**ANNUAL REPORT 2018-19 (April, 2018 to March, 2019)**

1. GENERAL INFORMATION ABOUT THE KVK

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

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Telephone | | E mail |
| Krishi Vigyan Kendra, Balasore | Office | FAX |  |
| AT/PO-Devog, Via- Singla,Balasore, Pin-756023 | 06781-253303 |  | kvkbalasore.ouat@gmail.com |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Telephone | | E mail |
| Office | FAX |  |
| OUAT, Bhubaneswar, Odisha | 0674-2397362 | 0674-2397933 | [deanextension\_ouat@rediffmail.com](mailto:deanextension_ouat@rediffmail.com)  deanextensionouat@yahoo.com |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
| Residence | Mobile | Email |
| Dr. Sunil Kumar Mohapatra | 06782-253303 | 9437460806 | [kvkbalasore.ouat@gmail.com](mailto:kvkbalasore.ouat@gmail.com) |

1.4. Year of sanction of KVK: 1983

1.5. Staff Position (as on 1st April, 2019)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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)** |
|  | Senior Scientist & Head | Dr. Sunil Kumar Mohapatra | Senior scientist and Head | Horticulture | 15600-39100 + AGP 8000/-  Present Basic 19380/- | 10/01/2006 | Permanent | Others |
|  | Scientist | Manoj Kumar Jena | Scientist | Soil Scientist | 15600-39100 + AGP 6000/-  Present Basic 24850/- | 13/02/2006 | Permanent | Others |
|  | Scientist | Dr. Amita rani Patra | Scientist | Home Science | 15600-39100 + AGP 6000/-  Present Basic 21390/- | 22/10/2009 | Permanent | Others |
|  | Scientist | Pravamanjari Giri | Scientist | Crop Production | 15600-39100 + AGP 6000/-  Present Basic 15600/- | 01/01/2016 | Permanent | Others |
|  | Scientist | Dr. Gayatree Sahoo | Scientist | Plant protection | 15600-39100 + AGP 6000/-  Present Basic 15600/- | 29/12/2015 | Permanent | Others |
|  | Scientist | Sefali Rout | Scientist | Forestry | 15600-39100 + AGP 6000/-  Present Basic 15600/- | 05/10/2015 | Permanent | Others |
|  | Scientist | Kamalakanta BEhera | Scientist | Ag. Extension | 15600-39100 + AGP 6000/-  Present Basic 15600/- | 27/07/2018 | Permanent | Others |
|  | Programme Assistant | Niroj Kumar Jena | Programme Assistant | Seed Science | 9300- 34000 +AGP 4200  Present Basic 10130/- | 28/12/2015 | Permanent | Others |
|  | Computer  Programmer | Sanjay Kumar Barik | Programme Assistant | Computer Science | 9300- 34000 +AGP 4200  Present Basic 16430/- | 01/07/2005 | Permanent | Others |
|  | Farm Manager | Krishnamayee Sethi | Farm Manager | Agronomy | 9300- 34000 +AGP 4200 Present Basic-13500 | 29/01/2019 | Permanent | Others |
|  | Accountant | Vacant | - | - | - | - | - | - |
|  | Stenographer | Pravat Kumar Swain | Steno Cum Computer Operator | - | 5200-20200 + GP-2400  Present Basic 6170/- | 06/03/2014 | Permanent | Others |
|  | Driver | Srikanta Sahoo | Driver Cum Mechanic | - | 5200-20200+GP 1900/-  Present Basic | 21/05/2018 | Permanent | Others |
|  | Driver | Birendra Kumar Parida | Driver Cum Mechanic | - | 5200-20200+GP 1900/-  Present Basic 6110/- | 17/02/2014 | Permanent | Others |
|  | Supporting staff | Debendra Nath Das | Peon Cum Watchman | - | 4440-7440+GP 1500/-  Present Basic 6040/- | 01/08/2008 | Permanent |  |
|  | Supporting staff | Rajkishore Mohapatra | Peon Cum Watchman | - | 4440-7440+GP 1500/-  Present Basic 6500/- | 26/12/2007 | Permanent | Others |

1.6. Total land with KVK (in ha)-7.62ha :

|  |  |  |
| --- | --- | --- |
| S. No. | Item | Area (ha) |
| 1 | Under Buildings | 0.8 |
| 2. | Under Demonstration Units | 0.3 |
| 3. | Under Crops | 0.5 |
| 4. | Orchard/Agro-forestry | 0.2 |
| 5. | Mini IFS unit | 0.1 |
| 6. | Poly house and Shade net | 0.2 |
| 7. | Unutilized Land (Encroached) | 5.5 |
|  | Total | 7.62 |

*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 |  | Use | ICAR |
| 2. | Farmers Hostel |  |  |  |  | Yes |  | Use | ICAR |
| 3. | Staff Quarters (4) |  |  |  |  | Yes |  | Use | ICAR |
| 4. | Piggery unit | Yes |  |  |  |  |  |  |  |
| 5 | Fencing |  |  |  |  | Yes | 34.64 | Use | RKVY |
| 6 | Rain Water harvesting structure | Yes |  |  |  |  |  |  |  |
| 7 | Threshing floor |  |  |  |  | Yes | 180 | Use | ICAR |
| 8 | Farm go down |  |  |  |  | Yes | 36 | Use | ICAR |
| 9. | Dairy unit | Yes |  |  |  |  |  |  |  |
| 10. | Poultry unit |  |  |  |  | Yes | 50 | Use | RKVY |
| 11. | Goatery unit | Yes |  |  |  |  |  |  |  |
| 12. | Mushroom Lab |  |  |  |  | Yes | 20.90 | Use | RKVY |
| 13. | Mushroom production unit |  |  |  |  | Yes |  | Use | ICAR |
| 14. | Shade house |  |  |  |  | Yes |  | Use | RKVY |
| 15. | Soil test Lab |  |  |  |  | Yes | 20.90 | Use | RKVY |
| 16 | Others, (vermicompost unit) |  |  |  |  | Yes | 12 | Use | RKVY |

\* 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 | Present status |
| Bike | 2010 | 50000 | 24405 | Running |
| Bolero | 2011 | 460534 | 119356 | Running |

