use of organic inputs                                 |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Management of Problematic soils                                      |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Micro nutrient deficiency in crops                                   |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Nutrient Use Efficiency                                              |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Soil and Water Testing                                               |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Others, if any                                                       |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| <b>IV. Livestock Production and Management</b>                       |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Dairy Management                                                     |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Poultry Management                                                   | 1              | 3                   | 0  | 3   | 5  | 17 | 22  | 0  | 0 | 0 | 8           | 17 | 25  |
| Piggery Management                                                   | 1              | 0                   | 0  | 0   | 15 | 5  | 20  | 0  | 0 | 0 | 15          | 5  | 20  |
| Rabbit Management                                                    |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Disease Management                                                   | 9              | 308                 | 12 | 320 | 56 | 57 | 113 | 0  | 0 | 0 | 364         | 69 | 433 |
| Feed management                                                      | 4              | 35                  | 8  | 43  | 17 | 13 | 30  | 0  | 0 | 0 | 52          | 21 | 73  |
| Production of quality animal products                                |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Others, if any Layer management                                      | 1              | 17                  | 0  | 17  | 5  | 0  | 5   | 0  | 0 | 0 | 22          | 0  | 22  |
| Nutritional management                                               | 1              | 8                   | 2  | 10  | 15 | 0  | 15  | 0  | 0 | 0 | 23          | 2  | 25  |
| <b>V. Home Science/Women empowerment</b>                             |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Household food security by kitchen gardening and nutrition gardening | 3              | 84                  | 6  | 90  | 25 | 9  | 34  | 0  | 0 | 0 | 109         | 15 | 124 |
| Design and development of low/minimum cost diet                      |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Designing and development for high nutrient efficiency diet          |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Minimization of nutrient loss in processing                          | 1              | 9                   | 0  | 9   | 2  | 10 | 12  | 0  | 0 | 0 | 11          | 10 | 21  |
| Gender mainstreaming through SHGs                                    | 1              | 13                  | 3  | 16  | 2  | 5  | 7   | 0  | 0 | 0 | 15          | 8  | 23  |
| Storage loss minimization techniques                                 | 3              | 39                  | 4  | 43  | 5  | 1  | 6   | 0  | 0 | 0 | 44          | 5  | 49  |
| Enterprise development                                               |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Value addition                                                       | 3              | 49                  | 6  | 55  | 11 | 3  | 14  | 0  | 0 | 0 | 60          | 9  | 69  |
| Income generation activities for empowerment of rural Women          | 3              | 26                  | 18 | 44  | 5  | 27 | 32  | 0  | 0 | 0 | 31          | 45 | 76  |
| Location specific drudgery reduction technologies                    | 3              | 56                  | 7  | 63  | 18 | 14 | 32  | 0  | 0 | 0 | 74          | 21 | 95  |
| Rural Crafts                                                         |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Capacity building                                                    |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Women and child care                                                 |                |                     |    | 0   |    |    | 0   |    |   |   | 0           | 0  | 0   |
| Others, Post harvest technology                                      | 2              | 25                  | 2  | 27  | 10 | 1  | 11  | 0  | 0 | 0 | 35          | 3  | 38  |
| Small Scale Processing                                               | 2              | 29                  | 2  | 31  | 6  | 1  | 7   | 0  | 0 | 0 | 35          | 3  | 38  |
| <b>VI. Agril. Engineering</b>                                        |                |                     |    |     |    |    |     |    |   |   |             |    |     |
| Installation and maintenance of micro irrigation systems             | 3              | 126                 | 6  | 132 | 36 | 3  | 39  | 0  | 0 | 0 | 162         | 9  | 171 |
| Use of Plastics in farming practices                                 | 1              | 14                  | 1  | 15  | 3  | 1  | 4   | 0  | 0 | 0 | 17          | 2  | 19  |
| Production of small tools and implements                             | 1              | 15                  | 0  | 15  | 4  | 0  | 4   | 0  | 0 | 0 | 19          | 0  | 19  |
| Repair and maintenance of farm machinery and implements              | 7              | 101                 | 6  | 107 | 16 | 10 | 26  | 0  | 0 | 0 | 117         | 16 | 133 |

[illegible]

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| Thematic Area                          | No. of Course<br>s | No. of Participants |    |     |     |    |     |    |   |   | Grand Total |    |     |
|----------------------------------------|--------------------|---------------------|----|-----|-----|----|-----|----|---|---|-------------|----|-----|
|                                        |                    | Other               |    |     | SC  |    |     | ST |   |   |             |    |     |
|                                        |                    | M                   | F  | T   | M   | F  | T   | M  | F | T | M           | F  | T   |
| Fish harvest and processing technology |                    |                     |    |     |     |    |     |    |   |   |             |    |     |
| Fry and fingerling rearing             |                    |                     |    |     |     |    |     |    |   |   |             |    |     |
| Small scale processing                 |                    |                     |    |     |     |    |     |    |   |   |             |    |     |
| Post Harvest Technology                | 1                  | 12                  | 3  | 15  | 1   | 0  | 1   | 0  | 0 | 0 | 13          | 3  | 16  |
| Tailoring and Stitching                |                    |                     |    |     |     |    |     |    |   |   |             |    |     |
| Rural Crafts                           |                    |                     |    |     |     |    |     |    |   |   |             |    |     |
| Others, Income Generation              | 2                  | 84                  | 11 | 95  | 16  | 17 | 33  | 0  | 0 | 0 | 100         | 28 | 128 |
| Feeding management                     | 1                  | 25                  | 0  | 25  | 0   | 0  | 0   | 0  | 0 | 0 | 25          | 0  | 25  |
| Disease managemnet                     | 2                  | 38                  | 0  | 38  | 4   | 1  | 5   | 0  | 0 | 0 | 42          | 1  | 43  |
| Micro Irrigation                       | 3                  | 154                 | 10 | 164 | 45  | 18 | 63  | 0  | 0 | 0 | 199         | 28 | 227 |
| Bio-Control                            | 1                  | 22                  | 0  | 22  | 7   | 0  | 7   | 0  | 0 | 0 | 29          | 0  | 29  |
| IPM                                    | 1                  | 15                  | 0  | 15  | 3   | 0  | 3   | 0  | 0 | 0 | 18          | 0  | 18  |
| Weed management                        | 3                  | 84                  | 8  | 92  | 26  | 4  | 30  | 0  | 0 | 0 | 110         | 12 | 122 |
| TOTAL                                  | 17                 | 533                 | 34 | 567 | 132 | 43 | 175 | 0  | 0 | 0 | 665         | 77 | 742 |

## F) Extension Personnel (Off Campus)

| Thematic Area                                         | No. of Course<br>s | No. of Participants |    |     |    |   |    |    |   |   | Grand Total |    |     |
|-------------------------------------------------------|--------------------|---------------------|----|-----|----|---|----|----|---|---|-------------|----|-----|
|                                                       |                    | Other               |    |     | SC |   |    | ST |   |   |             |    |     |
|                                                       |                    | M                   | F  | T   | M  | F | T  | M  | F | T | M           | F  | T   |
| Productivity enhancement in field crops               |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Integrated Pest Management                            | 1                  | 99                  | 5  | 104 | 12 | 2 | 14 | 0  | 0 | 0 | 111         | 7  | 118 |
| Integrated Nutrient management                        | 1                  | 77                  | 10 | 87  | 9  | 2 | 11 | 0  | 0 | 0 | 86          | 12 | 98  |
| Rejuvenation of old orchards                          |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Protected cultivation technology                      |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Formation and Management of SHGs                      |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Group Dynamics and farmers organization               |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Information networking among farmers                  |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Capacity building for ICT application                 |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Care and maintenance of farm machinery and implements | 3                  | 165                 | 15 | 180 | 30 | 5 | 35 | 0  | 0 | 0 | 195         | 20 | 215 |
| WTO and IPR issues                                    |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Management in farm animals                            |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Livestock feed and fodder production                  |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Household food security                               |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Women and Child care                                  |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Low cost and nutrient efficient diet designing        |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Production and use of organic inputs                  |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Gender mainstreaming through SHGs                     |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Crop intensification                                  |                    |                     |    |     |    |   |    |    |   |   |             |    |     |
| Loss Minimization Technique                           | 1                  | 77                  | 10 | 87  | 9  | 2 | 11 | 0  | 0 | 0 | 86          | 12 | 98  |
| AI Techniques                                         | 1                  | 49                  | 0  | 49  | 6  | 0 | 6  | 0  | 0 | 0 | 55          | 0  | 55  |
| Resource Conservation Techniques                      | 1                  | 99                  | 5  | 104 | 12 | 2 | 14 | 0  | 0 | 0 | 111         | 7  | 118 |

### **i. Farmers & Farm Women**

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| Thematic Area                                                        | No. of Courses | No. of Participants |           |            |            |            |            |          |          |          | Grand Total |            |            |
|----------------------------------------------------------------------|----------------|---------------------|-----------|------------|------------|------------|------------|----------|----------|----------|-------------|------------|------------|
|                                                                      |                | Other               |           |            | SC         |            |            | ST       |          |          | M           | F          | T          |
|                                                                      |                | M                   | F         | T          | M          | F          | T          | M        | F        | T        |             |            |            |
| Micro nutrient deficiency in crops                                   |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Nutrient Use Efficiency                                              |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Soil and Water Testing                                               |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Others, if any                                                       |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| <b>TOTAL</b>                                                         |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| <b>IV. Livestock Production and Management</b>                       |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Dairy Management                                                     | 2              | 40                  | 2         | 42         | 7          | 17         | 24         | 0        | 0        | 0        | 47          | 19         | 66         |
| Poultry Management                                                   | 1              | 3                   | 0         | 3          | 5          | 17         | 22         | 0        | 0        | 0        | 8           | 17         | 25         |
| Piggery Management                                                   | 1              | 0                   | 0         | 0          | 15         | 5          | 20         | 0        | 0        | 0        | 15          | 5          | 20         |
| Rabbit Management                                                    |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Disease Management                                                   | 12             | 394                 | 12        | 406        | 66         | 57         | 123        | 0        | 0        | 0        | 472         | 93         | 530        |
| Feed management                                                      | 7              | 95                  | 16        | 111        | 19         | 23         | 42         | 0        | 0        | 0        | 72          | 81         | 153        |
| Production of quality animal products                                |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Others, if any (Nutritional Management)                              | 3              | 40                  | 10        | 50         | 15         | 3          | 18         | 0        | 0        | 0        | 55          | 13         | 68         |
| Layer Management                                                     | 1              | 17                  | 0         | 17         | 5          | 0          | 5          | 0        | 0        | 0        | 17          | 5          | 22         |
| <b>TOTAL</b>                                                         | <b>27</b>      | <b>589</b>          | <b>40</b> | <b>629</b> | <b>132</b> | <b>122</b> | <b>254</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>686</b>  | <b>233</b> | <b>884</b> |
| <b>V. Home Science/Women empowerment</b>                             |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Household food security by kitchen gardening and nutrition gardening | 3              | 84                  | 6         | 90         | 25         | 9          | 34         | 0        | 0        | 0        | 109         | 15         | 124        |
| Design and development of low/minimum cost diet                      | 1              | 0                   | 25        | 25         | 0          | 23         | 23         | 0        | 0        | 0        | 0           | 48         | 48         |
| Designing and development for high nutrient efficiency diet          |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Minimization of nutrient loss in processing                          | 2              | 9                   | 12        | 21         | 2          | 13         | 15         | 0        | 0        | 0        | 11          | 25         | 36         |
| Gender mainstreaming through SHGs                                    | 2              | 35                  | 5         | 40         | 9          | 22         | 31         | 0        | 0        | 0        | 44          | 27         | 95         |
| Storage loss minimization techniques                                 | 3              | 39                  | 4         | 43         | 5          | 1          | 6          | 0        | 0        | 0        | 44          | 5          | 49         |
| Enterprise development                                               |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Value addition                                                       | 3              | 49                  | 6         | 55         | 11         | 3          | 14         | 0        | 0        | 0        | 60          | 9          | 69         |
| Income generation activities for empowerment of rural Women          | 3              | 26                  | 18        | 44         | 5          | 27         | 32         | 0        | 0        | 0        | 31          | 45         | 76         |
| Location specific drudgery reduction technologies                    | 3              | 56                  | 7         | 63         | 18         | 14         | 32         | 0        | 0        | 0        | 74          | 21         | 95         |
| Rural Crafts                                                         |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Capacity building                                                    |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Women and child care                                                 |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Others, Post Harvest Technology                                      | 2              | 25                  | 2         | 27         | 10         | 1          | 11         | 0        | 0        | 0        | 35          | 3          | 38         |
| Small Scale Processing                                               | 2              | 29                  | 2         | 31         | 6          | 1          | 7          | 0        | 0        | 0        | 35          | 3          | 38         |
| <b>TOTAL</b>                                                         | <b>24</b>      | <b>352</b>          | <b>87</b> | <b>439</b> | <b>91</b>  | <b>114</b> | <b>205</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>443</b>  | <b>201</b> | <b>668</b> |
| <b>VI. Agril. Engineering</b>                                        |                |                     |           |            |            |            |            |          |          |          |             |            |            |
| Installation and maintenance of micro irrigation systems             | 3              | 126                 | 6         | 132        | 36         | 3          | 39         | 0        | 0        | 0        | 162         | 9          | 171        |

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| Thematic Area                                 | No. of Courses | No. of Participants |     |      |     |     |      |    |   |   | Grand Total |     |      |
|-----------------------------------------------|----------------|---------------------|-----|------|-----|-----|------|----|---|---|-------------|-----|------|
|                                               |                | Other               |     |      | SC  |     |      | ST |   |   |             |     |      |
|                                               |                | M                   | F   | T    | M   | F   | T    | M  | F | T | M           | F   | T    |
| Bio-fertilizer production                     |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Vermi-compost production                      |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Organic manures production                    |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Production of fry and fingerlings             |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Production of Bee-colonies and wax sheets     |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Small tools and implements                    |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Production of livestock feed and fodder       |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Production of Fish feed                       |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Others, if any                                |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| 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, if any                                |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| TOTAL                                         |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| XI Agro-forestry                              |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Production technologies                       |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Nursery management                            |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| Integrated Farming Systems                    |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| TOTAL                                         |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| XII. Others (Pl. Specify)                     |                |                     |     |      |     |     |      |    |   |   |             |     |      |
| TOTAL                                         | 130            | 2689                | 192 | 2881 | 640 | 363 | 1004 | 0  | 0 | 0 | 3329        | 555 | 3884 |

## ii. RURAL YOUTH (On and Off Campus)

| Thematic Area                                | No. of Courses | No. of Participants |    |    |    |    |    |    |   |   | Grand Total |    |     |
|----------------------------------------------|----------------|---------------------|----|----|----|----|----|----|---|---|-------------|----|-----|
|                                              |                | Other               |    |    | SC |    |    | ST |   |   |             |    |     |
|                                              |                | M                   | F  | T  | M  | F  | T  | M  | F | T | M           | F  | T   |
| Mushroom Production                          | 3              | 68                  | 22 | 90 | 15 | 11 | 26 | 0  | 0 | 0 | 83          | 33 | 116 |
| Bee-keeping                                  | 3              | 57                  | 0  | 57 | 9  | 0  | 9  | 0  | 0 | 0 | 63          | 3  | 66  |
| Integrated farming                           |                |                     |    |    |    |    |    |    |   |   |             |    |     |
| Seed production                              | 1              | 13                  | 0  |    | 2  | 0  |    | 0  | 0 | 0 | 15          | 0  | 15  |
| Production of organic inputs                 |                |                     |    |    |    |    |    |    |   |   |             |    |     |
| Planting material production                 |                |                     |    |    |    |    |    |    |   |   |             |    |     |
| Vermi-culture                                |                |                     |    |    |    |    |    |    |   |   |             |    |     |
| Sericulture                                  |                |                     |    |    |    |    |    |    |   |   |             |    |     |
| Protected cultivation of vegetable crops     |                |                     |    |    |    |    |    |    |   |   |             |    |     |
| Commercial fruit production                  |                |                     |    |    |    |    |    |    |   |   |             |    |     |
| Repair and maintenance of farm machinery and | 4              | 55                  | 0  | 55 | 16 | 0  | 16 | 0  | 0 | 0 | 65          | 6  | 71  |

| Thematic Area                            | No. of Courses | No. of Participants |           |            |            |           |            |          |          |          | Grand Total |            |             |
|------------------------------------------|----------------|---------------------|-----------|------------|------------|-----------|------------|----------|----------|----------|-------------|------------|-------------|
|                                          |                | Other               |           |            | SC         |           |            | ST       |          |          | M           | F          | T           |
|                                          |                | M                   | F         | T          | M          | F         | T          | M        | F        | T        | M           | F          | T           |
| implements                               |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Nursery Management of Horticulture crops |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Training and pruning of orchards         |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Value addition                           |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Production of quality animal products    |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Dairying                                 | 3              | 58                  | 7         | 65         | 7          | 7         | 14         | 0        | 0        | 0        | 65          | 14         | 79          |
| Sheep and goat rearing                   | 2              | 35                  | 0         | 35         | 2          | 6         | 8          | 0        | 0        | 0        | 37          | 6          | 43          |
| Quail farming                            |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Piggery                                  |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Rabbit farming                           |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Poultry production                       | 2              | 36                  | 6         | 42         | 6          | 4         | 10         | 0        | 0        | 0        | 42          | 10         | 52          |
| Ornamental fisheries                     |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Para vets                                |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Para extension workers                   |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Composite fish culture                   |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Freshwater prawn culture                 |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Shrimp farming                           |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Pearl culture                            |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Cold water fisheries                     |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Fish harvest and processing technology   |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Fry and fingerling rearing               |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Small scale processing                   |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Post Harvest Technology                  | 1              | 12                  | 3         | 15         | 1          | 0         | 1          | 0        | 0        | 0        | 13          | 3          | 16          |
| Tailoring and Stitching                  |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Rural Crafts                             | 1              | 0                   | 10        | 10         | 0          | 2         | 2          | 0        | 0        | 0        | 0           | 12         | 12          |
| Enterprise development                   |                |                     |           |            |            |           |            |          |          |          |             |            |             |
| Others if any Income generation          | 2              | 84                  | 11        | 95         | 16         | 17        | 33         | 0        | 0        | 0        | 100         | 28         | 128         |
| Feeding Management                       | 1              | 25                  | 0         | 25         | 0          | 0         | 0          | 0        | 0        | 0        | 25          | 0          | 25          |
| Disease Management                       | 2              | 38                  | 0         | 38         | 4          | 1         | 5          | 0        | 0        | 0        | 42          | 1          | 43          |
| Micro Irrigation                         | 3              | 154                 | 10        | 164        | 45         | 18        | 63         | 0        | 0        | 0        | 199         | 28         | 227         |
| Bio control                              | 1              | 22                  | 0         | 22         | 7          | 0         | 7          | 0        | 0        | 0        | 29          | 0          | 29          |
| IPM                                      | 1              | 15                  | 0         | 15         | 3          | 0         | 3          | 0        | 0        | 0        | 18          | 0          | 18          |
| Weed management                          | 2              | 84                  | 8         | 92         | 26         | 4         | 30         | 0        | 0        | 0        | 110         | 12         | 122         |
| <b>TOTAL</b>                             | <b>34</b>      | <b>786</b>          | <b>77</b> | <b>863</b> | <b>177</b> | <b>70</b> | <b>247</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>963</b>  | <b>147</b> | <b>1110</b> |

### iii. Extension Personnel (On and Off Campus)

| Thematic Area                                         | No. of Courses | No. of Participants |           |            |           |           |            |          |          |          | Grand Total |           |            |
|-------------------------------------------------------|----------------|---------------------|-----------|------------|-----------|-----------|------------|----------|----------|----------|-------------|-----------|------------|
|                                                       |                | Other               |           |            | SC        |           |            | ST       |          |          | M           | F         | T          |
|                                                       |                | M                   | F         | T          | M         | F         | T          | M        | F        | T        | M           | F         | T          |
| Productivity enhancement in field crops               |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Integrated Pest Management                            | 2              | 119                 | 5         | 124        | 16        | 3         | 19         | 0        | 0        | 0        | 135         | 8         | 143        |
| Integrated Nutrient management                        | 1              | 77                  | 10        | 87         | 9         | 2         | 11         | 0        | 0        | 0        | 86          | 12        | 98         |
| Rejuvenation of old orchards                          |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Value addition                                        |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Protected cultivation technology                      |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Formation and Management of SHGs                      |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Group Dynamics and farmers organization               |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Information networking among farmers                  |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Capacity building for ICT application                 |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Care and maintenance of farm machinery and implements | 3              | 165                 | 15        | 180        | 30        | 5         | 35         | 0        | 0        | 0        | 195         | 20        | 215        |
| WTO and IPR issues                                    |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Management in farm animals                            |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Livestock feed and fodder production                  |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Household food security                               |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Women and Child care                                  |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Low cost and nutrient efficient diet designing        |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Production and use of organic inputs                  |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Gender mainstreaming through SHGs                     |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Crop intensification                                  |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Others if any                                         |                |                     |           |            |           |           |            |          |          |          |             |           |            |
| Improved Implement                                    | 1              | 20                  | 0         | 20         | 4         | 1         | 5          | 0        | 0        | 0        | 24          | 1         | 25         |
| Loss and minimization technique                       | 1              | 77                  | 10        | 87         | 9         | 2         | 11         | 0        | 0        | 0        | 86          | 12        | 98         |
| AI Techniques                                         | 1              | 49                  | 0         | 49         | 6         | 0         | 6          | 0        | 0        | 0        | 55          | 0         | 55         |
| RCT                                                   | 1              | 99                  | 5         | 104        | 12        | 2         | 14         | 0        | 0        | 0        | 111         | 7         | 118        |
| Package & practices                                   | 1              | 20                  | 0         | 20         | 4         | 1         | 5          | 0        | 0        | 0        | 24          | 1         | 25         |
| <b>TOTAL</b>                                          | <b>11</b>      | <b>626</b>          | <b>45</b> | <b>671</b> | <b>90</b> | <b>16</b> | <b>106</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>716</b>  | <b>61</b> | <b>777</b> |

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

| Discipline      | Clientele | Title of the training programme                | Duration in days | Venue (Off / On Campus) | Number of participants |        |       | Number of SC/ST |        |       |
|-----------------|-----------|------------------------------------------------|------------------|-------------------------|------------------------|--------|-------|-----------------|--------|-------|
|                 |           |                                                |                  |                         | Male                   | Female | Total | Male            | Female | Total |
| Agronomy        |           |                                                |                  |                         |                        |        |       |                 |        |       |
| 25.04.2016      | PF        | Production techniques of green gram            | 1                | Off                     | 19                     | 0      | 19    | 2               | 0      | 2     |
| 6.04.2016       | PF        | Soil test & soil health card                   | 1                | On                      | 29                     | 19     | 48    | 7               | 17     | 24    |
| 6.05.2016       | PF        | Methods of soil sampling                       | 1                | Off                     |                        |        |       |                 |        |       |
| 25.05.2016      | PF        | Organic farming                                | 1                | Off                     | 48                     | 0      | 48    | 16              | 0      | 16    |
| 30.05.2016      | PF        | Organic farming                                | 1                | Off                     | 66                     | 0      | 66    | 4               | 0      | 4     |
| 16.08.2016      | PF        | Different methods to control parthenium        | 1                | On                      | 28                     | 0      | 28    | 0               | 0      | 0     |
| 14.09.2016      | PF        | Integrated weed management in kharif crops     | 1                | Off                     | 20                     | 1      | 21    | 5               | 1      | 6     |
| 15.09.2016      | PF        | Integarted nutrient management in paddy        | 1                | Off                     | 19                     | 0      | 19    | 4               | 0      | 4     |
| 4.10.2016       | PF        | Cultivation techniques of rabi pulses          | 1                | Off                     |                        |        |       |                 |        |       |
| 7.10.2016       | PF        | Cultivation techniques of rapeseed & mustard   | 1                | Off                     | 27                     | 0      | 27    | 7               | 0      | 7     |
| 11.11.2016      | PF        | Production techniques of rabi pulses           | 1                | Off                     | 15                     | 0      | 15    | 1               | 0      | 1     |
| 14.11.2016      | PF        | production techniques of potato                | 1                | Off                     | 11                     | 2      | 13    | 0               | 0      | 0     |
| 17.11.2016      | PF        | Production techniques of rabi oilseeds         | 1                | Off                     | 15                     | 2      | 17    | 0               | 2      | 2     |
| 05.12.2016      | PF        | Soil and Water testing                         | 1                | Off                     | 62                     | 5      | 67    | 12              | 4      | 16    |
| 15.12.2016      | PF        | Crop Production                                | 1                | Off                     | 17                     | 0      | 17    | 1               | 0      | 1     |
| 02.01.2017      | PF        | production techniques of rabi maize            | 1                | Off                     | 21                     | 4      | 25    | 4               | 3      | 7     |
| 06.01.2017      | PF        | Weed management in rabi crops                  | 1                | Off                     | 17                     | 1      | 18    | 15              | 1      | 16    |
| 17.01.2017      | PF        | Production techinques of summer moong          | 1                | Off                     | 14                     | 1      | 15    | 0               | 0      | 0     |
| 20.02.2017      | PF        | IWM in rabi crops                              | 1                | Off                     | 88                     | 3      | 91    | 13              | 2      | 15    |
| 21.02.2017      | PF        | Improved cultivation of summer moong & Sesamum | 1                | Off                     | 99                     | 5      | 104   | 14              | 2      | 16    |
| 20.03.2017      | PF        | Production technique of summer til             | 1                | Off                     | 18                     | 0      | 18    | 5               | 0      | 5     |
| 23.03.2017      | PF        | Production techniques of summer moong          | 1                | Off                     | 12                     | 4      | 16    | 2               | 1      | 3     |
| 17-20 Oct. 2016 | RY        | Methods of vermicompost production             | 4                | On                      | 24                     | 0      | 24    | 1               | 0      | 1     |
| 17.10.2016      | RY        | Integrated weed management                     | 1                | Off                     | 94                     | 9      | 103   | 22              | 2      | 24    |
| 07.12.2016      | RY        | Seed Production                                | 1                | Off                     | 16                     | 3      | 19    | 4               | 2      | 6     |
| 10-13 Jan 2017  | RY        | Production techniques of aromatic and          | 4                | On                      | 15                     | 0      | 15    | 2               | 0      | 2     |

|              |    |                                                   |   |     |     |    |     |    |    |    |
|--------------|----|---------------------------------------------------|---|-----|-----|----|-----|----|----|----|
|              |    | medicinal plants                                  |   |     |     |    |     |    |    |    |
| 19.05.2016   | EF | DSR                                               | 1 | Off | 111 | 7  | 118 | 12 | 2  | 14 |
| 19.08.2016   | EF | Package & practices of DSR                        | 1 | On  | 24  | 1  | 25  | 4  | 1  | 5  |
| 10.02.2017   | EF | Green manure crops production techniques and uses | 1 | Off | 86  | 12 | 98  | 9  | 2  | 11 |
| 17.10.2016   | EF | Kharpatwar Prabandhan                             | 1 | Off | 94  | 9  | 103 | 22 | 2  | 24 |
| 10.02.2017   | EF | Green manure crops production techniques and uses | 1 | Off | 86  | 12 | 98  | 9  | 2  | 11 |
| Home Science |    |                                                   |   |     |     |    |     |    |    |    |
| 6.5.2016     | PF | SHG formation & functioning                       | 1 | On  | 29  | 19 | 48  | 7  | 17 | 24 |
| 17.06.2016   | PF | Making green mango squash                         | 1 | Off | 21  | 0  | 21  | 4  | 0  | 4  |
| 18.06.2016   | PF | Nutritional security through pulse processing     | 1 | Off | 11  | 1  | 12  | 5  | 0  | 5  |
| 21.06.2016   | PF | Drudgery reduction among farm women               | 1 | Off | 0   | 18 | 18  | 0  | 12 | 12 |
| 18.07.2016   | PF | Minimization of nutrient loss in processing       | 1 | On  | 0   | 15 | 15  | 0  | 3  | 3  |
| 10.08.2016   | PF | Scientific grain storage                          | 1 | Off | 18  | 1  | 19  | 3  | 0  | 3  |
| 11.08.2016   | PF | Nutritional gardening                             | 1 | Off | 10  | 5  | 15  | 3  | 5  | 8  |
| 10.08.2016   | PF | Scientific storage technique                      | 1 | Off | 18  | 1  | 19  | 3  | 0  | 3  |
| 11.08.2016   | PF | Nutrition gardening                               | 1 | Off | 10  | 5  | 15  | 3  | 5  | 8  |
| 31.08.2016   | PF | Precaution taken in processing of foods           | 1 | Off | 11  | 10 | 21  | 2  | 10 | 12 |
| 21.09.2016   | PF | Grain storage technique in rainy season           | 1 | Off | 12  | 3  | 15  | 2  | 1  | 3  |
| 05.10.2016   | PF | Mushroom production                               | 1 | Off | 14  | 2  | 16  | 3  | 2  | 5  |
| 20.10.2016   | PF | Awala Preservation                                | 1 | Off | 22  | 5  | 27  | 4  | 1  | 5  |
| 10.11.2016   | PF | SHG formation & functioning                       | 1 | Off | 15  | 8  | 23  | 2  | 5  | 7  |
| 22.11.2016   | PF | Post harvest technology                           | 1 | Off | 24  | 2  | 26  | 5  | 1  | 6  |
| 23.11.2016   | PF | Drudgery reduction farm operation                 | 1 | Off | 13  | 2  | 15  | 3  | 1  | 4  |
| 6.12.2016    | PF | Mushroom production                               | 1 | Off | 17  | 0  | 17  | 2  | 0  | 2  |
| 27.12.2016   | PF | Fruit conservation                                | 1 | Off | 17  | 4  | 21  | 3  | 2  | 5  |
| 12.01.2017   | PF | Food processing                                   | 1 | Off | 18  | 1  | 19  | 3  | 0  | 3  |
| 17.1.2017    | PF | Scientific storage technique                      | 1 | Off | 14  | 1  | 15  | 0  | 0  | 0  |
| 23.01.2017   | PF | Nutritional                                       | 1 | Off | 12  | 4  | 16  | 3  | 2  | 5  |



|                 |    |                                                                     |   |     |     |    |     |    |    |    |
|-----------------|----|---------------------------------------------------------------------|---|-----|-----|----|-----|----|----|----|
|                 |    | gardening                                                           |   |     |     |    |     |    |    |    |
| 25.01.2017      | PF | Importance of preparation of low cost nutritional food for children | 1 | On  | 0   | 48 | 48  | 23 | 0  | 23 |
| 02.02.2017      | PF | Kitchen gardening                                                   | 1 | Off | 87  | 6  | 93  | 19 | 2  | 21 |
| 21.02.2017      | PF | Drudgery Reduction                                                  | 1 | Off | 61  | 1  | 62  | 15 | 1  | 16 |
| 17.02.2017      | PF | Food Processing                                                     | 1 | Off | 17  | 2  | 19  | 3  | 1  | 4  |
| 08.03.2017      | PF | Bag making                                                          | 1 | Off | 0   | 43 | 43  | 0  | 25 | 25 |
| 28-29/07/2016   | RY | Rural crafts                                                        | 3 | On  | 0   | 12 | 12  | 0  | 2  | 2  |
| 26-30/09.2016   | RY | Mushroom Production                                                 | 5 | On  | 12  | 17 | 29  | 1  | 5  | 6  |
| 24-25 Oct. 2016 | RY | Candle making                                                       | 2 | On  | 4   | 16 | 20  | 1  | 4  | 5  |
| 28.10.2016      | RY | Scientific storage technique                                        | 1 | On  | 19  | 0  | 19  | 2  | 0  | 2  |
| 16-17 Nov. 2016 | RY | Mushroom production                                                 | 2 | On  | 7   | 13 | 20  | 2  | 5  | 7  |
| 20.01.2016      | RY | Importance of bee keeping                                           | 1 | On  | 20  | 0  | 20  | 3  | 0  | 3  |
| 09.02.2017      | RY | Value Addition                                                      | 1 | Off | 48  | 0  | 48  | 18 | 0  | 18 |
| 14.02.2017      | RY | Mushroom Production                                                 | 1 | Off | 64  | 3  | 67  | 12 | 1  | 13 |
| 16.02.2017      | RY | Rural Self employment                                               | 1 | Off | 87  | 25 | 112 | 15 | 17 | 32 |
| 19.05.2016      | EF | Making Green Mango Squash                                           | 1 | Off | 111 | 7  | 118 | 12 | 2  | 14 |
| 18.10.2016      | EF | Nutritional Gardening                                               | 1 | Off | 94  | 9  | 103 | 22 | 2  | 24 |
| 10.02.2017      | EF | Loss minimization techniques                                        | 1 | Off | 86  | 12 | 98  | 9  | 2  | 11 |
| Agril. Engg.    |    |                                                                     |   |     |     |    |     |    |    |    |
| 6.04.2016       | PF | Techniques of increasing crop water use efficiency                  | 1 | On  | 29  | 19 | 48  | 7  | 17 | 24 |
| 20.4.2016       | PF | Summer ploughing implements                                         | 1 | Off | 13  | 2  | 15  | 1  | 2  | 3  |
| 3.05.2016       | PF | Improved tillage/ Sowing implements                                 | 1 | Off | 16  | 0  | 16  | 1  | 0  | 1  |
| 6.05.2016       | PF | In-situ moisture conservation technique                             | 1 | Off | 20  | 0  | 20  | 4  | 0  | 4  |
| 6.06.2016       | PF | Soil moisture conservation technique                                | 1 | Off | 21  | 0  | 21  | 6  | 0  | 6  |
| 10.06.2016      | PF | Machine for DSR                                                     | 1 | On  | 18  | 1  | 19  | 2  | 1  | 3  |
| 17.06.2016      | PF | Rain water conservation technique                                   | 1 | Off | 21  | 0  | 21  | 4  | 0  | 4  |
| 18.06.2016      | PF | Water harvesting through surface water storage                      | 1 | Off | 11  | 1  | 12  | 5  | 0  | 5  |