C) Equipment & AV aids

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
| a. **Lab equipment** | | | | |
| Mrida parikshyak | 2016-17 |  | Working properly | ICAR-ATARI, Jabalpur |
| Drying Cabinet | 2017-18 | 14898 | Working properly | ICAR-ATARI, Kolkata |
| Digital Refractometer | 2017-18 | 14900 | Working properly | ICAR-ATARI, Kolkata |
| Crown cap sealing machine | 2017-18 | 5900 | Working properly | ICAR-ATARI, Kolkata |
| Vacuum sealing machine | 2017-18 | 1980 | Working properly | ICAR-ATARI, Kolkata |
| Stainless steel knife, measuring cup , glass jar .1 set | 2017-18 | 1950 | Working properly | ICAR-ATARI, Kolkata |
| Food processor | 2017-18 | 4950 | Working properly | ICAR-ATARI, Kolkata |
| b. **Farm machinery** | | | | |
| Mini power weeder | 2016-17 | 31000 | Working | ICAR-ATARI, Jabalpur |
| Post hole digger | 2016-17 | 27120 | Working | ICAR-ATARI, Jabalpur |
| c. **AV Aids** | | | | |
| Projector | 2016-17 | 16450 | Working properly | ICAR-ATARI, Jabalpur |
| Television | 2017-18 | 44300 | Working properly | ICAR-ATARI, Kolkata |

D) Farm implements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of equipment** | **Year of purchase** | **Cost (Rs.)** | **Present status** | **Source of fund** |
| Power sprayer | 2016-17 | 16294 | Working | ICAR-ATARI, Jabalpur |
| secateurs | 2016-17 | 1275 | Working |
| Line marker | 2016-17 | 2790 | Working |
| Hedge cutter | 2016-17 | 2200 | Working |
| Manual lawn mower | 2016-17 | 6000 | Working |
| Knapsack sprayer | 2016-17 | 2982 | Working |
| Multiple agar | 2016-17 | 2800 | Working |
| Multi-crop dry-land weeder | 2016-17 | 3600 | Working |
| Hand chaff cutter | 2016-17 | 2800 | Working |
| Pressure sprayer | 2016-17 | 1200 | Working |

1.8. Details SAC meeting\* conducted in the year, 2018-19

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Date | Number of Participants | Salient Recommendations | Action taken | If not conducted, state reason |
| 1. | 31/08/2018 | 30 | * OFT Programme should be taken up in all blocks. * Soil sample should be collected and tested before and after Experiment on trial. * Training and awareness programme should focus on seed production programme in Paddy crops. * KVK should document the success story of the farmers and farm women * Awareness creation among farmers for recommendation of soil test based fertilizer application. * Demonstration on Fishery science programme may be conducted in convergence programme with Fishery Dept. * KVK, Balasore may utilize the expertise of fishery and veterinary Sc. From Dept. And ring KVK, Bhadrak. * Training programme on Mushroom spawn production should be conducted. * KVK should publish Extension bulletin like Leaflets, Booklets, Newsletter etc for dissemination of technology * KVK should create Farmers club with the help of NABARD, Balasore * In training programme KVK should quantify the training programme and participants. * Recruitment of Fishery scientist or Animal scientist against the vacant post. * KVK should conduct training programme at watershed catchment area. | * OFT programme has been taken up in the adopted villages of KVK * Soil sample was collected & tested before OFT, FLD & CFLD programme * success storie of the farmers and farm women were documented & will be published in a book form * During various training prog., Soil Scientist created awareness among farmers for recommendation of soil test based fertilizer application. * 8. Training programme on Mushroom spawn production was conducted by Home Scientist * during 2018-19, KVK published 1 neslette, 2nos. of booklet, 2nos. of leaflet for dissemination of technology * 2nos. of Farmers club were created at Bhograi & Baliapl block with the help of NABARD, Balasore | * Training and awareness programme on seed production in Paddy crops will be conducted during 2019-20 * Demonstration on Fishery science programme will be conducted in convergence programme with Fishery Dept during 2019-20 * DEE was informed about Vacancy of Fishery scientist or Animal scientist post * Training prog. at watershed catchment area will be conducted during 2019-20 |

*\* Salient recommendation of SAC in bullet form*

**PROCEEDINGS OF THE XXIInd**

**SCIENTIFIC ADVISORY COMMITTEE MEETING**

The **XXIInd** Scientific Advisory Committee Meeting of KVK, Balasore was held on 31st August, 2018 in the Conference Hall of KVK under the Chairmanship of Dr. B.K. Mohapatra, Joint Director, Extension (Information), OUAT, Bhubaneswar. The meeting was started at 10.30 am with a warm welcome to Dr. B.K. Mohapatra, Joint Director, Extension (Information), OUAT and other SAC members by Sr. Scientist & Head. The Chairman & other dignitaries inaugurated the meeting by lighting the sacred lamp. The Chairman briefed the importance of the SAC meeting for the better functioning of KVK and started the proceedings as per the agenda.

**Agenda-I: Approval of the proceedings of the last SAC meeting**

The Sr. Scientist & Head briefly presented the proceedings of the last SAC meeting of KVK which was circulated earlier to all the members. The Chairman taking the consent of the members approved the proceedings.

**Agenda-II: Action taken report on the proceedings of the last SAC meeting**

The Sr. Scientist & Head presented the **Action Taken Report** of the KVK as per the recommendation of the last meeting as mentioned below.