|            |    |                                                              |   |     |    |   |    |    |   |    |
|------------|----|--------------------------------------------------------------|---|-----|----|---|----|----|---|----|
|            |    | structures                                                   |   |     |    |   |    |    |   |    |
| 26.07.2016 | PF | Working of paddy transplanter                                | 1 | Off | 21 | 0 | 21 | 4  | 0 | 4  |
| 08.08.2016 | PF | Operation of direct paddy seeders                            | 1 | Off | 21 | 0 | 21 | 1  | 0 | 1  |
| 13.08.2016 | PF | Rain water conservation method                               | 1 | Off | 77 | 1 | 78 | 13 | 0 | 13 |
| 10.08.2016 | PF | Rain water harvested & storage                               | 1 | Off | 18 | 1 | 19 | 3  | 0 | 3  |
| 11.08.2016 | PF | Water management in paddy                                    | 1 | Off | 10 | 5 | 15 | 3  | 5 | 8  |
| 14.09.2016 | PF | On farm water management in paddy                            | 1 | Off | 20 | 1 | 21 | 5  | 1 | 6  |
| 15.09.2016 | PF | Improved weeding tools & implements                          | 1 | Off | 19 | 0 | 19 | 4  | 0 | 4  |
| 21.09.2016 | PF | Techniques of rain water harvesting, storage and its use     | 1 | Off | 12 | 3 | 15 | 2  | 1 | 3  |
| 5.10.2016  | PF | Management of available water resources                      | 1 | Off | 14 | 3 | 16 | 3  | 2 | 5  |
| 18.10.2016 | PF | Mechanized harvesting and threshing of paddy                 | 1 | Off | 15 | 4 | 19 | 3  | 2 | 5  |
| 20.10.2016 | PF | Judicious use of harvesting rain water                       | 1 | Off | 22 | 5 | 27 | 4  | 1 | 5  |
| 28.10.2016 | PF | Mechanized threshing of paddy                                | 1 | Off | 19 | 0 | 19 | 2  | 0 | 2  |
| 10.11.2016 | PF | Operation, repair, maintenance and calibration of ZT machine | 1 | Off | 15 | 7 | 22 | 2  | 5 | 7  |
| 23.11.2016 | PF | Wheat sowing by ZT machine                                   | 1 | Off | 13 | 2 | 15 | 3  | 1 | 4  |
| 06.12.2016 | PF | Boarder/ furrow irrigation in wheat                          | 1 | Off | 17 | 0 | 17 | 2  | 0 | 2  |
| 26.12.2016 | PF | Irrigation scheduling in rabi crops                          | 1 | Off | 18 | 0 | 18 | 3  | 0 | 3  |
| 27.12.2016 | PF | Wheat sowing by ZT machine                                   | 1 | Off | 17 | 4 | 21 | 3  | 2 | 5  |
| 06.01.2017 | PF | Water conservation                                           | 1 | Off | 11 | 2 | 13 | 2  | 1 | 3  |
| 02.02.2017 | PF | Micro Irrigation System Installation                         | 1 | Off | 87 | 6 | 93 | 19 | 2 | 21 |
| 17.02.2017 | PF | Use of mulches for moisture conservation                     | 1 | Off | 17 | 2 | 19 | 3  | 1 | 4  |
| 21.02.2017 | PF | Sprinkler irrigation for rabi crops                          | 1 | Off | 61 | 1 | 62 | 15 | 1 | 16 |
| 07.03.2017 | PF | Wheat irrigation by sprinkler system                         | 1 | Off | 14 | 2 | 16 | 2  | 0 | 2  |

|                  |    |                                                            |   |     |    |    |     |    |    |    |
|------------------|----|------------------------------------------------------------|---|-----|----|----|-----|----|----|----|
| 09.03.2017       | PF | Moisture conservation in crop production                   | 1 | Off | 17 | 0  | 17  | 2  | 0  | 2  |
| 15.03.2017       | PF | Improved equipment of PHT                                  | 1 | Off | 19 | 2  | 21  | 4  | 2  | 6  |
| 10-11 May 2016   | RY | Improved tillage/ Sowing implements                        | 2 | On  | 15 | 0  | 15  | 2  | 0  | 2  |
| 15-16 July 2016  | RY | Mechanical paddy transplantation                           | 2 | On  | 22 | 0  | 22  | 6  | 0  | 6  |
| 04-05.08.2016    | RY | Use, care & working of paddy drum seeder                   | 2 | On  | 12 | 6  | 18  | 6  | 0  | 6  |
| 13-14 Dec. 2016  | RY | Repair, maintenance and calibration of ZT machine          | 2 | On  | 16 | 0  | 16  | 2  | 0  | 2  |
| 09.02.2017       | RY | Sprinkler irrigation system installation                   | 1 | Off | 48 | 0  | 48  | 18 | 0  | 18 |
| 14.02.2017       | RY | Drip irrigation techniques                                 | 1 | Off | 64 | 3  | 67  | 12 | 1  | 13 |
| 16.02.2017       | RY | Operation & maintenance of drip system                     | 1 | Off | 87 | 25 | 112 | 15 | 17 | 32 |
| 15.02.2017       | RY | PHT equipments for income generation                       | 1 | Off | 13 | 3  | 16  | 1  | 0  | 1  |
| 19.08.2016       | EF | Mechanised paddy cultivation through DSR machines          | 1 | On  | 24 | 1  | 25  | 4  | 1  | 5  |
| 17.10.2016       | EF | Operation & calibration of ZTT machine                     | 1 | Off | 94 | 9  | 103 | 22 | 2  | 24 |
| 21.10.2016       | EF | Use & working of sowing and harvesting machines            | 1 | Off | 60 | 5  | 65  | 6  | 2  | 8  |
| 08.12.2016       | EF | repair, maintenance and calibration of ZT machine          | 1 | Off | 41 | 6  | 47  | 2  | 1  | 3  |
| Plant Protection |    |                                                            |   |     |    |    |     |    |    |    |
| 6.04.2016        | PF | Production of biopesticide & their control                 | 1 | On  | 29 | 19 | 48  | 7  | 17 | 24 |
| 25.04.2016       | PF | management of insect pest & disease in summer vegetable    | 1 | Off | 19 | 0  | 19  | 2  | 0  | 2  |
| 3.05.2016        | PF | management of insect pest and mosaic virus in okra & moong | 1 | Off | 16 | 0  | 16  | 1  | 0  | 1  |

|            |    |                                                                    |   |     |    |    |    |    |   |    |
|------------|----|--------------------------------------------------------------------|---|-----|----|----|----|----|---|----|
| 6.05.2016  | PF | IPM & IDM in paddy nursery                                         | 1 | Off | 20 | 0  | 20 | 4  | 0 | 4  |
| 24.05.2016 | PF | Pest management in paddy in light of climate resilient agriculture | 1 | Off | 94 | 0  | 94 | 22 | 0 | 22 |
| 28.05.2016 | PF | Pest management in paddy in light of climate resilient agriculture | 1 | Off | 51 | 0  | 51 | 21 | 0 | 21 |
| 29.05.2016 | PF | YVMV in okra & moong                                               | 1 | Off | 67 | 0  | 67 | 2  | 0 | 2  |
| 6.06.2016  | PF | Management of insect pests & disease in paddy                      | 1 | Off | 21 | 0  | 21 | 6  | 0 | 6  |
| 13.06.2016 | PF | Seed treatment in kharif crops                                     | 1 | On  | 19 | 0  | 19 | 5  | 0 | 5  |
| 11.07.2016 | PF | Management of insect pest and disease in paddy                     | 1 | Off | 22 | 10 | 32 | 12 | 9 | 21 |
| 26.07.2016 | PF | Management of insect pest and disease in paddy                     | 1 | Off | 21 | 0  | 21 | 4  | 0 | 4  |
| 04.08.2016 | PF | IPM & IDM in paddy                                                 | 1 | Off | 19 | 5  | 24 | 3  | 2 | 5  |
| 08.08.2016 | PF | Pest management in kharif oilseed & pulses                         | 1 | Off | 21 | 0  | 21 | 1  | 0 | 1  |
| 13.08.2016 | PF | Pest management in paddy (Farmers scientist interaction)           | 1 | Off | 77 | 1  | 78 | 13 | 0 | 13 |
| 14.09.2016 | PF | Management of insect pest in kharif vegetable                      | 1 | Off | 19 | 1  | 20 | 4  | 1 | 5  |
| 15.09.2016 | PF | Management of insect pest in kharif oilseed and pulses             | 1 | Off | 0  | 19 | 19 | 4  | 0 | 4  |
| 07.10.2016 | PF | Wilt management in lentil & chickpea                               | 1 | Off | 20 | 0  | 20 | 2  | 0 | 2  |
| 21.10.2016 | PF | Wilt management in lentil & chickpea                               | 1 | Off | 21 | 0  | 21 | 5  | 0 | 5  |
| 28.10.2016 | PF | IPM in vegetable crops                                             | 1 | Off | 19 | 0  | 19 | 2  | 0 | 2  |
| 15.11.2016 | PF | Seed treatment in rabi crops                                       | 1 | Off | 29 | 5  | 34 | 4  | 3 | 7  |
| 16.11.2016 | PF | IPM in vegetable crops                                             | 1 | Off | 17 | 3  | 20 | 3  | 2 | 5  |
| 22.11.2016 | PF | Seed treatment in rabi crops                                       | 1 | Off | 24 | 2  | 27 | 5  | 1 | 6  |
| 7.12.2016  | PF | Seed treatment in rabi crops                                       | 1 | Off | 16 | 3  | 19 | 4  | 2 | 6  |
| 13.12.2016 | PF | Blight management in potato                                        | 1 | Off | 22 | 0  | 22 | 5  | 0 | 5  |
| 27.12.2017 | PF | IPM in veg. crops                                                  | 1 | Off | 17 | 4  | 21 | 3  | 2 | 5  |

|                        |    |                                                               |    |     |     |    |     |    |    |    |
|------------------------|----|---------------------------------------------------------------|----|-----|-----|----|-----|----|----|----|
| 02.01.2017             | PF | IPM in vegetable crops                                        | 1  | Off | 21  | 4  | 25  | 4  | 3  | 7  |
| 06.01.2017             | PF | Blight management in potato & tomato                          | 1  | Off | 17  | 1  | 18  | 15 | 1  | 16 |
| 17.01.2017             | PF | IPM in rabi crops                                             | 1  | Off | 14  | 1  | 15  | 0  | 0  | 0  |
| 15.03.2017             | PF | Management of insect pest in moong & okra                     | 1  | Off | 19  | 2  | 21  | 4  | 2  | 6  |
| 20.03.2017             | PF | management of helioverpa in chickpea                          | 1  | Off | 18  | 0  | 18  | 5  | 0  | 5  |
| 22.03.2017             | PF | IPM in summer crop                                            | 1  | Off | 113 | 7  | 120 | 18 | 4  | 22 |
| 26-27 April 2016       | RY | Maintenance of plant protection equipments and its precaution | 2  | On  | 15  | 0  | 15  | 1  | 0  | 1  |
| 02.08.2016             | RY | Production of bio pesticide and there use in crops            | 1  | Off | 29  | 0  | 29  | 7  | 0  | 7  |
| 3-6.10.2016            | RY | sustainable bee keeping                                       | 4  | On  | 26  | 0  | 26  | 3  | 0  | 3  |
| 26.12.2016             | RY | Maintenance of pesticide application equipment                | 1  | Off | 18  | 0  | 18  | 3  | 0  | 3  |
| 02.02.17 to 08.03.2017 | RY | Bee Keeper ( Skill dev. ASCI)                                 | 29 | On  | 20  | 0  | 20  | 3  | 0  | 3  |
| 19.05.2016             | EF | Management of insect pests in kharif crops                    | 1  | Off | 111 | 7  | 118 | 12 | 2  | 14 |
| 19.08.2016             | EF | Pest management in DSR                                        | 1  | Off | 24  | 1  | 25  | 4  | 1  | 5  |
| Animal Science         |    |                                                               |    |     |     |    |     |    |    |    |
| 4.04.2016              | PF | Housing & feeding management of Poultry                       | 1  | Off | 23  | 2  | 25  | 15 | 0  | 15 |
| 6.04.2016              | PF | Recent technique of animal husbandry                          | 1  | On  | 29  | 19 | 48  | 7  | 17 | 24 |
| 25-26 April 2016       | PF | Housing & feeding management of cattle                        | 2  | On  | 12  | 11 | 23  | 0  | 3  | 3  |
| 3-4 May 2016           | PF | Disease Management of cattle                                  | 2  | On  | 25  | 25 | 25  | 5  | 0  | 5  |
| 6.05.2016              | PF | Nutritional managment in cattle                               | 1  | On  | 20  | 0  | 20  | 0  | 0  | 0  |
| 2.06.2016              | PF | Disease Management of poultry farming                         | 1  | Off | 8   | 17 | 25  | 5  | 17 | 22 |
| 16-17 June 16          | PF | Nutritional management of                                     | 2  | On  | 13  | 8  | 21  | 1  | 1  | 2  |

|                          |    |                                                        |   |     |    |    |    |    |    |    |
|--------------------------|----|--------------------------------------------------------|---|-----|----|----|----|----|----|----|
|                          |    | livestock                                              |   |     |    |    |    |    |    |    |
| 11.07.2016               | PF | Disease management of livestock                        | 1 | Off | 22 | 10 | 32 | 12 | 9  | 21 |
| 19.07.2016               | PF | Green fodder grass production & conservation           | 1 | Off | 59 | 16 | 75 | 0  | 3  | 3  |
| 04.08.2016               | PF | Feeding management of livestock                        | 1 | Off | 19 | 5  | 24 | 3  | 2  | 5  |
| 09.08.2016 to 10.08.2016 | PF | Housing & nutritional management of goat farming       | 2 | On  | 7  | 10 | 17 | 1  | 9  | 10 |
| 13.08.2016               | PF | Disease & its control of livestock                     | 1 | Off | 77 | 1  | 78 | 13 | 0  | 13 |
| 14.09.2016               | PF | Viral & bacterial disease of livestock                 | 1 | Off | 22 | 0  | 22 | 0  | 0  | 0  |
| 20.09.2016               | PF | Control of infection & contagious disease of livestock | 1 | Off | 39 | 2  | 41 | 5  | 1  | 6  |
| 21-22/09.2016            | PF | Care & management of viral disease of goat             | 2 | On  | 19 | 0  | 19 | 0  | 0  | 0  |
| 5.10.2016                | PF | Feeding management of cattle                           | 1 | Off | 11 | 6  | 17 | 3  | 3  | 6  |
| 6.10.2016                | PF | Feeding & disease management of cattle                 | 1 | On  | 52 | 0  | 52 | 5  | 0  | 5  |
| 7.10.2016                | PF | Housing & nutritional management of pig                | 1 | Off | 10 | 6  | 16 | 8  | 6  | 14 |
| 21.10.2016               | PF | Disease management of cattle                           | 1 | Off |    |    |    |    |    |    |
| 3.11.2016                | PF | Feeding management of cattle                           | 1 | On  | 0  | 42 | 42 | 0  | 0  | 0  |
| 14.11.2016               | PF | Control of infertility in cattle                       | 1 | Off | 93 | 3  | 96 | 5  | 3  | 8  |
| 16.11.2016               | PF | Disease management of small ruminants                  | 1 | Off | 49 | 17 | 66 | 12 | 17 | 29 |
| 17.11.2016               | PF | Disease management of goat                             | 1 | Off | 34 | 32 | 55 | 3  | 26 | 29 |
| 22.11.2016               | PF | Infertility in cattle & its control                    | 1 | Off | 24 | 2  | 26 | 5  | 1  | 6  |
| 28-29.11.2016            | PF | Dairy management                                       | 2 | On  | 18 | 0  | 18 | 0  | 0  | 0  |
| 13.12.2016               | PF | latest trend of layer management                       | 1 | Off | 17 | 5  | 22 | 5  | 0  | 5  |
| 15.12.2016               | PF | Feeding & disease                                      | 1 | Off | 16 | 1  | 17 | 1  | 0  | 1  |

|                          |    |                                                 |    |     |    |    |    |    |   |    |
|--------------------------|----|-------------------------------------------------|----|-----|----|----|----|----|---|----|
|                          |    | management of cattle & pigs                     |    |     |    |    |    |    |   |    |
| 23.01.2017               | PF | Housing & Nutritional management of goats       | 1  | Off | 12 | 4  | 16 | 3  | 2 | 5  |
| 02.02.2017               | PF | Pig farming                                     | 1  | Off | 15 | 5  | 20 | 15 | 5 | 20 |
| 9-13/5/16                | RY | Dairy management                                | 5  | On  | 27 | 0  | 27 | 3  | 0 | 3  |
| 6-10/06/16               | RY | Poultry farming                                 | 5  | On  | 22 | 10 | 32 | 4  | 4 | 8  |
| 12-14/07.2016            | RY | Dairy management                                | 3  | On  | 15 | 7  | 22 | 2  | 7 | 9  |
| 08.08.2016               | RY | Goat Farming                                    | 1  | Off | 17 | 2  | 19 | 0  | 2 | 2  |
| 07.09.2016               | RY | Nutritional management of livestock             | 1  | Off | 25 | 0  | 25 | 0  | 0 | 0  |
| 24-27.10.2016            | RY | Goat Farming                                    | 4  | On  | 20 | 4  | 24 | 2  | 4 | 6  |
| 7.12.2016                | RY | Parasitic control of livestock & small ruminant | 1  | Off | 26 | 0  | 26 | 0  | 0 | 0  |
| 19-23 Dec. 2016          | RY | Dairy farming                                   | 5  | On  | 23 | 7  | 30 | 2  | 0 | 2  |
| 16.01.2017               | RY | Disease control of goat                         | 1  | Off | 16 | 1  | 17 | 4  | 1 | 5  |
| 31.05.2016               | EF | Technique of AI                                 | 1  | Off | 55 | 0  | 55 | 6  | 0 | 6  |
| 06.02.2017 to 30.03.2017 | PF | Poultry Farm Worker (ASCI)                      | 29 | On  | 20 | 0  | 20 | 3  | 0 | 3  |