**Action Taken Report on Recommendation of the XXIth**

**Scientific Advisory Committee Meeting held on 26.07.2017**

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Recommendations** **/Suggestions** | **Action Taken** |
|  | Promotion of crop diversification | Emphasis has been given for promotion of crop diversification through FLD and OFT. FLD on Rice-Toria paira cropping system in rice fallow was conducted at Asanbani, Nilgiri |
|  | Bio insecticides and pesticides should be promoted in the district | Training programme on bio-insecticides and pesticides has been conducted in adopted villages, also use of bio-pesticides has been taken up as demonstration at KVK instructional farm |
|  | Importance should be given on farm mechanization | Farmer friendly farm implements like cono weeder, groundnut decorticator, power weeder, coconut de-husker for drudgery reduction has been demonstrated |
|  | Organic farming should be practiced | Vocational training on organic farming in vegetables has already been conducted in village Asanabani, Nilgiri. A project proposal for setup a organic farming in KVK farm has been sent to DEE, OUAT |
|  | Suggestion for increasing Pulses & Oilseeds area in the district | Trainings and CFLD have been taken in our operational villages on scientific cultivation in oil seeds & pulses crop. |
|  | Emphasis should be given to double the farmers income | Cost minimization technologies have been included in doubling the farmers’ income module. |
|  | KVK should facilitate marketing of various agricultural commodities | Mushroom growers association has been formed, promoting farmer-producer companies with support of NABARD. |
|  | Regular skill development trainings for rural youths should be organized by KVK | Regular skill development trainings on Mushroom cultivation, honey bee, lac cultivation for rural youths are being organized. |
|  | KVK should develop progressive farmers as technology agents/master trainers through capacity building | Master trainers in Mushroom, honey bee & vermin-compost have been developed through capacity building training and regular updation of skill and knowledge |
|  | Dose and timely application of hormones treatment should be standardized in better production of betel vine. | Demonstration on use of Zinc and Triacontanol on leaf yield of Betel vine was conducted at Narayanpur, Balipal |
|  | KVK should create massive awareness programme on Pradhan Mantri Fasal Beema Yojana | Awareness programme on Pradhan Mantri Fasal Beema Yojana was conducted at adopted villages of KVK in convergence with NABARD & Lead Bank |
|  | Villages of all blocks should be covered under KVK activities | KVK has covered all the blocks under vocational training activities and 43 nos. of villages through direct intervention |

**Agenda-III: Achievements made by KVK**

The Sr. Scientist & Head presented the achievements for the year 2017-18

**Training:** The KVK has conducted 34 nos. training programmes for practicing farmers and farm women, 04 nos. for rural youth and 06 nos. for extension functionaries.

**On farm testing:** The KVK has conducted 8 nos. of OFTs on major thrust areas like Assessment of molybdenum application in Green gram, Integrated Nutrient Management in Tomato, Rice Crop Manager in transplanted Rice, Integrated Nutrient Management in Toria, Integrated Stem borer management in Summer Paddy, Integrated Management of YMV in Green Gram, Poultry breed in Backyard.

**Front Line Demonstration:** The KVK has conducted 12 nos. of FLDs on various aspects like Demonstration on potassium and zinc application for management of iron toxicity in rice, Jute retting through use of CRIJAF Sona microbial culture, Foliar application of boron mixed with urea in Cucumber, Zinc and Triacontanol on leaf yield of Betel vine, Management of sheath blight in medium land transplanted Rice, Integrated Management of Nematodes in Betel Vine, Integrated Management of Okra Shoot and Fruit Borer, Rice-Toria paira cropping system in the Rain-fed medium land condition, Application of herbicide Bispyribac Sodium in paddy and Imazethapyr in Groundnut, Oyster Mushroom variety: *Pleurotus pulmonarius* , Poultry breed “Rainbow Rooster in backyard, Cluster Demonstration on Groundnut, Toria, Sesamum & Black Gram.

**Other extension activities:** During the period KVK has conducted 01 Kisan Gosthies, 04 field days,4 no of Exhibition, 01 SHG convenor meeting, 01nos of animal health camp, 09nos of special day celebration, 01 radio programmes, 02 TV programmes, published 02 booklets, 01 issues of KVK Newsletter**.**01 noof Farmers club convenor meeting etc. programme was conducted during 2017-18.

**Agenda-IV: Action plan of KVK**

The Sr. Scientist & Head presented the action plan of KVK for the year 2018-19. 12nos. of OFTs, 19nos. of FLDs, 69 nos. of trainings for farmers and farm women, 12 nos. for rural youths and 10 nos. for extension functionaries formulated for the period were discussed.

**Agenda-V: Constraints of KVK**

The Sr. Scientist & Head presented the constraints of KVK and drew kind attention of the Chairman and members of the house on the following points.

1. The post of section officer is lying vacant since last 6 years.
2. KVK is located in a remote area far away from district HQs.
3. Frequent failure of power and internet connectivity.
4. Insufficient farm land.

The dignitaries released the KVK newsletter “Shyamala” and Booklet on “Sweet corn cultivation” and “Mushroom cultivation”.

The Chairman appreciated the overall activities of KVK. He has suggested the following action points after considering the suggestions made by the members.

1. OFT Programme should be taken up in all blocks.
2. Soil sample should be collected and tested before and after Experiment on trial.
3. Training and awareness programme should focus on seed production programme in Paddy crops.
4. KVK should document the success story of the farmers and farm women
5. Awareness creation among farmers for recommendation of soil test based fertilizer application.
6. Demonstration on Fishery science programme may be conducted in convergence programme with Fishery Dept.
7. KVK, Balasore may utilize the expertise of fishery and veterinary Sc. From Dept. And ring KVK, Bhadrak.
8. Training programme on Mushroom spawn production should be conducted.
9. KVK should publish Extension bulletin like Leaflets, Booklets, Newsletter etc for dissemination of technology
10. KVK should create Farmers club with the help of NABARD, Balasore
11. In training programme KVK should quantify the training programme and participants.
12. Recruitment of Fishery scientist or Animal scientist against the vacant post.
13. KVK should conduct training programme at watershed catchment area.

The meeting was ended at 1.30 pm with a warm vote of thanks by Home scientist.

**List of participants in the SAC Meeting**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No** | **Name** | **Designation** | **Address** |
| 1 | NIlu Mohapatra | Sub-Collector | Collectotorate, Balasore |
| 2 | Dr. Kalyan Sundar Das | Principal scientist | ICAR-ATARI, KOLKATA |
| 3 | Prof.S.S. Mahapatra | ADR | RRTTS Ranital |
| 4 | Prof. B.K. Mohapatra | JDE (Information) | DEE, OUAT |
| 5 | Kailash Chandra Parida | DDA, Balasore | DDA, Balasore |
| 6 | Mr. U. Das | LDM, Balasore | LDM, Balasore |
| 7 | B.C. Dhal | AGM, NABARD | AGM, NABARD, Balasore |
| 8 | A.K. Bhoi | DDF, Balasore | DDF, Balasore |
| 9 | A.K. Dey | Asst. Executive Engineer | Minor Irrigation Sub-division, Basta |
| 10 | N.K. Padhi | Asst. Executive Engineer | Minor Irrigation Sub-division, Balasore |
| 11 | N.K. Mahakul | Project Executive | Dhan Foundation |
| 12 | R.R. Patra | Asst. Soil Conservation Officer | PD, Watershed, Balasore |
| 13 | Nityananda Das | CDVO, Balasore | CDVO, Balasore |
| 14 | Biswaraj Panda | DFO (WildLife) | O/O DFO (WildLife) |
| 15 | Sarbeswar Bagudui | DDH, Balasore | DDH, Balsore |
| 16 | Dr. Sanghamitra Pattnaik | Senior Scientist & Head | KVK, Mayurbhanj-I |
| 17 | Dr. D.R. Sarangi | OIC KVK Cuttack | ICAR-NRRI |
| 18 | Anjan Kumar Dandapat | Farmer Representative | At/Po-Sahada, Balasore |
| 19 | A.K. Mondal | Industrial Promotion Officer | OIC, Balasore |
| 20 | Sadhana Panda | AHO, Basta/Baliapal | O/O DDH Balasore |
| 21 | Mrs. Arati Sahoo | Representative of Women Farmer | At/Po-Sanakhuidi, Basta |
| 22 | Subhadra Dey | Representative of Women Farmer | Palapada, Baliapal Block |
| 23 | Manoj Kumar sasmal | Director | Subarnabhumi FPC, Debkumar |
| 24 | Swayamprava Bal | Assistant Fisheries Officer | Baliapal Block |
| 25 | Pradeep Kumar Jena | Director | Subarnabhumi FPC, Debkumar |
| 26 | Srimanta Pradhan | Director | Subarnabhumi FPC, Debkumar |
| 27 | Dr. (Mrs) Amita Rani Patra | Scientist (Home Science) | KVK, Balasore |
| 28 | Ms. Pravamanjari Giri | Scientist (Agronomy) | KVK, Balasore |
| 29 | Dr. (Ms) Gayatree Sahoo | Scientist (Plant Protection) | KVK, Balasore |
| 30 | Kamalakanta Behera | Scientist (Ag. Extension) | KVK, Balasore |
| 31 | Mr. Niroj Kumar Jena | PA (Seed Sc. & Technology) | KVK, Balasore |

2. a. District level data on agriculture, livestock and farming situation (2018-19)

|  |  |  |
| --- | --- | --- |
| Sl. no. | Item | Information |
| 1 | Major Farming system/enterprise | Rice-Oilseeds-Vegetables |
| 2 | Agro-climatic Zone | North Eastern Coastal Plain Zone |
| 3 | Agro ecological situation | Alluvial rain-fed |
| 4 | Soil type | **Alluvial, Red lateritic, Saline** |
| 5 | Productivity (t/ha) of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others | Paddy – 2.48, Groundnut – 2.23, Green Gram -0.52  Brinjal- 16.79, Banana – 18.51 |
| 6 | Mean yearly temperature, rainfall, humidity of the district | **Max. 36.10C , Min. 13.70C, 1568.4mm, 75%** |
| 7 | Production of major livestock products like milk, egg, meat etc. | Milk - 4,45,872 litres/day, **Egg- 32987456nos.** , **Meat- 18189 MT** |

2. b. **Details of operational area / villages (2018-19)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of Taluk** | **Name of the block** | **Name of the villages** | **Major crops**  **& enterprises** | **Major problems identified (crop-wise)** | **Identified Thrust Areas** |
|  | Balasore | Bhograi | Pantei | Paddy, Groundnut, Bitter Gourd, Okra | Submergence problem, Non adoption of additional income sources like poultry, goatery by the low income families | * Early, medium and flood tolerant high yielding rice varieties * High yielding oilseeds cultivation technology * Integrated insect pest and disease management practices * Integrated nutrient management |
|  | Balasore | Remuna | Tahalia | Paddy, Cole crops, Mushroom | Low yield in vegetables, low yield in fish, lack of exposure for freshwater prawn culture | * Intensive fish and fresh water prawn culture. * Integrated insect pest and disease management practices * Integrated nutrient management * Diversified cropping pattern |
|  | Balasore | Nilgiri | Asanbani | Paddy, Goatery, Poultry | Local poultry & goat farming, cultivation of only paddy crop, Unscientific lac cultivation | * Wasteland afforestation with forest and medicinal plants, integrated farming and utilization of forest produce. * Encourage organization of farmers/farmwomen & popularization of power plough, seed drills, inter culture and harvesting implements. * Integrated insect pest and disease management practices * Integrated nutrient management |
|  | Balasore | Basta | Agarpada | Paddy, Poultry | Salinity problem, adoption of local varieties of rice with less market demand | * Integrated insect pest and disease management practices * Integrated nutrient management |
|  | Balasore | Simulia | Haripur | Paddy, Green Gram, Vegetables | Adoption of local varieties of rice with less market demand, low yield of mustard, low yield of fish | * Diversified cropping pattern * Integrated insect pest and disease management practice * Integrated nutrient management |

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

Name of the villages adopted by PC and SMS (2018-19) for its development and action plan

|  |  |  |
| --- | --- | --- |
| **Name of village** | **Block** | **Action taken for development** |
| Pantei | Bhograi | Training, OFT, FLD, IRRI head to head trial, Awareness Programme on Schemes Of Line Department, Animal Health Camp |
| Agarpada | Basta | Training FLD Awareness Programme on Schemes Of Line Department, Animal Health Camp |
| Tahalia | Remuna | Training, IRRI head to head trial, FLD Awareness Programme on Schemes Of Line Department, Animal Health Camp |
| Asanbani | Nilgiri | Training, FLD on rice-toria paira cropping system, Lac cultivation, |
| Haripur | Simulia | Training & FLD on Sheath blight management, CFLD-Toria, |

2.1 **Priority thrust areas**

|  |  |
| --- | --- |
| **S. No** | **Thrust area** |
|  | Early, medium and flood tolerant high yielding rice varieties. |
|  | High yielding oilseeds cultivation technology. |
|  | High yielding pulse cultivation technology. |
|  | Commercial cultivation of coconut, banana, papaya and hybrid vegetables |
|  | Adoption of mushroom cultivation, beekeeping and vermicompost. |
|  | Encourage organization of farmers/farmwomen & popularization of power plough, seed drills, inter culture and harvesting implements. |
|  | Integrated insect pest and disease management practices. |
|  | Profitable betel vine & Jute cultivation. |
|  | Artificial insemination and broiler poultry farming. |
|  | Intensive fish and fresh water prawn culture. |
|  | Wasteland aforestation with forest and medicinal plants, integrated farming and utilization of forest produce. |
|  | Integrated nutrient management |
|  | Diversified cropping pattern |