#### H) Vocational training programmes for Rural Youth

##### Details of training programmes for Rural Youth

| Crop / Enterprise             | Identified Thrust Area        | Training title*                                        | Duration (days) | No. of Participants |        |       | Self employed after training |                 |                            | Number of persons employed elsewhere |
|-------------------------------|-------------------------------|--------------------------------------------------------|-----------------|---------------------|--------|-------|------------------------------|-----------------|----------------------------|--------------------------------------|
|                               |                               |                                                        |                 | Male                | Female | Total | Type of units                | Number of units | Number of persons employed |                                      |
| Vermi Compost                 | Vermi Compost                 | Methods of vermicompost production                     | 4               | 24                  | 0      | 24    | Self                         | 4               | 4                          |                                      |
| Aromatic and medicinal plants | Aromatic and medicinal plants | Production techniques of aromatic and medicinal plants | 4               | 15                  | 0      | 15    | Self                         | -               | 1                          |                                      |
| Mushroom                      | Mushroom                      | Mushroom Production                                    | 5               | 12                  | 17     | 29    | Self - SHG                   | 5               | 5                          |                                      |
| Candle                        | Candle                        | Candle making                                          | 2               | 4                   | 16     | 20    | Self - SHG                   | 4               | 4                          |                                      |

|                             |                             |                                                               |    |    |    |    |             |    |    |  |
|-----------------------------|-----------------------------|---------------------------------------------------------------|----|----|----|----|-------------|----|----|--|
| Mushroom                    | Mushroom                    | Mushroom production                                           | 2  | 7  | 13 | 20 | Self - SH G | 4  | 4  |  |
| Improved tillage            | Improved tillage            | Improved tillage/ Sowing implements                           | 2  | 15 | 0  | 15 | Self        | 1  | 1  |  |
| Paddy                       | Paddy                       | Mechanical paddy transplantation                              | 2  | 22 | 0  | 22 | -           | 1  | 1  |  |
| Paddy drum seeder           | Paddy drum seeder           | Use, care & working of paddy drum seeder                      | 2  | 12 | 6  | 18 | Self        | 2  | 2  |  |
| Zero Tillage                | Zero Tillage                | Repair, maintenance and calibration of ZT machine             | 2  | 16 | 0  | 16 | Self        | 2  | 2  |  |
| Plant Protection            | Plant Protection            | Maintenance of plant protection equipments and its precaution | 2  | 15 | 0  | 15 | Self        | 6  | 6  |  |
| Bee Keeping                 | Bee Keeping                 | sustainable bee keeping                                       | 4  | 26 | 0  | 26 | Self        | 8  | 7  |  |
| Bee Keepers                 | Bee Keepers                 | Bee Keeper ( Skill dev. ASCI)                                 | 29 | 20 | 0  | 20 | Self        | 6  | 6  |  |
| Dairy managment             | Dairy managment             | Dairy management                                              | 5  | 27 | 0  | 27 | Self        | 9  | 9  |  |
| Poultry Farming             | Poultry Farming             | Poultry farming                                               | 5  | 22 | 10 | 32 | Self        | 4  | 4  |  |
| Dairy managment             | Dairy managment             | Dairy management                                              | 3  | 15 | 7  | 22 | Self        | 3  | 3  |  |
| Goat farming                | Goat farming                | Goat Farming                                                  | 4  | 20 | 4  | 24 | Self        | 12 | 12 |  |
| Dairy farming               | Dairy farming               | Dairy farming                                                 | 5  | 23 | 7  | 30 | Self        | 4  | 4  |  |
| Broiler Poultry Farm Worker | Broiler Poultry Farm Worker | Broiler Poultry Farm Worker                                   | 29 | 20 | 0  | 20 | Self        | 3  | 3  |  |

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



## I) Sponsored Training Programmes

| Sl<br>·<br>No | Title                                                  | Thematic<br>area                   | Month              | Dur<br>atio<br>n<br>(day<br>s) | Clie<br>nt       | No<br>·<br>of<br>co<br>urs<br>es | No. of Participants |    |        |                |    |        |                |    |        |           | Spons<br>oring<br>Agenc<br>y |
|---------------|--------------------------------------------------------|------------------------------------|--------------------|--------------------------------|------------------|----------------------------------|---------------------|----|--------|----------------|----|--------|----------------|----|--------|-----------|------------------------------|
|               |                                                        |                                    |                    |                                | PF/<br>RY/<br>EF |                                  | Male                |    |        | Female         |    |        | Total          |    |        |           |                              |
|               |                                                        |                                    |                    |                                |                  |                                  | Ot<br>her<br>s      | SC | S<br>T | Ot<br>her<br>s | SC | S<br>T | Ot<br>her<br>s | SC | S<br>T | Tot<br>al |                              |
| 1.            | Bee Keeper ( Skill<br>dev. ASCI)                       | Bee keeping                        | Feb- March<br>2017 | 29                             | RY               | 29                               | 17                  | 3  | 0      | 0              | 0  | 0      | 17             | 3  | 0      | 20        | ASCI<br>(Skill<br>Dev.)      |
| 2.            | Broiler Poultry<br>Farm Worker                         | Poultry<br>management              | Feb- March<br>2017 | 29                             | RY               | 29                               | 17                  | 3  | 0      | 0              | 0  | 0      | 17             | 3  | 0      | 20        | ASCI<br>(Skill<br>Dev.)      |
| 3.            | Kitchen Gardening                                      | Kitchen<br>gardening               | Feb. 17            | 1                              | PF               | 1                                | 68                  | 19 | 0      | 0              | 0  | 0      | 68             | 19 | 0      | 93        | DHO,<br>Jehan<br>abad        |
| 4             | Value Addition                                         | Value<br>Addition                  | Feb 17             | 1                              | RY               | 1                                | 30                  | 18 | 0      | 0              | 0  | 0      | 30             | 18 | 0      | 48        | DHO,<br>Jehan<br>abad        |
| 5             | Loss minimization<br>technique                         | Loss<br>minimizatio<br>n technique | Feb 17             | 1                              | EF               | 1                                | 77                  | 9  | 0      | 10             | 2  | 0      | 86             | 12 | 0      | 98        | ATM<br>A,<br>Jehan<br>abad   |
| 6             | Mushroom<br>Production                                 | Mushroom<br>Production             | Feb. 17            | 1                              | RY               | 1                                | 52                  | 12 | 0      | 2              | 1  | 0      | 64             | 3  | 0      | 67        | DHO,<br>Jehan<br>abad        |
| 7             | Income Generation                                      | Income<br>Generation               | Feb 17             | 1                              | RY               | 1                                | 72                  | 15 | 0      | 8              | 17 | 0      | 87             | 25 | 0      | 112       | DHO,<br>Jehan<br>abad        |
| 8             | Drudery Reduction                                      | Drudery<br>Reduction               | Feb 17             | 1                              | PF               | 1                                | 46                  | 15 | 0      | 0              | 1  | 0      | 61             | 1  | 0      | 62        | DHO,<br>Jehan<br>abad        |
| 9             | Sprinkler irrigation                                   | Micro<br>irrigation                | Feb. 17            | 1                              | PF               | 1                                | 68                  | 19 | 0      | 4              | 2  | 0      | 87             | 6  | 0      | 93        | DHO,<br>Jehan<br>abad        |
| 10            | Sprinkler irrigation                                   | Micro<br>irrigation                | Feb 17             | 1                              | PF               | 1                                | 30                  | 18 | 0      | 0              | 0  | 0      | 48             | 0  | 0      | 48        | DHO,<br>Jehan<br>abad        |
| 11            | Drip irrigation<br>technique                           | Micro<br>irrigation                | Feb 17             | 1                              | RY               | 1                                | 52                  | 12 | 0      | 2              | 1  | 0      | 64             | 3  | 0      | 67        | DHO,<br>Jehan<br>abad        |
| 12            | Micro irrigation                                       | Micro<br>irrigation                | Feb. 17            | 1                              | RY               | 1                                | 72                  | 15 | 0      | 8              | 17 | 0      | 87             | 25 | 0      | 112       | DHO,<br>Jehan<br>abad        |
| 13            | IWM in rabi crops                                      | Crop<br>Production                 | Feb 17             | 1                              | PF               | 1                                | 75                  | 13 | 0      | 1              | 2  | 0      | 88             | 3  | 0      | 91        | ATM<br>A,<br>Jehan<br>abad   |
| 14            | Improved<br>cultivation of<br>summer moong &<br>sesame | Crop<br>Production                 | Feb 17             | 1                              | PF               | 1                                | 85                  | 14 | 0      | 3              | 2  | 0      | 99             | 5  | 0      | 104       | ATM<br>A,<br>Jehan<br>abad   |

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

| Nature of Extension Activity            | No. of activities | Farmers |        |       | Extension Officials |        |       | Total |        |       |
|-----------------------------------------|-------------------|---------|--------|-------|---------------------|--------|-------|-------|--------|-------|
|                                         |                   | Male    | Female | Total | Male                | Female | Total | Male  | Female | Total |
| Field Day                               | 13                | 101     | 19     | 120   |                     |        |       | 101   | 19     | 120   |
| Kisan Mela                              | 4                 | 98      | 361    | 459   | 42                  | 6      | 48    | 140   | 367    | 507   |
| Kisan Ghosthi                           | 47                | 1398    | 514    | 1912  |                     |        |       | 1398  | 514    | 1912  |
| Exhibition                              | 7                 | 1810    | 360    | 2170  | 25                  | 6      | 31    | 1835  | 366    | 2201  |
| Film Show                               |                   |         |        |       |                     |        |       |       |        |       |
| Method Demonstrations                   |                   |         |        |       |                     |        |       |       |        |       |
| Farmers Seminar                         |                   |         |        |       |                     |        |       |       |        |       |
| Workshop                                | 24                | -       | -      | 24    |                     |        |       | -     | -      | 24    |
| Group meetings                          |                   |         |        |       |                     |        |       |       |        |       |
| Lectures delivered as resource persons  |                   |         |        |       |                     |        |       |       |        |       |
| Advisory Services                       | 4653              | 3938    | 715    | 4653  |                     |        |       | 3938  | 715    | 4653  |
| Scientific visit to farmers field       | 209               | 166     | 43     | 209   |                     |        |       | 166   | 43     | 209   |
| Farmers visit to KVK                    | 2132              | 1509    | 623    | 2132  |                     |        |       | 1509  | 623    | 2132  |
| Diagnostic visits                       | 74                | 62      | 12     | 74    |                     |        |       | 62    | 12     | 74    |
| Exposure visits                         | 1                 | 90      | 0      | 90    |                     |        |       | 90    | 0      | 90    |
| Ex-trainees Sammelan                    |                   |         |        |       |                     |        |       |       |        |       |
| Soil health Camp                        |                   |         |        |       |                     |        |       |       |        |       |
| Animal Health Camp                      | 4                 | 462     | 29     | 491   |                     |        |       | 462   | 29     | 491   |
| Agri mobile clinic                      |                   |         |        |       |                     |        |       |       |        |       |
| Soil test campaigns                     | 285               | 0       | 285    | 756   |                     |        |       | 0     | 285    | 756   |
| Farm Science Club Conveners meet        |                   |         |        |       |                     |        |       |       |        |       |
| Self Help Group Conveners meetings      | 5                 | -       | -      | 5     |                     |        |       | -     | -      | 5     |
| Mahila Mandals Conveners meetings       |                   |         |        |       |                     |        |       |       |        |       |
| Celebration of important days (specify) | 10                |         |        | 10    |                     |        |       |       |        | 10    |
| Training through video conferencing     | 34                | 243     | 599    | 842   |                     |        |       | 243   | 599    | 842   |
| Vaccination                             | 1                 | 112     | 9      | 121   |                     |        |       | 112   | 9      | 121   |
| Total                                   |                   |         |        |       |                     |        |       |       |        |       |

## B. Other Extension activities

| Nature of Extension Activity | No. of activities |
|------------------------------|-------------------|
| Newspaper coverage           | 43                |
| Radio talks                  | 7                 |
| TV talks                     | 3                 |
| Popular articles             | 2                 |

|                      |    |
|----------------------|----|
| Extension Literature | 13 |
| Other, if any        |    |

### 3.5 Production and supply of Technological products

#### Village seed

| Crop   | variety | Quantity of seed (q) | Value (Rs) | Provided to number of farmers |
|--------|---------|----------------------|------------|-------------------------------|
| Lentil | HUL-57  | 14                   | 1,19,000   | Seed Hub of 3 farmers         |
| Total  |         |                      |            |                               |

#### KVK farm

| Crop            | variety        | Quantity of seed (q) | Value (Rs) | Provided to number of farmers  |
|-----------------|----------------|----------------------|------------|--------------------------------|
| Wheat (2015-16) | HD 2967        | 16.50                | 210296     | 160                            |
|                 | HD 2985        | 57.46                |            |                                |
| Lobia           | Kashi kanchan  | 1.05                 | 21000.00   | 54                             |
| Paddy           | R. Sweta       | 160.0 (Unprocessed)  |            |                                |
|                 | Sabour Surbhit | 9.0 (Unprocessed)    |            |                                |
|                 | Sahbhagi       | 17.0 (Unprocessed)   |            |                                |
| Vegetable Pea   | Azad P-3       | 3.3                  | 49500.00   | Supplied to KVK Munger (3.0 q) |
| Wheat (16-17)   | HI 1563        |                      |            | Crop standing                  |
| Grand Total     |                |                      |            |                                |

#### Production of planting materials by the KVKs

| Crop                       | Variety | No. of planting materials | Value (Rs) | Provided to number of farmers |
|----------------------------|---------|---------------------------|------------|-------------------------------|
| <b>Vegetable seedlings</b> |         |                           |            |                               |
| Cauliflower                |         |                           |            |                               |
| Cabbage                    |         |                           |            |                               |
| Tomato                     |         |                           |            |                               |
| Brinjal                    | Pusa -6 | 13750                     | 5500       |                               |
| Chilli                     |         |                           |            |                               |
| Onion                      |         |                           |            |                               |
| Others                     |         |                           |            |                               |
| <b>Fruits</b>              |         |                           |            |                               |
| Mango                      |         |                           |            |                               |
| Guava                      |         |                           |            |                               |
| Lime                       |         |                           |            |                               |
| Papaya                     |         |                           |            |                               |
| Banana                     |         |                           |            |                               |
| Others                     |         |                           |            |                               |
| Ornamental plants          |         |                           |            |                               |
| Medicinal and Aromatic     |         |                           |            |                               |
| Plantation                 |         |                           |            |                               |
| Spices                     |         |                           |            |                               |

|                      |  |  |  |  |
|----------------------|--|--|--|--|
| Turmeric             |  |  |  |  |
| Tuber                |  |  |  |  |
| Elephant yams        |  |  |  |  |
| Fodder crop saplings |  |  |  |  |
| Forest Species       |  |  |  |  |
| Others, pl.specify   |  |  |  |  |
| Total                |  |  |  |  |

### Production of Bio-Products

| Name of product | Quantity | Value (Rs.) | No. of Farmers |
|-----------------|----------|-------------|----------------|
|                 | Kg       |             |                |
| Bio Fertilisers |          |             |                |
| Bio-pesticide   |          |             |                |
| Bio-fungicide   |          |             |                |
| Bio Agents      |          |             |                |
| Others          |          |             |                |
| Total           |          |             |                |

### Production of livestock materials:

| Particulars of Live stock | Name of the breed       | Number | Value (Rs.) | No. of Farmers |
|---------------------------|-------------------------|--------|-------------|----------------|
| Dairy animals             |                         |        |             |                |
| Cows                      |                         |        |             |                |
| Buffaloes                 |                         |        |             |                |
| Calves                    |                         |        |             |                |
| Poultry                   |                         |        |             |                |
| Broilers                  |                         |        |             |                |
| Layers                    |                         |        |             |                |
| Duals (broiler and layer) |                         |        |             |                |
| Japanese Quail            |                         |        |             |                |
| Turkey                    |                         |        |             |                |
| Emu                       |                         |        |             |                |
| Ducks                     |                         |        |             |                |
| Others (Pl. specify)      |                         |        |             |                |
| Piggery                   |                         |        |             |                |
| Piglet                    |                         |        |             |                |
| Others (Pl. specify)      |                         |        |             |                |
| Fisheries                 | Rohu, Katla, Grass carp |        |             | Pond Auctioned |
| Indian carp               |                         |        |             |                |
| Exotic carp               |                         |        |             |                |
| Others (Pl. specify)      |                         |        |             |                |
| Grand Total               |                         |        |             |                |