3. **TECHNICAL ACHIEVEMENTS**

3.A. Details of target and achievement of mandatory activities by KVK during the year

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OFT | | | | | | | | | | | | FLD | | | | | | | | | | | |
| No. of technologies tested: | | | | | | | | | | | | No. of technologies demonstrated: | | | | | | | | | | | |
| Number of OFTs | | Number of farmers | | | | | | | | | | Number of FLDs | | Number of farmers | | | | | | | | | |
| Target | Achievement | Target | Achievement | | | | | | | | | Target | Achievement | Target | Achievement | | | | | | | | |
|  |  |  | SC | | ST | | Others | | Total | | |  |  |  | SC | | ST | | Others | | Total | | |
|  |  |  | M | F | M | F | M | F | M | F | T |  |  |  | M | F | M | F | M | F | M | F | T |
| 13 | 10 | 91 | 1 | 1 | 2 | 6 | 55 | 5 | 58 | 12 | 70 | 21 | 19 | 210 | 12 | 6 | 27 | 10 | 110 | 25 | 149 | 41 | 190 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Training | | | | | | | | | | | | Extension activities | | | | | | | | | | | |
| Number of Courses | | Number of Participants | | | | | | | | | | No.of activities | | Number of participants | | | | | | | | | |
| Target | A | Target | Achievement | | | | | | | | | T | A | Target | Achievement | | | | | | | | |
|  |  |  | SC | | ST | | Others | | Total | | |  |  |  | SC | | ST | | Others | | Total | | |
|  |  |  | M | F | M | F | M | F | M | F | T |  |  |  | M | F | M | F | M | F | M | F | T |
| 69 | 45 | 2070 | 101 | 78 | 145 | 78 | 565 | 343 | 811 | 421 | 1170 | 20 | 15 | 1500 | 150 | 60 | 78 | 27 | 897 | 178 | 1125 | 265 | 1390 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Impact of capacity building | | | | | | | | | | | Impact of Extension activities | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | |
| Number of Participants trained | | Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | | | Number of Participants attended | | Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | |
| Target | Achievement | SC | | ST | | Others | | Total | | | | Target | Achievement | SC | | ST | | Others | | Total | | |
|  |  | M | F | M | F | M | F | M | F | T | |  |  | M | F | M | F | M | F | M | F | T |
| 12 | 4 | 3 | 3 | 3 | 2 | 49 | 15 | 55 | 20 | 75 | | 12 | 9 | 10 | 5 | 11 | 12 | 92 | 36 | 113 | 53 | 166 |

|  |  |  |  |
| --- | --- | --- | --- |
| Seed production (q) | | Planting material (in Lakh) | |
| Target | Achievement | Target | Achievement |
| - | - | 37400 | 16392 |

|  |  |  |  |
| --- | --- | --- | --- |
| Livestock strains and fish fingerlings produced (in lakh)\* | | Soil, water, plant, manures samples tested (in lakh) | |
| Target | Achievement | Target | Achievement |
| 0.02 | 0.01266 | 1000 | 685 |

* \* Give no. only in case of fish fingerlings

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Publication by KVKs | | | | | | | |
| Item | Number | No. circulated | No. of Research papers in NAAS rated Journals | Highest NAAS rating of any publication | Average NAAS rating of the publications | Details of awarded publication, if any | Details of Award given to the publication |
| Research paper | - | - |  |  |  |  |  |
| Seminar/conference/ symposia papers | 01 | - |  |  |  |  |  |
| Books | - | - |  |  |  |  |  |
| Bulletins | - | - |  |  |  |  |  |
| News letter | 1 | 500 |  |  |  |  |  |
| Popular Articles | - | - |  |  |  |  |  |
| Book Chapter | - | - |  |  |  |  |  |
| Extension Pamphlets/ literature | 05 | 2500 |  |  |  |  |  |
| Technical reports | 05 | 150 |  |  |  |  |  |
| Electronic Publication (CD/DVD etc) | 10 | 10 |  |  |  |  |  |
| TOTAL | **22** | **3160** |  |  |  |  |  |

1. **Achievements on technologies assessed and refined**

**OFT-1**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of lime application in Green gram** |
| 2. | Problem diagnosed | Low yield of green gram in acid soil due to poor growth and nutrient uptake |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: STBR + seed coated with lime (CaCO3) @ 160g/kg seed  TO2: STBR + 0.2 LR as CaCO3 (furrow application) |
| 4. | Source of Technology | OUAT,2016 |
| 5. | Production system and thematic area | Rice-Green gram cropping system and |
| 6. | Performance of the Technology with performance indicators | Lime alleviates soil acidity and helps in better nutrient availability and uptake |
| 7. | Final recommendation for micro level situation | STBR + seed coated with lime (CaCO3) @ 160g/kg seed |
| 8. | Constraints identified and feedback for research | Poor Availability of PMS |
| 9. | Process of farmers participation and their reaction | There was complete involvement of beneficiary farmer in the trial & were satisfied with the results. |

*Thematic area: Integrated nutrient management,*

Problem definition:

Technology assessed: Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation(Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of pods/plant | No. of branches/plant | Test wt. (100 seed wt.) |
| FP | 07 | 18.5 | 4.40 | 3.58 | 15.4 | 6.20 | 22000 | 37200 | 15200 | 1.69 |
| TO-1 | 07 | 26.2 | 4.75 | 3.68 | 6.2 | 8.68 | 22150 | 52080 | 29930 | 2.35 |
| TO-2 | 07 | 25.8 | 4.70 | 3.66 | 6.5 | 8.25 | 24400 | 49500 | 25100 | 2.03 |

Results: STBR + seed coated with lime (CaCO3) @ 160g/kg seed

**OFT-2**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Integrated Nutrient Management In Tomato** |
| 2. | Problem diagnosed | Low yield of Tomato due to micro nutrient deficiency and poor nutrient use efficiency |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: STBFR  TO2:Seedling treatment with bio fertilizer (Azotobacter@2%Solution) foliar spray of water soluble fertilizers(N:P:K 19:19:19@0.5%)at 30DAT+foliar application of micronutrient mixture (borax0.2%and ZnSo4 0.5%)at 45DAT |
| 4. | Source of Technology | IIVR Varanasi-2008 |
| 5. | Production system and thematic area | Rice-Vegetable Cropping system Integrated nutrient management |
| 6. | Performance of the Technology with performance indicators | Seedling root dip with biofertilizer and foliar application of nutrients enhances yield by increasing no. of fruits/ plant & weight of fruits. |
| 7. | Final recommendation for micro level situation | For higher yield seedling root dip with Azotobacter 0.2% solution and foliar spray of N:P:K 19:19:19 0.5% at 30DAT and micro nutrient mixture (borax 0.2% and ZnSo4 0.5%) at 45DAT. |
| 8. | Constraints identified and feedback for research | Good quality biofertilizer are not available in local market. |
| 9. | Process of farmers participation and their reaction | During the entire persion of the trail the farmer shown keen intrest. They learn through method demonstration. The farmers express satisfication over the result of the trail. |

*Thematic area: Integrated nutrient management,*

Problem definition: Low yield of Tomato due to micro nutrient deficiency and poor nutrient use efficiency

Technology assessed: Seedling root dip with biofertilizer and foliar application of nutrients

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of Fruits/plant | Avg. fruit weight. | Test wt. (100 seed wt.) |
| FP | 07 | 41.2 | 75.2 | - | 15.3 | 350.0 | 110000 | 280000 | 1,70,000 | 2.55 |
| TO-1 | 07 | 48.8 | 81.7 | - | 8.6 | 413.5 | 112300 | 330800 | 2,18,500 | 2.94 |
| TO-2 | 07 | 49.6 | 82.5 | - | 8.2 | 415.4 | 111900 | 332320 | 2,20,420 | 2.97 |

**OFT-3**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of rice varieties for BPH tolerance** |
| 2. | Problem diagnosed | Low yield of rice due to heavy infestation of BPH/WBPH |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: Pratikshya variety of rice is moderately resistant to WBPH  TO2: Hasanta variety of rice is tolerant to BPH with good yield potential of 5.2 to 5.5 t/ha having 140 days maturity duration |
| 4. | Source of Technology | OUAT, 2014 |
| 5. | Production system and thematic area | Varietal evaluation |
| 6. | Performance of the Technology with performance indicators | No. of effective tillers/hill, No. of spikelet per panicle, No. of BPH /hill, grain yield, B:C Ratio |
| 7. | Final recommendation for micro level situation | Cultivation of Hasanta variety of rice which is BPH tolerant |
| 8. | Constraints identified and feedback for research | The duration of variety differs from location to location |
| 9. | Process of farmers participation and their reaction | They actively participated as a new variety was introduced to that area where the yield loss due to BPH infestation was more |

*Thematic area:* Varietal evaluation

Problem definition: Low yield of rice due to heavy infestation of BPH/WBPH

Technology assessed: Assessment of rice varieties for BPH tolerance

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of effective tillers/hill | No. of spikelet per panicle | No. of BPH /hill |
| Farmers practice | 7 | 8.5 | 102 | 17 | 30 | 41.5 | 43000 | 72625 | 29625 | 1.68 |
| Hasanta | 7 | 9.6 | 118 | 4 | 4 | 48.3 | 43000 | 84525 | 41525 | 1.96 |
| Pratikshya | 7 | 9.5 | 112 | 14 | 22 | 42.7 | 43000 | 74725 | 31725 | 1.72 |

Result: Cultivation of BPH tolerant rice variety Hasanta considerably increases the grain yield by 16 % over farmers practices due to less infestation of BPH/WBPH.

**OFT-4**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Rice Crop Manager in Transplanted Rice** |
| 2. | Problem diagnosed | Low yield of rice due to improper nutrient management |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: Soil test based fertilizer dose (STBFR)  TO2: Fertilizer application as per Rice crop manager |
| 4. | Source of Technology | OUAT, 2014 |
| 5. | Production system and thematic area | Integrated nutrient management |
| 6. | Performance of the Technology with performance indicators | EBT/Hill, no of grains/panicle, Panicle length, grain yield, B:C Ratio |
| 7. | Final recommendation for micro level situation | Fertilizer recommendation according to the rice crop manager (RCM) |
| 8. | Constraints identified and feedback for research | The farmers are not acquainted with the use of computer and mobile phones |
| 9. | Process of farmers participation and their reaction | They actively participated as each farmers field get unique recommendation on improved fertilizer management along with sources, rates and timing |

*Thematic area:* Integrated Crop Management

Problem definition: Unbalanced and heavy dose of Urea and DAP application along with no use of micronutrient fertilizer.

Technology assessed: Assessment of Rice Crop Manager (RCM) in transplanted Rice

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of effective tillers/hill | No. of spikelet per panicle | Test wt. (1000 grain wt.) |
| Farmers practice | 7 | 9.2 | 98 | 18.82 | 25 | 41.7 | 44000 | 72975 | 28975 | 1.66 |
| TO1: Soil test based fertilizer dose (STBFR) | 7 | 10.3 | 109 | 21.23 | 15 | 47.5 | 44000 | 83125 | 39125 | 1.88 |
| TO2: Fertilizer application as per Rice crop manager | 7 | 10.8 | 114 | 21.02 | 12 | 48.6 | 44000 | 85050 | 41050 | 1.93 |

Results: The use of RCM technology in rice increases no. of effective tillers, no. of spikelet per panicle and test weight along with less infestation of disease pest as compare to farmers practice and it increase grain yield by 16 % without any increase in cost of cultivation.