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

| Item                               | Title                                                                                                                                                                                                                                        | Authors name                                                                                                                                                                                                                                                                                                                                                                                                                               | Number                                                                                                                                 | Circulation |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Research paper                     | Effect of Indoxacarb against Tomato Fruit Borer ( <i>Helicoverpa armigera</i> Hub.) and Phytotoxicity to Tomato Plants.<br><br>Effects of dimethoate and neemarin insecticides on the biology of <i>Pieris brassicae</i> (Linn.) on cabbage. | Hasan W, Chhibber RC, Singh CP 2016.<br><br>Hadi Husain Khan, M. Shafiqansari, Wajid Hasan, Sumit Kumar Chauhan and Mohd Danish 2016.                                                                                                                                                                                                                                                                                                      | Adv Plants Agric Res 3(2): 00093. DOI: 10.15406/apar.2016.03.00093<br><br><i>Internat. J. Plant Protec.</i> , 9(1) Apr., 2016 :287-295 |             |
| Seminar/conference/symposia papers | Impact of Natural Resource Management Intervention under National Innovation in Climate Resilient Agriculture (NICRA) Project in Jehanabad district of Bihar: Some Reflections                                                               | Shobha Rani <sup>1</sup> , Jeetendra Kumar <sup>2</sup> , A.K. Singh <sup>3</sup> & R.K. Sohane <sup>4</sup><br><sup>1</sup> Senior Scientist & Head, KVK, Jehanabad, BAU, Sabour, Bhagalpur (Bihar)<br><sup>2</sup> Scientist (Agril. Engg.), KVK, Jehanabad, BAU, Sabour, Bhagalpur (Bihar)<br><sup>3</sup> Vice Chancellor, BAU, Sabour, Bhagalpur (Bihar)<br><sup>4</sup> Director Extension Education, BAU, Sabour, Bhagalpur (Bihar) | National conference on CCAP at BAU, Sabour on 6-8 April 2017                                                                           |             |
|                                    | Impact of Improved Crop Interventions Suitable for Climate Resilient Agriculture                                                                                                                                                             | Shobha Rani <sup>1</sup> , Jeetendra Kumar <sup>2</sup> , A.K. Singh <sup>3</sup> & R.K. Sohane <sup>4</sup><br><sup>1</sup> Senior Scientist & Head, KVK, Jehanabad, BAU, Sabour, Bhagalpur (Bihar)<br><sup>2</sup> Scientist (Agril. Engg.), KVK, Jehanabad, BAU, Sabour, Bhagalpur (Bihar)<br><sup>3</sup> Vice Chancellor, BAU, Sabour, Bhagalpur (Bihar)<br><sup>4</sup> Director Extension Education, BAU, Sabour, Bhagalpur (Bihar) | National conference on CCAP at BAU, Sabour on 6-8 April 2017                                                                           |             |
|                                    | Crop Diversification for Sustainable Agriculture in Changing Climate Scenario: An Experience under NICRA Project                                                                                                                             | Shobha Rani <sup>1</sup> , Jeetendra Kumar <sup>2</sup> , R.K. Sohane <sup>3</sup> & F.H. Rahman <sup>4</sup>                                                                                                                                                                                                                                                                                                                              | Conference at Gwalior                                                                                                                  |             |
| Books                              |                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                        |             |
| Bulletins                          | a. Arhar ke kheti ki package pranali                                                                                                                                                                                                         | Dr. Shobha Rani, PC, & Sri Ajit Kumar Paswan, SMS (Agro.)                                                                                                                                                                                                                                                                                                                                                                                  | 1000                                                                                                                                   | 1000        |
|                                    | b. Tamatar ke prasanskrit                                                                                                                                                                                                                    | Dr. Shobha Rani, PC, KVK, Jehanabad                                                                                                                                                                                                                                                                                                                                                                                                        | 1000                                                                                                                                   | 1000        |

|                                 |                                                                                      |                                                                                                 |                                                                                                                                |      |
|---------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|
|                                 | utpadan                                                                              |                                                                                                 |                                                                                                                                |      |
|                                 | c. Sabjiyon ke poudhshala prabandhan                                                 | Dr. Shobha Rani, PC & Dr. Wajid Hasan, SMS (Ento.)                                              | 1000                                                                                                                           | 1000 |
|                                 | d. Pashuon main thanaila rog ke karan avom bachao                                    | Dr. Shobha Rani, PC & Dr. Dinesh Mahto, SMS (Ani. Sc.)                                          | 1000                                                                                                                           | 1000 |
|                                 | e. Dhaan ki sidhi buaee-Jalwau privartan ke alok main aaj ki jarurat (NICRA Project) | Dr. Shobha Rani, PC & Er. Jeetendra Kumar SMS (Agril. Engg.)                                    | 1000                                                                                                                           | 1000 |
|                                 | f. Azola utpadan taknik                                                              | Dr. Shobha Rani, PC & Dr. Dinesh Mahto, SMS (Ani. Sc.)                                          | 1000                                                                                                                           | 1000 |
|                                 | g. Kharif mausam main makka ki vaigyanic kheti                                       | Dr. Shobha Rani, PC & Sri Ajit Kr. Paswan, SMS (Agro.)                                          | 1000                                                                                                                           | 1000 |
|                                 | h. Sinchai ke liye uchit pumping set kaise chune?                                    | Dr. Shobha Rani, PC & Er. Jeetendra Kumar SMS (Agril. Engg.)                                    | 1000                                                                                                                           | 1000 |
|                                 | i. Pashuon main hare chare ka upyog avom prabandhan                                  | Dr. Shobha Rani, PC & Dr. Dinesh Mahto, SMS (Ani. Sc.)                                          | 1000                                                                                                                           | 1000 |
|                                 | j. Murgi Palan                                                                       | Dr. Dinesh Mahto, SMS (Ani. Sc.) & Dr. Shobha Rani, PC                                          | 500                                                                                                                            | 500  |
|                                 | k. Samekit Krishi Pranali-Atirikt aay ka mahatvapurna shrota                         | Dr. Shobha Rani, PC, Er. Jeetendra Kumar SMS (Agril. Engg.) & Dr. Dinesh Mahto, SMS (Ani. Sc.)  | 500                                                                                                                            | 500  |
| News letter                     | Krishak Samachar (Quarterly), April-June 2016, July-Sept. 2016, Jan-March 2017       | Dr. Shobha Rani, Er. Jeetendra Kumar, Dr. Dinesh Mahto, Dr. Wajid Hasan & Sri Ajit Kumar Paswan | 3000                                                                                                                           | 3000 |
| Popular Articles                | pus dks cpk;s Qyh Nsnd ls<br>vjgj dh lqj{kk djsa dhM+ksa ls                          | fdj.k dqekjh ,oa okftn glu 2016<br>okftn glu ,oa fdj.k dqekjh 2016.                             | <i>N"kd lans'k-5(2):11-12.</i><br><i>N"kd lans'k-5(2):18-19.</i>                                                               |      |
| Book Chapter                    | Samekit keet prabandhan apnayen Dalhan utpadan badhaien.                             | Kiran Kumari and Wajid Hasan.2016.                                                              | In 'Dalhan Utpadan, Samasiyaien Prabandhan evam Ranneeti' published by Bihar Agriculture Univerty, Sabour, Bhagalpur, P 56-62. |      |
| Extension Pamphlets/ literature |                                                                                      |                                                                                                 |                                                                                                                                |      |

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |  |  |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Technical reports                   | MPR (English), MPR (Hindi), QPR (April-June 2016, July-Sept. 2016, Oct.- Dec. 2016, Jan.- March 2017)<br>Annual Progress Report (2016-17) of KVK<br><ul style="list-style-type: none"> <li>Annual Action Plan (2017-18) of KVK</li> <li>Annual Report (2016-17) of NICRA</li> <li>Annual Action Plan (2017-18) of NICRA</li> <li>Extension Council Report (April- Sept. 2016)</li> </ul> NICRA QPR (April-June 2016, July-Sept. 2016, Oct.- Dec. 2016, Jan.- March 2017)<br><ul style="list-style-type: none"> <li>Extension Council Report (Oct. 16- Mar. 2017)</li> </ul> | Dr. Shobha Rani <sup>1</sup> , Er. J. Kumar <sup>2</sup><br>Programme Coordinator, KVK, Jehanabad, B.A.U., Sabour 2 Scientist (Agril. Engg.), KVK Jehanabad |  |  |
| Electronic Publication (CD/DVD etc) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |  |  |
| TOTAL                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |  |  |

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

**(B) Details of HRD programmes undergone by KVK personnel:**

| S. No. | Name of programme                               | Name of course                                                                                   | Name of KVK personnel and designation                                        | Date and Duration        | Organized by                 |
|--------|-------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------|------------------------------|
| 1.     | Workshop                                        | Adoption of lentil varieties                                                                     | Sri Ajit Kumar Paswan, SMS (Agronomy)                                        | 11.4.2016                | ICAR-RCER, Patna             |
| 2.     | review meeting cum zonal workshop               | Presented annual progress report (2015-16) as well as annual action plan (2016-17).              | Er. Jeetendra Kumar, SMS (Agril. Engg.)                                      | 21 to 22 April 2016      | ATARI, zone-II, Kolkata      |
| 3.     | State level workshop                            | Presented the Annual Report 2015-16 & Action Plan 2016-17 for KVK, Jehanabad on dated 03.05.2016 | Dr. Shobha Rani, Programme Co-ordinator                                      | 03.05.2016               | ATARI, zone-II, Kolkata      |
| 4.     | State Level Kharif Workshop                     | State Level Kharif Workshop                                                                      | Dr. Shobha Rani, Programme Co-ordinator                                      | 07.05.2016               | RAU, Pusa, Samstipur (Bihar) |
| 5.     | Seed Review Meeting & Extension Council Meeting | Seed Review Meeting & Extension Council Meeting                                                  | Dr. Shobha Rani, Programme Co-ordinator & Sri Ajit Kumar Paswan, SMS (Agro.) | 10-05.2016 & 11.05.2016. | BAU, Sabour, Bhagalpur       |
| 6.     | Training                                        | training programme on DSR                                                                        | Ajit Kumar Paswan, SMS (Agro.)                                               | 28.05.2016               | BAU, Sabour, Bhagalpur       |

|    |                                                  |                                                     |                                                                                                                                  |                            |                         |
|----|--------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------|
| 7. | Meeting                                          | contingency crop plan                               | Dr. Shobha Rani, Programme Co-ordinator                                                                                          | 30.05.2016                 | ICAR-RCER, Patna        |
| 8  | Training Programme                               | Development of KVK Website                          | Sri Manoj Kumar, Programme Assistant (Comp.)                                                                                     | 24-29 June 2016            | BAU, Sabour, Bhagalpur  |
| 9  | Workshop                                         | skill development                                   | Dr. Shobha Rani, Programme Co-ordinator                                                                                          | 19.07.2016                 | BAMETI, Patna           |
| 10 | National Seminar                                 | Performance of Cluster Demonstration on Rabi pulse  | Dr. Shobha Rani, Programme Co-ordinator                                                                                          | On 5-6 August 2016         | BAU, Sabour             |
| 11 | Training Programme                               | Women Empowerment & Gender Mainstreaming            | Dr. Shobha Rani, Programme Co-ordinator                                                                                          | 23-25 Aug. 2016            | BAU, Sabour             |
| 12 | Meeting                                          | KVK review meeting and seed review meeting          | Dr. Shobha Rani, Programme Co-ordinator                                                                                          | 14.09.2016                 | BAU, Sabour             |
| 13 | Training Programme                               | statistical method for data analysis in agriculture | Er. Jeetendra Kumar, SMS (Agril. Engg.)                                                                                          | 30.08.2016 to 03.09.2016   | BAU, Sabour             |
| 14 | National level annual workshop                   | National level annual workshop                      | Dr. Shobha Rani, Programme Co-ordinator                                                                                          | 9 <sup>th</sup> Dec. 2016  | NASC campus, New Delhi  |
| 15 | 6 <sup>th</sup> review workshop of NICRA project | 6 <sup>th</sup> review workshop of NICRA project    | Dr. Shobha Rani, Programme Co-ordinator                                                                                          | 15-17 Dec. 2016            | Kalimpong, Darjeeling   |
| 16 | CFLD review meeting and seed review meeting      | CFLD review meeting and seed review meeting         | Ajit Kumar Paswan, SMS (Agro.)                                                                                                   | 21 <sup>st</sup> Dec. 2016 | BAU, Sabour             |
| 17 | Workshop                                         | skill development                                   | Dr. Shobha Rani, Programme Co-ordinator, Dr. Dinesh mahto, Scientist (Ani. Sc.) and Sri Manoj Kumar, Programme Assistant (Comp.) | 05.01-2017                 | NASC complex, New Delhi |
| 18 | Training Programme                               | skill development organized under ASCI norms        | Dr. Shobha Rani, Programme Co-ordinator, Dr. Dinesh mahto, Scientist (Ani. Sc.) and Sri Manoj Kumar, Programme Assistant (Comp.) | 06-08 Jan. 2017            | GBPUAT, Pantnagar       |
| 19 | Training                                         | Extension Management                                | Dr. Shobha Rani, Programme Co-ordinator,                                                                                         |                            |                         |
| 20 | Training                                         | Extension Management                                | Dr. Dinesh mahto, Scientist (Ani. Sc.), Sri Kundan Kumar, Prog. Assit., Sri Ramalakhan Thakur, Farm Manager                      | 02-06 March 2017           | BAU, Sabour             |



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

## 1. Success story

### Braj Kishore Sharma -Dairy based IFS System

**Name and address of the farmer:-**Braj Kishore SharmaS/o Vijay Sharma,  
Vill- Rampur Charui,  
Block- Modanganj, Distt.- Jehanabad  
Contact no.: 9931459486

**Age:** 46 yr

**Holding size (in acre):** 10

**Educational qualification:** Graduation (Economics)

**Experience in farming:** 15 Years

#### Brief description of the farm/enterprise:

Mr. Braj Kishore Sharma was a traditional farmer and cultivates paddy, wheat, onion etc as well as dairy, fish farming on small scale. He came in contact with KVK, Jehanabad and started a dairy farm with 20 cows, automatic rice mill, vermicompost production as well as Gobargas plant and plantation of fruit plants for diversified income from his agricultural land.



Quote of the farmer: This IFS model supports me in regular smart income round the year.

#### Economics of the farm:

| Enterprise   | Area (Acre)/No. | Cost of Production *(per unit) | Return (Rs. Per unit) | Net Income (Rs. per unit) |
|--------------|-----------------|--------------------------------|-----------------------|---------------------------|
| Crop         | 7.0             | 456230                         | 1120130               | 663900                    |
| Fish         | 0.5             | 50000                          | 130200                | 80200                     |
| Dairy        | 1.5             | 580000                         | 1230000               | 650000                    |
| Vermicompost | 0.1             | 20000                          | 74000                 | 50000                     |
| Rice mill    | 0.9             | 150000                         | 2800000               | 1300000                   |

\*includes cost of input, labour and others including marketing and transport of the products.

Income level before adopting such farming:

| Enterprise | Area (Acre)/No. | Cost of Production | Return (Rs. Per unit) | Net Income |
|------------|-----------------|--------------------|-----------------------|------------|
| Crop       | 7               | 456230             | 1120130               | 663900     |
| Fish       | 0.5             | 50000              | 130200                | 80200      |
|            |                 |                    |                       |            |

Suitable action photographs



## 2. Success story

### Vikas Kumar-Kitchen gardening

**Name and address of the farmer:-**Vikas Kumar

S/o Late Yogendra Sharma, Vill- Sakrorha,

Block- Modanganj, Distt.- Jehanabad

Contact no.: 9006777698

**Age:** .22 yr

**Holding size (in acre):** 2 acre

**Educational qualification:** Matric

**Experience in farming:** 6 Years



**Brief description of the farm/enterprise:** Mr. Vikas Kumar grows seasonal vegetable crops in small plots available near his house in form of Nutrition garden without using any chemical fertilizers. He grows different kind of vegetables according to season. The vegetable like cabbage, cauliflower, brinjal, tomato, leafy vegetables, turmeric, elephant foot yam etc are most common in his kitchen garden. From his kitchen garden he is able to get organically produced fresh vegetables round the year which are full of nutrition. Growing vegetables in such a manner has been found to be much economical when compared with buying from market. This fulfils the nutritional requirement of family members. The other benefit of kitchen gardening is that no extra land is required for it.

**Quote of the farmer:** Vikas Kumar says that inspite of having very limited land holding only by growing seasonal vegetables as well as low water requiring food stuffs like turmaric and elephant footyam every year he is able to earn some income by selling in market besides fulfilling the house hold food consumption. He gets fresh, cheap and nutrient rich vegetables by his kitchen garden.