**OFT-5**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Poultry breed in Backyard** |
| 2. | Problem diagnosed | Low Income from rearing poultry breed - Banspatri |
| 3. | Details of technologies selected for assessment/refinement | T1: Backyard rearing of Poultry breed Kadaknath  T2: Backyard rearing of poultry breed Nirbhik |
| 4. | Source of Technology | T1- CPDO, Bhubaneswar, 2008  T2- CPDO, Bhubaneswar, 2010 |
| 5. | Production system and thematic area | Income generationactivities for women empowerment |
| 6. | Performance of the Technology with performance indicators | Egg per year, ABW, B.C. Ratio and age of sexual maturity |
| 7. | Final recommendation for micro level situation | Final Result is awaited |
| 8. | Constraints identified and feedback for research | Breed of Nnirbhikdid not available in required amount |
| 9. | Process of farmers participation and their reaction | Actively participated and excited with new black colour breed of kadaknath |

*Thematic area:* Income generationactivities for women empowerment

Problem definition: Low Income from rearing poultry breed

Technology assessed: Assessment of Poultry Breed Variety for backyard rearing

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease incidence (%) | Yield  (Kg/bird in 4 months) | Cost of cultivation  (Rs./ birds) | Gross return (Rs./ birds) | Net return  (Rs./ birds) | BC ratio |
| ABW of 4 months/bird (kg) | age of sexual maturity | Egg per year |
| FP: Banspatri | 7 (10 birds each) | 0.25 | - |  |  | 0.25 | 120 |  |  |  |
| TO1: Backyard rearing of Poultry breed kadaknath | 7 (10 birds each) | 0.325 |  |  | 0.325 | 130 |  |  |  |
| TO2: Backyard rearing of poultry breed Nirbhik | - | - | - | - | - | - | - | - |  |

**OFT-6**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Different Strains of Paddy Straw Mushroom(*V. volvacea*)** |
| 2. | Problem diagnosed | Low yield (Avg. 500 g to 700g/bed) due to low biological efficiency |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: Cultivation of strain OSM-11  TO2: Cultivation of strain OSM-12  The strains OSM-11 and OSM-12 are tolerant to disease, pest, heat and have high biological efficiency. |
| 4. | Source of Technology | CTMRT, OUAT, 2013 |
| 5. | Production system and thematic area | Income generationactivities for women empowerment |
| 6. | Performance of the Technology with performance indicators | Yield/bed, bio-efficiency, bud weight and B:C Ratio |
| 7. | Final recommendation for micro level situation | OSM-11 strain of paddy straw mushroom spawn is recommended for better yield and income |
| 8. | Constraints identified and feedback for research | Unavailability of plenty mushroom spawn strain in time |
| 9. | Process of farmers participation and their reaction | Actively participated and they are satisfied with this strain |

*Thematic area:* Income generationactivities for women empowerment

Problem definition: Low yield (Avg. 700 g to 1 kg/bed) due to low biological efficiency

Technology assessed: Assessment of different strains of Paddy Straw Mushroom

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease pest incidence (%) | Yield/bed  (kg/bed) | Cost of cultivation  (Rs./bed) | Gross return (Rs./bed) | Net return  (Rs./bed) | BC ratio |
| Days of fruiting | Bud weight | Yield/bed |
| FP | 7 | 12 days |  | 0.65 |  | 0.65 | 55 | 78 | 23 | 1.41 |
| TO1: Cultivation of strain OSM-11 | 7 | 11 days |  | 0.8 |  | 0.8 | 55 | 96 | 41 | 1.74 |
| TO2: Cultivation of strain OSM-12 | 7 | 12 days |  | 0.725 |  | 0.725 | 55 | 87 | 32 | 1.58 |

Results: Mushroom spawn strain OSM -11 gave yield 0.8kg/bed in summer, which is it 13 &78 % increase in yield and net return over farmers practice, respectively and may give more yield in rainy season.

**OFT-7**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Integrated Management of Shoot and Fruit Borer in Brinjal** |
| 2. | Problem diagnosed | Low yield in brinjal due to high incidence brinjal fruit and shoot borer, area affected -2,000ha, extent of loss – 30 to 80% |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | **FP:** Spraying of Triazophos 40EC@ 2ml/ltr water  **TO1:** Intercropping of brinjal with coriander @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Spinosad 45SC@ 1ml/3ltr water at 10 days interval  **TO2:**Intercropping of brinjal with cowpea @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Thiodicarb 75WP @ 2g/lit water |
| 4. | Source of Technology | OUAT, 2015 |
| 5. | Production system and thematic area | IPM |
| 6. | Performance of the Technology with performance indicators | Percent fruit infestation, Fruit Yield (q/ha), Economics |
| 7. | Final recommendation for micro level situation | Intercropping of brinjal with coriander @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Spinosad 45SC@ 1ml/3ltr water at 10 days interval |
| 8. | Constraints identified and feedback for research | Lack of availability of lures of pheromone trap in local market |
| 9. | Process of farmers participation and their reaction | Farmers are curious about the use of pheromone traps and new generation insecticides in pest management aspect and are completely involved and very cooperative throughout the process,. |

*Thematic area: IPM*

Problem definition: Stem borer management in summer paddy

**Technology assessed**:

**FP:** Spraying of Triazophos 40EC@ 2ml/ltr water

**TO1:** Intercropping of brinjal with coriander @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Spinosad 45SC@ 1ml/3ltr water at 10 days interval

**TO2:**Intercropping of brinjal with cowpea @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Thiodicarb 75WP @ 2g/lit water

**Table:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of fruits / plant | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP: Spraying of Triazophos 40EC @ 2ml/lit water | 7 | 11 |  |  | 10.30 | 212.20 | 188343 | 318300 | 129957 | 1.69 |
| TO1 **:** Intercropping of brinjal with coriander @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Spinosad 45SC@ 1ml/3ltr water at 10 days interval | 7 | 21 |  |  | 4.50 | 259.30 | 198950 | 388950 | 190000 | 1.96 |
| TO2: Intercropping of brinjal with cowpea @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Thiodicarb 75WP @ 2g/lit water | 7 | 19 |  |  | 5.69 | 252.50 | 198298 | 378750 | 180452 | 1.91 |

**Results**: Intercropping of brinjal with coriander @ 5:1 + Mass trapping of adult with pheromone trap@ 50nos./ha + Removal of infested plant parts + Need Based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Spinosad 45SC@ 1ml/3ltr water at 10 days interval was best trteatment with lower fruit infestation of 4.50% and B:C ratio of 1.96.