#### **Economics of the Technology(Kitchen Garden):**

| Enterprise                                                                                               | Area (Acre)/No. | Cost of Production *(per unit) | Return (Rs. Per unit) | Net Income (Rs. per unit)           |
|----------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|-----------------------|-------------------------------------|
| Kitchen Garden(cabbage, cauliflower, brinjal, tomato, leafy vegetables, turmeric, elephant foot yam etc) | 0.125           | 1000                           | 2500                  | 1500 besides house hold consumption |
|                                                                                                          |                 |                                |                       |                                     |



\*includes cost of input, labour and others including marketing and transport of the products.  
Income level before adopting such farming: Land surrounding the house used to remain fallow  
Suitable action photographs



### 3. Success story Yogendra Sharma- A Progressive Pulse Farmer

**Name and address of the farmer:-**Yogendra Sharma

Vill- Gandhar,

Block- Modanganj, Distt.- Jehanabad

Contact no.: 9973592613

**Age:** .61 yrs

**Holding size (in acre):** 6 acre

**Educational qualification:** B.Sc

**Experience in farming:** 18 Years

#### **Brief description of the farm/enterprise:**

Yogendra Sharma used to grow wheat crop in Rabi and get 29.5 q/ha yield and get gross income of Rs. 44988/- and net income of Rs.17488 /- but when chickpea grown in place of wheat he got yield 16q/ha with gross income Rs. 128000 and net income of Rs.108525. He also took local variety of chickpea which yielded 11.20 q/ha and gross income Rs. 61600 and net income Rs.44520 per hectare.

Quote of the farmer: Farmer is ready to increase the area under chickpea in Rabi season



**Economics of the farm:**

| Enterprise         | Area (Acre)/No. | Cost of Production *(per unit) | Return (Rs. Per unit) | Net Income (Rs. per unit) |
|--------------------|-----------------|--------------------------------|-----------------------|---------------------------|
| Chickpea(GNG-1581) | 1 ha            | 19475                          | 128000                | 108525                    |

\*includes cost of input, labour and others including marketing and transport of the products.

Income level before adopting such farming:

| Enterprise               | Area (Acre)/No. | Cost of Production | Return (Rs. Per unit) | Net Income |
|--------------------------|-----------------|--------------------|-----------------------|------------|
| Chickpea (Local variety) | 1.0 ha          | 17080              | 61600                 | 44520      |

Suitable action photographs



#### 4. Success story

##### Devendra Kumar- Use of Zero Tillage Technology

**Name and address of the farmer:-**Devendra Kumar ,  
Vill- Sakrorha, Block- Modanganj, Distt.- Jehanabad  
Contact no.: 9199195604

**Age:** 45 yr

**Holding size (in acre):** 18

**Educational qualification:** B.A (Pshchology)

**Experience in farming:** 20 Years

##### **Brief description of the farm/enterprise:**

Mr. Devendra Kumar is a progressive farmer. Rice-wheat is major cropping system in his village. During rabi season, wheat is prominent crop. He sow wheat after 3-4 ploughing followed by planking and broadcast seed and fertilizer, which causes delay in wheat sowing and involved high cost of cultivation also. He came in contact with Krishi





Vigyan Kendra,, Jehanabad where he got technical training by Scientist (Agril. Engg.) on use of improved agricultural implements and machineries and he used 11 rows zero till seed cum ferti. drill for wheat sowing. Zero tillage technology saved Rs. 3000/- per ha in cost of ploughing, labour as well as irrigation water. This technology advanced wheat sowing by 8-10 days and caused a yield increase of 15-18 % as well less weed infestation.

Quote of the farmer: This technology lowered cost of cultivation, takes less water in irrigation and gave better yield.

#### Economics of the farm:

| Crop/Livestock/<br>Fish/Enterprise | Area<br>(Acre)/No. | Cost of Production *(per<br>unit) | Return<br>(Rs. Per unit) | Net Income (Rs.<br>per unit) |
|------------------------------------|--------------------|-----------------------------------|--------------------------|------------------------------|
| Paddy                              | 14                 | 23500                             | 54900                    | 31490                        |
| Wheat (ZTSFD)                      | 10                 | 24000                             | 64600                    | 40600                        |
| Chickpea                           | 2                  | 22500                             | 154000                   | 131500                       |
| Lentil                             | 2                  | 16500                             | 96000                    | 79500                        |
| Mustard/rapeseed                   | 2                  | 16000                             | 48000                    | 32000                        |

\*includes cost of input, labour and others including marketing and transport of the products.

Income level before adopting such farming:

| Enterprise                  | Area<br>(Acre)/No | Cost of<br>Production*(per unit) | Return<br>(Rs. Per unit) | Net Income*(per<br>unit) |
|-----------------------------|-------------------|----------------------------------|--------------------------|--------------------------|
| Wheat (Broadcasting method) | 10                | 27000                            | 54400                    | 27400                    |

#### Suitable action photographs



3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year: **Training, Lecture, Discussion and demonstration methods.**

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

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

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

A. PRA.

B. Survey using (Questionnaires & Schedule)

C. Meeting-Discussion.

D. Observation (Participant & Non Participant observation)

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

| Sl. No | Name of the Equipment     | Qty. |
|--------|---------------------------|------|
| 1.     | Mridaparikshak a mini lab | 01   |

3.11.b. Details of samples analyzed so far :

| Details                           | No. of Samples | No. of Farmers | No. of Villages | Amount realized |
|-----------------------------------|----------------|----------------|-----------------|-----------------|
| N, P, K, O.C, PH, EC, Fe, Zn, B,S | 387            | 858            | 51              | -               |
| Total                             |                |                |                 |                 |

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

| No of training programme | No of demonstrations | No of plant material produced | Visit by the farmers | Visit by the officials |
|--------------------------|----------------------|-------------------------------|----------------------|------------------------|
|                          |                      |                               |                      |                        |

3.13 Technology week celebration

| Type of activities | No. of activities | Number of participants | Related crop/livestock technology |
|--------------------|-------------------|------------------------|-----------------------------------|
|                    |                   |                        |                                   |

3.14. RAW programme - is KVK involved?

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

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

| Date       | Name of the person                                                                                                                                                                                                                          | Purpose of visit                                                      |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 25.02.2017 | Sri Arbind Kumar Singh, PD, ATMA, Jehanabad, Sri, Santosh Kumar Singh, Krishi samanbayak, Jehanabad, Smt. Suchitra Kumari, JEEVIKA, Jehanabad, Sri Binod Sharma, Kisan salahkar, Modanganj, Sri DFevendra Kumar, Kisan salahkars, Jehanabad | Rabi Kisan Sammellan                                                  |
| 02.01.2017 | Smt Abha Rani, Chairman Jila Parishad, Jehanabad, Smt Sita Devi, Jila Parishad, Modanganj                                                                                                                                                   | Skill development training Inauguration (Bee keepers)                 |
| 06.02.2017 | Jila Parishad, Jehanabad, Mukhiya, Modanganj                                                                                                                                                                                                | Skill development training Inauguration (Broiler Poultry Farm Worker) |
| 08.09.2016 | P.P. Pal, Principal Scientist, ATARI-II, Kolkata, Dr. R.N. Singh, ADEE, BAU, Sabour, Dr. R.N. Singh, RD, ARI, Patna, DAO, Jehanabad                                                                                                         | SAC Meeting                                                           |
| 06.04.2016 | Dr. Arun Kumar, Hon'ble M.P., Jehanabad, PD, ATMA, Jehanabad                                                                                                                                                                                | Pradhan mantri Fasal Bima Yojna                                       |

#### 4.0 IMPACT

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

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) |                  |
|-----------------------------------------------|---------------------|---------------|------------------------|------------------|
|                                               |                     |               | Before (Rs./Unit)      | After (Rs./Unit) |
| Beekeeping                                    | 100                 | 28            | 38000                  | 58000            |
| Zero tillage                                  | 90                  | 09            | 48000                  | 54000            |
| Poultry farming                               | 300                 | 27            | 40000                  | 65000            |
| Mushroom cultivation                          | 70                  | 22            | -                      | 35000            |
| Goatry                                        | 97                  | 10            | 550/Month              | 2400/Month       |
| Dairy                                         | 422                 | 35            | 10000/Month            | 42000/Month      |
| Piggery                                       | 63                  | 12            | 15000/month            | 20000/month      |
| Fishery                                       | 19                  | 02            | -                      | -                |

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

##### 4.2 Cases of large scale adoption

(Please furnish detailed information for each case)

| Horizontal spread of technologies |                   |
|-----------------------------------|-------------------|
| Technology                        | Horizontal spread |
| Backyard Poultry                  | 25                |
| Dairy                             | 35                |
| Value addition in paddy straw     | 42                |
| Mushroom Production               | 15                |
| Zero tillage                      | 14                |

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

| Sl. No. | Technology                                                                                                                        | Adoption rate |
|---------|-----------------------------------------------------------------------------------------------------------------------------------|---------------|
|         |                                                                                                                                   |               |
| 1       | Single seedling transplanting of paddy (%)                                                                                        | 76%           |
| 2       | Vermicompost production (no.)                                                                                                     | 88%           |
| 3       | Use of improved farm implements (%)<br>(ex :Rotavator, combined harvester )                                                       | 68%           |
| 4       | Income generating activities<br>Like vermicompost production, Rice/rice flakes selling, poultry, dairying, goatry, processing (%) | 46%           |
| 5       | Participation of Farm women in agril. programme                                                                                   | 75%           |
| 6       | Seed replacement rate (%) in the adopted villages (paddy, wheat, rai, gram, lentil, moong etc.)                                   | 90%           |
| 7       | Participation of NGO's in KVK-activities (no.)                                                                                    | 9             |
| 8       | Area under ZTT (ha)                                                                                                               | 680           |
| 9       | Bee Keeping (%)                                                                                                                   | 28%           |
| 10      | Mushroom Production                                                                                                               | 29            |

## 4.4 Details of innovations recorded by the KVK

| Thematic area                   | Disease Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the Innovation          | Use of chopped raw onion for the control of external and internal parasites in cattle                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Details of Innovator            | Name of the farmer: Kaushal Kumar<br>Village and Block: Sakroha, Modanganj<br>Mob no. : 8409351923                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Back ground of innovation       | Cattle generally suffer by parasite resulting into low productivity. The population of parasites (Ticks, mites etc.) is maximum in winter season and in extreme summer season with higher humidity.                                                                                                                                                                                                                                                                                                                                            |
| Technology details              | Chopped raw onion has been used to feed cattle with a little quantity (200- 250 gms) twice at the interval of 4 weeks and then after six months for control of external and internal parasites like ticks, mytes, leach etc. It is domestic method and since onion is fed in small amount so, it is harmless for the cattle and good for milk productivity and general health of the cattle. It is an economic method as the money which could be spent on the purchase of medicine for the control of external & internal parasites is saved. |
| Practical utility of innovation | This innovation is found to be beneficial by other dairy farmers of the region and they are also following this practice. About 30-35 percent, dairy farmers have adopted this practice as they find it more economical & easier.                                                                                                                                                                                                                                                                                                              |

| Thematic area | Storage loss minimization |
|---------------|---------------------------|
|---------------|---------------------------|



|                                 |                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the Innovation          | Storage of seeds and grains in cushion constructed of wheat straw and Mahua.                                                                                                                                                                                                                                |
| Details of Innovator            | Name of the farmer: Yogendra Sharma<br>Village and Block: Gandhar, Modanganj<br>Mob no. : 9973592613                                                                                                                                                                                                        |
| Back ground of innovation       | Generally 20-40 % storage loss occurs in grain due to improper storage methods                                                                                                                                                                                                                              |
| Technology details              | Seeds/ grains packed into gunny bags and stacked sandwiched & covered with wheat straw layer by layer. In between layers, Mahua flowers are kept as storage agent as a result there is no infestation of storage insects and diseases. Stored materials remain fresh and untouched with diseases and pests. |
| Practical utility of innovation | Since, there is no use of chemical pesticides for storage So, it is hygienic & safe method. It will aid to organic farming,eco friendly and good environment. About 50 percent farmers have adopted this practice as they find it more economical & easier.                                                 |

#### 4.5 Details of entrepreneurship development

| <b>Entrepreneurship development :I</b>                                                                                                                                                       |                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the enterprise                                                                                                                                                                       | Beekeeping                                                                                                                                                                            |
| Name & complete address of the entrepreneur                                                                                                                                                  | Mr. Abhay Sharma, Village- Mananpur, Block- Modanganj, Distt.- Jehanabad                                                                                                              |
| Intervention of KVK with quantitative data support:                                                                                                                                          | He got training from KVK Jehanabad & started beekeeping since September 2016 with 10 bee box. He extracted 150 kg honey in a short duration of 8 months.                              |
| Time line of the entrepreneurship development                                                                                                                                                | Since 1 year he is doing Beekeeping                                                                                                                                                   |
| Technical Components of the Enterprise                                                                                                                                                       | Bee box, honey extractor machine, rani cage, knife, brush                                                                                                                             |
| Status of entrepreneur before and after the enterprise                                                                                                                                       | His annual Income was Rs.20000/year before starting beekeeping now his annual net income is Rs.40000.                                                                                 |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise): | Working condition.<br>a. Sufficient flower fauna available in the locality during 8 months in a year.<br>b. Related work done by his family members.<br>c. Honey easily sale in local |
| Horizontal spread of enterprise                                                                                                                                                              | He shares his knowledge and experience with other farmers.                                                                                                                            |

| <b>Entrepreneurship development : II</b>            |                                                                                                                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Name of the enterprise                              | Dairy –cum- vermicompost cum-Rice meal                                                                            |
| Name & complete address of the entrepreneur         | Braj Kishore SharmaS/o Vijay Sharma, Vill- Rampur Charui, Block- Modanganj, Distt.- Jehanabad, Mb. No. 9931459486 |
| Intervention of KVK with quantitative data support: | KVK, Jehanabad, Training of Dairy farming , back yard layer poultry farming                                       |
| Time line of the entrepreneurship development       | 10 years                                                                                                          |

|                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical Components of the Enterprise                                                                                                                                                        | Head to head and tail to tail system dairy farming                                                                                                                                                                                                                                                            |
| Status of entrepreneur before and after the enterprise                                                                                                                                        | His annual income was Rs. 744,100/ year before starting crop and fish farming, now his annual net income is Rs. 2,744,100/-                                                                                                                                                                                   |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. ( Economic viability of the enterprise): | <ul style="list-style-type: none"> <li>• Sufficient locally available feed for cattle</li> <li>• Related work done by his family members</li> <li>• Milk easily sale in COMFED dairy &amp; local near town of Jehanabad</li> <li>• vermicompost, Gobargas plant and</li> <li>• Automatic rice mill</li> </ul> |
| Horizontal spread of enterprise                                                                                                                                                               |                                                                                                                                                                                                                                                                                                               |

4.6 Any other initiative taken by the KVK

## 5.0 LINKAGES

5.1 Functional linkage with different organizations

| Name of organization            | Nature of linkage                                                               |
|---------------------------------|---------------------------------------------------------------------------------|
| DAO                             | Diagnostic survey, joint implementation and training                            |
| ICARDA                          | Demonstration, Training, Seed Production.                                       |
| DHO                             | Participation in meetings and training.                                         |
| ATMA                            | Training, Demonstration and Refinement of technology (OFT)                      |
| Bank                            | Coordination for Farmers club and SHG formation & functioning.                  |
| COMFED                          | Marketing & Training.                                                           |
| DRDA                            | Training and Demonstration.                                                     |
| ICAR-RCER, Patna                | Animal health camp along with vaccination                                       |
| Bihar Veterinary College, Patna | Infertility camp                                                                |
| Magadh Dairy, Gaya              | Animal health camp along with vaccination, Training of AI workers, Pashu Mela   |
| NABARD                          | Farmer's club formation                                                         |
| BAU, Sabour                     | Training, workshop, administration, financial, kisan mela, seed production etc. |

5.2. List of special programmes undertaken during 2016-17 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

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

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

| Total                                                     |                                                                                     |                           |                                                    |              |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------|--------------|
| Name of the programme/scheme                              | Purpose of programme                                                                | Date/ Month of initiation | Funding agency                                     | Amount (Rs.) |
| Pradhan Mantri Fasal Bima Yojna                           | Training cum awareness programme about PMFBY                                        | 06.04.2016                | ICAR                                               |              |
| Kharif Kisan Sammelan                                     | Training cum awareness programme                                                    | 19.05.2016                | ICAR                                               |              |
| World Soil Health Day                                     | Training cum awareness programme                                                    | 05.12.2016                | ICAR                                               |              |
| Training on Neera Production                              | Taad ke ped par adharit udhyog ki sthapna hetu jagrukta sah prqashikshan karyakarma | 09.12.2016                | BAC, Sabour                                        |              |
| NIFTD Programme (Demo)                                    | Fodder grass production                                                             | 2014                      | IGFRI, Jhansi                                      |              |
| Rabi Kisan Sammelan                                       | Training cum awareness programme                                                    | 25.02.2017                | ICAR                                               |              |
| Jai kisan Jai Vigyan Diwas                                | awareness programme                                                                 | 27.12.2016                | ICAR                                               |              |
| Azadi 70 programme                                        | 70 years of independence                                                            | 23.08.2016                | ICAR                                               |              |
| Yoga diwas                                                | Training cum awareness programme                                                    | 21.06.2016                | ICAR                                               |              |
| International Women day                                   | Training cum awareness programme                                                    | 07.03.2017                | JEEVIKA, Jehanabad                                 |              |
| Bihar Diwas                                               | Stall                                                                               | 22.03.2016                | District Agriculture Department, Jehanabad & Patna |              |
| ASCI Skill development Traing on Beekeepers               | 200 hr of training on Skill Development to the farmers                              | 02.02.2017 to 08.03.2017  | ICAR                                               |              |
| ASCI Skill development Training on Poultry farm worker    | 200 hr of training on Skill Development to the farmers                              | 06.02.2017 to 30.03.2017  | ICAR                                               |              |
| Krishak Vaigyanik Varta                                   | Training & advisory                                                                 | 13.06.2016                | District Agriculture Department, Jehanabad & Patna |              |
| Animal Health Checkup                                     | Health Checkup                                                                      | 19-20 Sept 2016           | ICAR-RCER, Patna & COMFED                          |              |
| Participation in Human Chain formed for Liquor free Bihar | Compaign for Liquor free Bihar                                                      | 21.01.2017                | Bihar Govt.                                        |              |
| SD card distribution                                      | Distribution of 100 SD card to farmers                                              | 22.09.2016                | BAU, Sabour                                        |              |
| Parthenium Awareness programme                            | Training cum awareness programme                                                    | 16-22 August 2016         | ICAR                                               |              |

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

| Sl. No. | Name of demo Unit  | Year of estt. | Area (Sq. mt) | Details of production |                 |       | Amount (Rs.)   |              | Remarks |
|---------|--------------------|---------------|---------------|-----------------------|-----------------|-------|----------------|--------------|---------|
|         |                    |               |               | Variety/breed         | Produce         | Qty.  | Cost of inputs | Gross income |         |
| 1.      | Mushroom Unit      | 2013          | 75            | Oyster                | Oyster Mushroom | 12 kg | -              | 1200         |         |
| 2.      | Vermi Compost Unit | 2014          |               | Worm                  | Vermi compost   | 15    | -              | -            |         |
|         | Total              |               |               |                       |                 |       |                |              |         |

## 6.2 Performance of instructional farm (Crops)

| Name Of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production |                 |         | Amount (Rs.)   |              | Remarks |
|------------------|----------------|-----------------|-----------|-----------------------|-----------------|---------|----------------|--------------|---------|
|                  |                |                 |           | Variety               | Type of Produce | Qty.(q) | Cost of inputs | Gross income |         |
|                  |                |                 |           |                       |                 |         |                |              |         |

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

| Sl. No. | Name of the Product | Qty (Kg) | Amount (Rs.)                |              | Remarks           |
|---------|---------------------|----------|-----------------------------|--------------|-------------------|
|         |                     |          | Cost of inputs              | Gross income |                   |
| 1.      | Vermi Compost       | 1500     | Used agro-waste of KVK Farm |              | Used in KVK farm. |
|         |                     |          |                             |              |                   |

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

| Sl. No | Name of the animal / bird / aquatics | Details of production |                 |      | Amount (Rs.)   |              | Remarks |
|--------|--------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|
|        |                                      | Breed                 | Type of Produce | Qty. | Cost of inputs | Gross income |         |
| 1.     |                                      |                       |                 |      |                |              |         |
| 2.     |                                      |                       |                 |      |                |              |         |
| 3.     |                                      |                       |                 |      |                |              |         |

## 6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

| Months  | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|---------|------------------------|----------------------------|--------------------------------|
|         |                        |                            |                                |
|         |                        |                            |                                |
|         |                        |                            |                                |
| Total : |                        |                            |                                |

(For whole of the year)

## 6.6 Utilization of staff quarters

Whether staff quarters has been completed: yes

No. of staff quarters: 6

Date of completion: 2014

Occupancy details:

| Months             | Q I | QII | Q III | QIV | Q V | QVI |
|--------------------|-----|-----|-------|-----|-----|-----|
| April 2014 onwards | ✓   | ✓   | ✓     | ✓   |     |     |
|                    |     |     |       |     |     |     |
|                    |     |     |       |     |     |     |
|                    |     |     |       |     |     |     |

## 7. FINANCIAL PERFORMANCE

### 7.1 Details of KVK Bank accounts

| Bank account | Name of the bank | Location        | Account Number   |
|--------------|------------------|-----------------|------------------|
| Saving A/C   | PNB (Main)       | Kako, jehanabad | 231000100338968  |
| Saving A/C   | SBI (Main)       | BVCC, Patna     | 11435538045      |
| Saving A/C   | PNB (R/F)        | Kako, Jehanabad | 2321000100338977 |
| Saving A/C   | SBI (R/F)        | BVCC, Patna     | 30777637395      |

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

| Item    | Released by ICAR |       | Expenditure |       | Unspent balance as on - |
|---------|------------------|-------|-------------|-------|-------------------------|
|         | Kharif           | Rabi  | Kharif      | Rabi  |                         |
| Mustard | -                | 90000 | -           | 89610 | 390.00                  |
| Sesame  |                  | 30000 | -           | 27500 | 2500.00                 |

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

| Item       | Released by ICAR |           | Expenditure |           | Unspent balance as on 1 <sup>st</sup> April 2013 |
|------------|------------------|-----------|-------------|-----------|--------------------------------------------------|
|            | Kharif           | Rabi      | Kharif      | Rabi      |                                                  |
| Lentil     | -                | 150000.00 | -           | 14862.00  | 138.00                                           |
| Chickpea   | -                | 150000.00 | -           | 149812.00 | 188.00                                           |
| Fieldpea   | -                | 150000.00 | -           | 130886.00 | 19114.00                                         |
| Green Gram | -                | 75000.00  | -           | 38250.00  | 36750.00                                         |

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

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

## 7.5 Utilization of KVK funds during the year 2016-17 (Not audited)

| S. No.                                | Particulars                  | Sanctioned        | Released          | Expenditure    |
|---------------------------------------|------------------------------|-------------------|-------------------|----------------|
| <b>A. Recurring Contingencies</b>     |                              |                   |                   |                |
| 1                                     | Pay & Allowances             | 7330000.00        | 7330000.00        | 7137725.00     |
| 2                                     | Traveling allowances         | 150000.00         | 150000.00         | 150000.00      |
| 3                                     | HRD                          | 50000.00          | 50000.00          | 13500.00       |
| 4                                     | Contingencies                |                   |                   |                |
| A                                     | Stationery & POL, OE, repair | 520000.00         | 520000.00         | 520000.00      |
| B                                     | Training                     | 240000.00         | 240000.00         | 240000.00      |
| C                                     | FLD                          | 160000.00         | 160000.00         | 160000.00      |
| D                                     | OFT                          | 80000.00          | 80000.00          | 80000.00       |
| E                                     | Building maintenance         | 38000.00          | 38000.00          | 24790.00       |
| F                                     | Contractual Pay              | 170000.00         | 170000.00         | 170000.00      |
| G                                     |                              |                   |                   |                |
| H                                     |                              |                   |                   |                |
| I                                     |                              |                   |                   |                |
| J                                     |                              |                   |                   |                |
| <b>TOTAL (A)</b>                      |                              | <b>8738000.00</b> | <b>8738000.00</b> | <b>8496015</b> |
| <b>B. Non-Recurring Contingencies</b> |                              |                   |                   |                |
| 1                                     | Motor Vehicle (Four wheeler) | 800000.00         | 800000.00         |                |
| 2                                     |                              |                   |                   |                |
| 3                                     |                              |                   |                   |                |
| 4                                     |                              |                   |                   |                |
| <b>TOTAL (B)</b>                      |                              | <b>800000.00</b>  | <b>800000.00</b>  |                |
| <b>C. REVOLVING FUND</b>              |                              |                   |                   |                |
| <b>GRAND TOTAL (A+B+C)</b>            |                              | <b>9538000.00</b> | <b>9538000.00</b> |                |

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

| Year    | Opening balance as on 1 <sup>st</sup> April | Income during the year | Expenditure during the year | Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash) |
|---------|---------------------------------------------|------------------------|-----------------------------|----------------------------------------------------------------------------|
| 2014-15 | 2527379.50                                  | 847155.00              | 396009.85                   | 2978524.65+ (Kind)                                                         |
| 2015-16 | 2978524.65                                  | 908816.00              | 380558.98                   | 3506781.67+ (Kind)                                                         |
| 2016-17 | 3506781.67                                  | 1161787.00             | 400908.93                   | 4267659.74+ (Kind Rs. 801400.00)                                           |

7.6.(i) Number of SHGs formed by KVKs (ii) association of KVKs with SHGs formed by other organizations indicating the area of SHG activities.:84 (Dairy, Poultry, Goatry, Agarbati, Apiary, Mushroom)

## 7.7 Details of marketing channels created for the SHGs

(i) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities.

- Milk.
- Vegetable production.
- Marigold flower production.
- Goatry.
- Pickles Making.
- Mushroom production.
- Agarbatti Making

## 7.8. Special programme on Food and Nutrition :

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

| Name of activity                        | Number of activity | Season       | With line department | With ATMA | Both |
|-----------------------------------------|--------------------|--------------|----------------------|-----------|------|
| Kharif Maha Abhiyan                     | 01                 | Kharif       |                      |           | P    |
| Rabi Maha Abhiyan                       | 01                 | Rabi         |                      |           | P    |
| Within district exposure visit          | 01                 | Rabi         | P                    |           |      |
| Annual health Camp                      | 01                 | Rabi         | P                    |           |      |
| Kharif workshop                         | 01                 | Kharif       |                      |           | P    |
| Rabi workshop                           | 01                 | Rabi         |                      |           | P    |
| Soil health day                         | 01                 | Rabi         |                      |           | P    |
| Farmers scientist interaction programme | 02                 | Kharif, Rabi | P                    |           |      |
| Micro Irrigation                        | 04                 | Rabi         |                      |           | P    |

## 8. Initiative taken towards organic farming by the KVK (area brought under organic farming, crops cultivated through organic means and other relevant information)

## 9. Other information

## 9.1. Prevalent diseases in Livestock/Crops/Fishery

| Name of the disease | Crop/animal   | Date of outbreak | Number of death/ % commodity loss | Number of animals vaccinated                                                  |
|---------------------|---------------|------------------|-----------------------------------|-------------------------------------------------------------------------------|
| False Smut          | Paddy         | Oct. 2016        | qualitative loss 40 %             |                                                                               |
| F.M.D               | Cow & Buffalo | Oct. 2016        | 5 %                               | Vaccination programme conducted by Dept. of Animal Husbandry (Govt. of Bihar) |
|                     |               |                  |                                   |                                                                               |
|                     |               |                  |                                   |                                                                               |

## 9.2. Nehru Yuva Kendra (NYK) Training

| Title of the training programme | Period |    | No. of the participant |   | Amount of Fund Received (Rs) |
|---------------------------------|--------|----|------------------------|---|------------------------------|
|                                 | From   | To | M                      | F |                              |
|                                 |        |    |                        |   |                              |

## 9.3. PPV &amp; FR Sensitization training Programme

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

## 9.4.a SMS PORTAL

Date of start of functioning of SMS portal

| No. of messages | No. of calls | No. of farmers covered | Types of messages (No.) |           |         |           |           |       |
|-----------------|--------------|------------------------|-------------------------|-----------|---------|-----------|-----------|-------|
|                 |              |                        | Crop                    | Livestock | Weather | Marketing | Awareness | Other |
| 7               | -            | 21177                  | 4                       | 1         | -       | -         | 1         | 1     |

## 9.4.b Information in uploading KVK Portal by KVKs during 2016-17

| Sr. No. | Name of item/ events/ component | Uploading status (Yes/No) | No. uploaded | Remarks, if any |
|---------|---------------------------------|---------------------------|--------------|-----------------|
| 1       | KVK Profile                     | Yes                       | 1            |                 |
| 2       | Employee details                | Yes                       | 11           |                 |
| 3       | Post                            | Yes                       | 10           |                 |
| 4       | Finance                         | Yes                       | 23           |                 |
| 5       | Soil Health Card                | Yes                       | 1            |                 |
| 6       | Appliance                       | Yes                       | 46           |                 |
| 7       | Crops                           | Yes                       | 17           |                 |
| 8       | Resources                       | Yes                       | 1            |                 |
| 9       | Fish                            | No                        | Nil          |                 |
| 10      | Past events                     | Yes                       | 46           |                 |
| 11      | Future/ upcoming events         | No                        | 0            |                 |
| 12      | Facilities available at KVKs    | Yes                       | 8            |                 |
| 13      | Package and practices           | Yes                       |              |                 |
| 14      | Crop                            | Yes                       | 3            |                 |
| 15      | Livestock                       |                           | Nil          |                 |
| 16      | Fishery                         |                           | Nil          |                 |
| 17      | Horticulture                    |                           | Nil          |                 |
| 18      | CFLD on Pulses                  |                           |              |                 |
| 19      | 2016-17                         | Yes                       | 150          |                 |
| 20      | 2015-16                         | Yes                       | 185          |                 |
| 21      | CFLD Oilseeds                   |                           |              |                 |
| 22      | 2016-17                         | Yes                       | 66           |                 |
| 23      | 2015-16                         | Yes                       | 48           |                 |

## 9.5 Observation of Swacha Bharat Programme

| Date of Observation                              | Activities undertaken                                               |
|--------------------------------------------------|---------------------------------------------------------------------|
| 17,18,19,20,21,22,24,25,26,27,28,29,31 Oct. 2016 | Awareness and training regarding environmental cleanliness, hygiene |

## 9.6 Observation of National Science day

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

## 9.7. Programme with Seema Suraksha Bal (BSF)

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



## 9.8 Agriculture Knowledge in rural school:

| Name and address of school                                                                                                            | Date of visit to school                     | Areas covered                                                                                                                      | Teaching aids used |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Shahpur block Ghosi,<br>Dharaut block Makhdumpur,<br>Bholabigha block<br>Modanganj, Khirauti block<br>Modanganj, Korma Block<br>Ghosi | 24.4.16,18.5.16,15.9<br>.16,6.1.17,21.10.16 | Shahpur block Ghosi, Dharaut<br>block Makhdumpur,<br>Bholabigha block Modanganj,<br>Khirauti block Modanganj,<br>Korma Block Ghosi | Training           |

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

## Rabi Sammelan

| Name of the state | Name of district/K VK | Date on which conducted | Number of participants |        | Name of public representative | Details of Technology Demonstrated and other programmes organized |
|-------------------|-----------------------|-------------------------|------------------------|--------|-------------------------------|-------------------------------------------------------------------|
|                   |                       |                         | Farmers                | Others |                               |                                                                   |
| Bihar             | Jehanabad             | 25.02.2017              | 301                    | 13     | -                             | Traning, Exhibition                                               |
|                   |                       |                         |                        |        |                               |                                                                   |

## 9.10. Details of Pradhan Mantri Fasal Bima Yojana programme organized

| Name of the state | Name of district/K VK | Date on which conducted | Number of participants |        | Name of public representative         | Details of awareness created and other programmes organized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|-----------------------|-------------------------|------------------------|--------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                       |                         | Farmers                | Others |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Bihar             | Jehanabad             | 06.04.2016              | 1200                   | 20     | Dr. Arun Kumar, Hon'ble MP, Jehanabad | <ul style="list-style-type: none"> <li>• Video film on Pradhan Mantri Fasal Bima Yojna</li> <li>• Farmer scientist interface programme organised</li> <li>• Training on Sensitization programme on PMFBY, awareness on PMFBY, benefits of soil health card, water use efficiency, role of animal husbandry and dairying.</li> <li>• KKVK has put up exhibits showing various agricultural technologies like Light trap, Pashu Chocolate Machine, Paddy seeder, Drudgery reducing equipments like improved sickle, maize cob Sheller. On this occasion kvk trained 4 farmers also shown their produce /technologies on Beekeeping, vegetable production, medicinal plant etc. whereas 5 stalls were put up by different SHG working in the district. 12 other Stalls were also included with various agricultural inputs</li> </ul> |

| Name of the state | Name of district/<br>KVK | Thematic area | Number of programmes organized | Number of Farmers contacted | A brief about contingent plan executed by the KVK |
|-------------------|--------------------------|---------------|--------------------------------|-----------------------------|---------------------------------------------------|
|                   |                          |               |                                |                             |                                                   |

| Sl. No. | Services/ Transaction                                       | Process                                                                         | Service Standard | No. of such services attended by KVKs and ATICs during the year | No. of such services pending with KVK/ATIC beyond 30 days |
|---------|-------------------------------------------------------------|---------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
| 1.      | Guidance on Agricultural technology and technology products | Personal contact by the Service Sectors with the responsible person of KVK/ATIC |                  | 2132                                                            | Nil                                                       |

**Achievements:**

| Sr. no | Community Radio Stations (CRS)                                                                                                                                                    | No of programmes in the year | Total broadcast hrs in a month | Please specify details of the broadcasts |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------------------------------------|
| A.     | <p>Agricultural broadcasts</p> <ul style="list-style-type: none"> <li>Talks/interviews/discussions with experts, PG students/ and farmers on Agricultural technologies</li> </ul> |                              |                                |                                          |

|            |            |                       |        |    |                                    |
|------------|------------|-----------------------|--------|----|------------------------------------|
| Innovative | Makhdumpur | Smt. Sunita Kumari    | Female | 32 | Vill.-Tehta, Makhdumpur, Jehanabad |
| Innovative | Makhdumpur | Sri Shivnarayan Yadav | Male   | 45 | Vill.- Lohgarh, Makhdumpur         |

|             |            |                        |        |    |                                         |
|-------------|------------|------------------------|--------|----|-----------------------------------------|
| Innovative  | Modanganj  | Arvind Kumar Malviya   | Male   | 48 | Vill. -Bandhuganj, Modanganj, Jehanabad |
| Innovative  | Modanganj  | Kamla Sharma           | Male   | 55 | Vill.- Rampur Charui, Modanganj         |
| Progressive | Modanganj  | Shankar Singh          | Male   | 45 | Vill.- Gandhar, Modanganj               |
| Progressive | Modanganj  | Shyam Narayan Singh    | Male   | 60 | Vill.- Bandhuganj, Modanganj            |
| Progressive | Modanganj  | Gourav Kumar           | Male   | 26 | Vill.- Mananpur, Modanganj              |
| Progressive | Jehanabad  | Nagendra Singh         | Male   | 55 | Vill.- Muther, Jehanabad                |
| Progressive | Modanganj  | Vinay Kumar            | Male   |    | Vill.- Mananpur, Modanganj              |
| Progressive | Kako       | Ganesh Prasad          | Male   | 48 | Vill.-Keshopur, Kako, Jehanabd          |
| Progressive | Hulasganj, | Manoj Kumar            | Male   | 37 | Vill.- Dhongra, Hulashganj              |
| Progressive | Jehanabad  | Rajdeo Prasad          | Male   | 55 | Vill.- Gaurapur, Jehanabad              |
| Progressive | Makhdumpur | Nagmani                | Male   | 45 | Vill.-Makhdumpur, Makhdumpur            |
| Progressive | Kako       | Ganesh Prasad          | Male   | 46 | Vill.- Keshopur, Kako                   |
| Progressive | Kako       | Girijanandan Prasad    | Male   | 52 | Vill.-Khalispur, Kako                   |
| Progressive | Ghosi      | Albela Prasad          | Male   | 55 | Vill.- Korma, Ghosi                     |
| Progressive | Ghosi      | Reshma Devi            | Female | 38 | Vill.-Sripur, Ghosi                     |
| Lead        | Modanganj  | Nagendra Sharma        | Male   | 52 | Vill.- Gandhar, Modanganj               |
| Lead        | Modanganj  | Surendra Prasad Sharma | Male   | 55 | Vill.- Saristabad, Modanganj            |
| Lead        | Makhdumpur | Indu Devi              | Female | 38 | Vill.- Tehta, Makhdumpur                |
| Lead        | Modanganj  | Kaushal Sharma         | Male   | 36 | Vill.- Sakrorha, Modanganj              |
| Lead        | Modanganj  | Laxmikant Azad         | Male   | 48 | Vill.- Jaikishunbigha, Modanganj        |
| Lead        | Modanganj  | Pramila Devi           | Female | 51 | Vill.- Bandhuganj, Modanganj            |
| Lead        | Modanganj  | Prem Kumar             | Male   | 50 | Vill.- Kurua, Modanganj                 |
| Lead        | Modanganj  | Sant Kumar Sinha       | Male   | 44 | Vill.- Sakrorha, Modanganj              |
| Lead        | Modanganj  | Surendra Prasad Singh  | Male   | 54 | Vill.- Saistabad, Modanganj             |
| Lead        | Ghosi      | Rama Niwas             | Male   | 39 | Vill.- Dehuni, Ghosi                    |
| Lead        | Jehanabad  | Manoj Kumar            | Male   | 46 | Vill.- Babhana, Jehanabad               |
| Lead        | Kako       | Baidyanath Sharma      | Male   | 58 | Vill.-Afjalpur, Kako, Jehanabad         |

#### 9.15 HRD programmes organized by the KVK: -

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

## 9.16. Revenue generation:

| SL.No. | Name of Head                      | Income(Rs.) | Sponsoring agency |
|--------|-----------------------------------|-------------|-------------------|
| 1.     | Bee keeper training (ASCI)        | 135600      | ICAR              |
| 2.     | Broiler Poultry Farm Worker(ASCI) | 158800      | ICAR              |

## 9.17. Resource Generation:

| SL.No. | Name of the programme | Purpose of the programme | Sources of fund | Amount (Rs. lakhs)                     | Infrastructure created |
|--------|-----------------------|--------------------------|-----------------|----------------------------------------|------------------------|
| 1      | Revolving A/c         | Seed Production          | R/F A/c of KVK  | Net Income: 760878.07 Reciept: 1161787 | -                      |

## 9.18. Performance of Automatic Weather Station in KVK

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

## 10. Details of TSP Project

| Name of the village adopted under TSP | Block | Population of the village |   |   | ST Population of the village |   |   | Percentage of ST population to total population |
|---------------------------------------|-------|---------------------------|---|---|------------------------------|---|---|-------------------------------------------------|
|                                       |       | M                         | F | T | M                            | F | T |                                                 |
|                                       |       |                           |   |   |                              |   |   |                                                 |

## Physical achievements under TSP during 2016-17

| Programmes                                                                                                                     | Physical achievements 2016-17 |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)                                                           |                               |
| On-farm trials (Number)                                                                                                        |                               |
| Frontline demonstrations (Number)                                                                                              |                               |
| Farmers training (in lakh)                                                                                                     |                               |
| Extension personnel training (in lakh)                                                                                         |                               |
| Participants in extension activities (in lakh)                                                                                 |                               |
| Seed production (in tonnes)                                                                                                    |                               |
| Planting material production (in lakh)                                                                                         |                               |
| Livestock strains and fingerlings production (in lakh)                                                                         |                               |
| Soil, water, plant, manures samples testing (in lakh)                                                                          |                               |
| Provision of mobile agro – advisory to farmers (in lakh)                                                                       |                               |
| Others (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.) |                               |

Fund received under TSP in 2016-17:----- lakh

11. PROGRESS REPORT OF NICRA KVK (Technology Demonstration component) 2016-17  
(Applicable for KVKs identified under NICRA)

Natural Resource Management

| Name of intervention undertaken         | Numbers under taken | No of units | Area (ha)                              | No of farmers covered / benefitted |
|-----------------------------------------|---------------------|-------------|----------------------------------------|------------------------------------|
| Construction of new water storage tank  | 11                  | 11          | 28<br>200*100*6.5 ft. &<br>80*80*6 ft. | 80                                 |
| Construction of new check dam           | 8                   | 8           | 67                                     | 125                                |
| Renovation of old drainage channel      | 2                   | 3           | 1.3 Km                                 |                                    |
| In-situ moisture conservation practices | 1                   | 1           | 12                                     | 36                                 |
| Micro irrigation system                 | 1                   | 2           | 12                                     | 18                                 |
| Green manuring                          |                     |             | 3                                      | 5                                  |
| Fodder grass on farm bunds              |                     |             | 30                                     | 80                                 |
| Soil test based nutrients application   |                     |             | 1                                      | 6                                  |

### Crop Management

| Name of intervention undertaken                   | Area (ha) | No of farmers covered / benefitted |
|---------------------------------------------------|-----------|------------------------------------|
| Drought tolerant varieties                        | 38.0      | 57                                 |
| <b>Short duration varieties</b>                   | 4.0       | 10                                 |
| Abhishek                                          | 0.5       | 4                                  |
| Susk samrat                                       | 0.5       | 4                                  |
| Prabhat                                           | 4.0       | 10                                 |
| <b>Salt tolerant varieties</b>                    |           |                                    |
| Crop Diversification                              |           |                                    |
| Cultivation of chickpea (Var. BGM- 547)           | 2.0       | 15                                 |
| Cultivation of lentil (Var. HUL-57)               | 2.5       | 14                                 |
| Cultivation of pigeon pea (NDA-1)                 | 3.0       | 10                                 |
| Cultivation of linseed (Var. Ajad als-1)          | 2.5       | 12                                 |
| Cultivation of Rai (R.Suflam)                     | 10.0      | 25                                 |
| Cultivation of Spice coriander (Var. P. haritima) | 2.0       | 19                                 |
| Cultivation of Spice Fenugreek (R.Kanti)          | 0.5       | 7                                  |
| Cultivation of Spice Nigila (Var. R.Shyama)       | 0.6       | 10                                 |
| Cultivation of Omum (Var. R.Abha)                 | 0.5       | 3                                  |
| Cultivation of Elephant footyam                   | 6.35      | 37                                 |

|                           |       |    |
|---------------------------|-------|----|
| <b>Nutritional Garden</b> | 1.2   | 19 |
| Mulching                  | 2.0   | 14 |
| DSR                       | 16.0  | 16 |
| Pest & Disease management | 34.16 | 61 |

#### Livestock and fisheries

| Name of intervention undertaken   | Number of animal covered | Number of units | No of farmers covered / benefitted |
|-----------------------------------|--------------------------|-----------------|------------------------------------|
| Calf registration                 | 35                       | -               | 32                                 |
| Cattle insurance                  | 10                       | -               | 6                                  |
| Backyard poultry                  | 200                      | 36              | 36                                 |
| Improved shelters                 | 20 goat & 8 cattle       | 1               | 2                                  |
| Preventive vaccination            | 221                      | 416             | 232                                |
| Deworming of animal               | 70                       | 225             | 52                                 |
| Animal health checkup             | 267                      | 170             | 257                                |
| Mineral mixture supplementation   | 260                      | 87              | 87                                 |
| Feed enrichment                   | 29                       | 1               | 19                                 |
| Fodder production                 | 19.0 ha                  | 80              | 80                                 |
| Clean milk production             | 30                       | 12              | 12                                 |
| Renovation of community fish pond | 0.2 ha                   | 1               | 1                                  |

#### Institutional interventions

| Name of intervention undertaken     | No of units | Area (ha) | No of farmers covered / benefitted |
|-------------------------------------|-------------|-----------|------------------------------------|
| Custom hiring for timely operations | 2           | 72.5      | 72                                 |
| Community Nursery                   | 5           | 2.5       | 40                                 |
| Community Irrigation                | 5           | 18.5      | 34                                 |

#### Capacity building

| Thematic area               | No. of Courses | No. of beneficiaries |         |       |
|-----------------------------|----------------|----------------------|---------|-------|
|                             |                | Males                | Females | Total |
| Natural Resource Management | 9              | 136                  | 20      | 156   |

|                                    |    |     |    |     |
|------------------------------------|----|-----|----|-----|
|                                    |    |     |    |     |
| Resource conservation Technologies | 4  | 59  | 6  | 65  |
| Nursery raising                    | 1  | 24  | 5  | 29  |
| Pest & Disease Management          | 5  | 85  | 21 | 106 |
| Livestock management               | 2  | 25  | 19 | 44  |
| Fodder & Feed management           | 4  | 58  | 14 | 72  |
| farm Implements & machineries      | 6  | 98  | 20 | 118 |
| Value Addition                     | 7  | 127 | 14 | 141 |
| Employment Generation              | 1  | 15  | 8  | 23  |
| Home Science                       | 10 | 136 | 25 | 161 |

## Extension activities

| Thematic area          | No. of activities | No. of beneficiaries |         |       |
|------------------------|-------------------|----------------------|---------|-------|
|                        |                   | Males                | Females | Total |
| Method demonstration   | 9                 | 122                  | 15      | 137   |
| Agro Advisory Services | 372               | 117                  | 255     | 372   |
| Awareness              | 5                 | 76                   | 8       | 84    |
| Exposure Visit         |                   |                      |         |       |
| Field Day              | 9                 | 165                  | 9       | 174   |
| Group Discussion       | 10                | 149                  | 58      | 207   |
| Diagnostic Visit       | 24                | 190                  | 6       | 196   |

Detailed report should be provided in the circulated Performa

## 12. Information on NFDB Funded Capacity building programme during 2016-17

| Sl. No. | Name of capacity building training programme | Duration (days) | Date of programme | Fund (Rs.) sanctioned by NFDB, Hyderabad | No. of Farmers trained | Remarks, if any |
|---------|----------------------------------------------|-----------------|-------------------|------------------------------------------|------------------------|-----------------|
| 1       |                                              |                 |                   |                                          |                        |                 |
| 2       |                                              |                 |                   |                                          |                        |                 |
| Total   |                                              |                 |                   |                                          |                        |                 |

## 13. National Initiative on Fodder Technology Demonstration (NIFTD)

**(Applicable for KVKs identified under NIFTD)**

| Name of the fodder crop | Date of sowing | Area (ha) | No. of farmers involved | Demonstration Yield (q/ha) |     |     | Check Yield |     |     | % increase |
|-------------------------|----------------|-----------|-------------------------|----------------------------|-----|-----|-------------|-----|-----|------------|
|                         |                |           |                         | H                          | L   | A   | H           | L   | A   |            |
| Jai (kent )             | 3.11.2016      | 1.0       | 42                      | 510                        | 450 | 480 | 430         | 380 | 405 | 18.5       |
| Bar seem (Wardan)       | 3.11.2016      | 0.3       | 8                       | 490                        | 450 | 470 | 410         | 360 | 385 | 22         |

## Economic of Demonstration

| Name of the fodder crop | Demonstration Cost/Rs/ha | Check Cost (Rs/ha) |
|-------------------------|--------------------------|--------------------|
|-------------------------|--------------------------|--------------------|

|                   | Gross cost | Gross return | BC ratio | Gross cost | Gross return | BC ratio |
|-------------------|------------|--------------|----------|------------|--------------|----------|
| Jai (kent )       | 13500      | 106000       | 6.8      | 12500      | 81000        | 6.4      |
| Bar seem (Wardan) | 15000      | 94000        | 6.2      | 14000      | 77000        | 5.5      |

#### 14. Awards/Recognition received by the KVK

| Sl. No. | Name of the Award                               | Year | Conferring Authority                                                                              | Amount                  | Purpose |
|---------|-------------------------------------------------|------|---------------------------------------------------------------------------------------------------|-------------------------|---------|
| 1.      | Eminent scientist award                         | 2016 | Samagra Vikas Welfare Society, Lucknow                                                            | certificate             |         |
| 2.      | Outstanding Scientist in Agriculture Award 2016 | 2016 | the Scientific Educational Research Society, Meerut at SRM University, Delhi NCR Campus Modinagar | certificate and memento |         |
| 3       | Kisan mela stall prize                          | 2017 | BAU, Sabour                                                                                       | Certificate             |         |

#### Award received by Farmers from the KVK district

| Sl. No. | Name of the Award      | Name of the Farmer | Year | Conferring Authority | Amount                | Purpose                                          |
|---------|------------------------|--------------------|------|----------------------|-----------------------|--------------------------------------------------|
| 1       | Best Innovative Farmer | Sri Braj Kishore   | 2017 | BAU, Sabour          | certificate and Shawl | Kisan Mela BAU, Sabour                           |
| 2       | Consolation Prize      | Sri Ganesh Prasad  | 2017 | BAU, Sabour          | certificate           | Horticultural Exhibition, Kisan Mela BAU, Sabour |

#### 15. Any significant achievement of the KVK with facts and figures as well as quality photograph ASCI Trainings







16. List of 5000 farmers with mobile number and Aadhar card number (only soft copy to be enclosed)

17. Number of commodity based organizations/ farmers' cooperative society formed during last one year  
(Details of the group/society may be indicated)

Farmers Club Formed

| Sl. No. | Farmers Club                                     | Village         | Block      | Organization |
|---------|--------------------------------------------------|-----------------|------------|--------------|
| 1       | Pragatishil Krishak Club                         | Jaikishun bigha | Modanganj  | NABARD       |
| 2       | Pragatishil Krishak Club                         | Safepur         | Kako       | NABARD       |
| 3       | Pragatishil Krishak Club Keshopur                | Kesopur         | Kako       | NABARD       |
| 4       | Rampur charui dugdh utpadak sahayog samiti       | Rampur charui   | Modanganj  | NABARD       |
| 5       | Krishak Club                                     | Khalispur       | Kako       | NABARD       |
| 6       | Rampur charui Mahila Dugdh utpadak sahyog samiti | Charui          | Modanganj  | NABARD       |
| 7       | Farmer Club (Seed production)                    | Bandhuganj      | Modanganj  | NABARD       |
| 8       | Farmer Club (Goat)                               | Malathi         | Makhdumpur | Self         |
| 9       | Farmer Club (Milk)                               | Amarpura        | Kako       | COMFED       |
| 10      | Farmer Club (Milk)                               | Tirra           | Hulasganj  | COMFED       |
| 11      | Farmer Club (Brioler)                            | Jehanabad       | Jehanabad  | Self         |

18. Any other programme organized by KVK not covered above