**OFT-8**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Integrated Management of YMV in Green Gram** |
| 2. | Problem diagnosed | Low yield due to heavy occurrence of yellow vein mosaic virus, area affected-500ha, extent of loss – 60-80% |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Need based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Flonicamid 50WG@ 1g/3ltr water at 10 days interval  TO2: Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Barrier crop Maize(3-row) + Need Based spraying of Neem oil 1500ppm@ 3ml/ltr & Thiamethoxam 25WG@ 5g/15ltr water at 10 days interval |
| 4. | Source of Technology | TNAU, 2014 |
| 5. | Production system and thematic area | IPM |
| 6. | Performance of the Technology with performance indicators | Infected Plant/ m2, Seed Yield (q/ha), Economics |
| 7. | Final recommendation for micro level situation | Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Need based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Flonicamid 50WG@ 1g/3ltr water at 10 days interval |
| 8. | Constraints identified and feedback for research | Unavailability of prescribed pesticides in local market. |
| 9. | Process of farmers participation and their reaction | Farmers are deeply involved in the OFT process |

*Thematic area: IPM*

Problem definition: Integrated Management of YMV in Green Gram

**Technology assessed:**

FP: Spraying of Triazophos 40EC@ 2ml/ltr of water

TO1: Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Need based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Flonicamid 50WG@ 1g/3ltr water at 10 days interval

TO2: Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Barrier crop Maize(3-row) + Need Based spraying of Neem oil 1500ppm@ 3ml/ltr & Thiamethoxam 25WG@ 5g/15ltr water at 10 days interval

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of pods/ plant | No. of seeds/pod | Test wt. (100 grain wt.) |
| FP: Spraying of Triazophos 40EC @ 2ml/lit water | 7 | 13.4 | 4.6 | 4.002g | 13.58 | 5.62 | 18980.00 | 28090.00 | 10250.00 | 1.48 |
| TO1: Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Need based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Flonicamid 50WG@ 1g/3ltr water at 10 days interval | 7 | 21.5 | 5.5 | 4.522g | 8.89 | 7.29 | 19700.00 | 36445.00 | 16890.00 | 1.85 |
| TO2: Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Barrier crop Maize(3-row) + Need Based spraying of Neem oil 1500ppm@ 3ml/ltr & Thiamethoxam 25WG@ 5g/15ltr water at 10 days interval | 7 | 19.7 | 5.0 | 3.875g | 9.89 | 7.10 | 20300.00 | 35525.00 | 14670.00 | 1.75 |

**Results:**

Seed treatment with Imidacloprid 600 FS (Gaucho)@ 7g/kg of seed + Installation of yellow sticky traps@ 100nos./ha + Need based alternate spraying of Neem oil 1500ppm@ 3ml/ltr & Flonicamid 50WG@ 1g/3ltr water at 10 days interval was best with B:C of 1.85

**OFT-9**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of intercropping of pulses in Acacia auriculiformis plantation** |
| 2. | Problem diagnosed | Inter spaces of acacia plantation are remain unutilised |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | FP: Mono cropping of acacia  TO1: Greengram will be sown within the inter rows of acacia of 0-2 year old plantation.  TO2: Blackgram will be sown within the inter rows of acacia of 0-2 year old plantation. |
| 4. | Source of Technology | AICRP, Agroforestry, OUAT, 2010 |
| 5. | Production system and thematic area | Agroforestry |
| 6. | Performance of the Technology with performance indicators | Plant height (acacia), no. of pods/plant, Yield of pulses (Kg/ha), B:C |
| 7. | Final recommendation for micro level situation | Yield of green gram is more than black gram and with a B:C ratio of 2.01 is recomended |
| 8. | Constraints identified and feedback for research | Irrigation is required at the time of flowering but irrigation facility is not available in most of the plantation |
| 9. | Process of farmers participation and their reaction | Farmers are deeply involved in the OFT process |

*Thematic area: Agroforestry*

Problem definition: Inter spaces of acacia plantation are remain unutilised

**Technology assessed:**

FP: Mono cropping of acacia

TO1: Greengram will be sown within the inter rows of acacia of 0-2 year old plantation.

TO2: Blackgram will be sown within the inter rows of acacia of 0-2 year old plantation.

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| Plant ht of acacia | No. of pods/plant | Test wt. (100 grain wt.) |
| FP: | 7 | .8m | - |  |  |  |  |  |  |  |
| TO1: | 7 | 1.2m | 38 |  |  | 4.64 | 11500 | 23200 | 11700 | 2.01 |
| TO2: | 7 | 1.2m | 32 |  |  | 4.20 | 11500 | 21000 | 10500 | 1.82 |

**Results: Cultivation of green gram as intercropping is best with B:C 2.01**

**OFT-10**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of long pepper and black pepper in Arecanut plantation** |
| 2. | Problem diagnosed | Mono-cropping of arecanut |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | FP: Mono cropping of arecanut  TO1: Long papper cuttings are planted below the Arecanut tree  TO2: Black parrer cuttings are planted blow the Arecanut tree |
| 4. | Source of Technology | KAU, Thrissur,2012 |
| 5. | Production system and thematic area | Agroforestry |
| 6. | Performance of the Technology with performance indicators | Plant height (acacia), no. of pods/plant, Yield of pulses (Kg/ha), B:C |
| 7. | Final recommendation for micro level situation | Continuing |
| 8. | Constraints identified and feedback for research |  |
| 9. | Process of farmers participation and their reaction |  |

*Thematic area:*

Problem definition:

**Technology assessed:**

FP: Mono cropping of arecanut

TO1: Long papper cuttings are planted below the Arecanut tree

TO2: Black parrer cuttings are planted blow the Arecanut tree

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of vines per plant | No. of fruitsor drups/vine | Test wt. (100 grain wt.) |
| FP: | 7 |  |  |  |  |  |  |  |  |  |
| TO1: | 7 | 5.3 | continuing |  |  |  |  |  |  |  |
| TO2: | 7 | 3.2 | continuing |  |  |  |  |  |  |  |

**Results: Continuing**

A. **Details of FLDs conducted during the year**

**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 | | |  |
|  |  |  |  |  |  | M | F | M | F | M | F | M | F | T |  |
| 1. 1. | Rice | INM | Soil test based fertilizer application of NPK + Basal Soil application of 25 kg Sulphur/ha | 2.0 | 2.0 | 2 | 0 | 0 | 0 | 8 | 0 | 10 | 0 | 10 |  |
| 1. 2. | Betel vine | INM | Foliar spraying of Triacontanol@500ppm at 30 days interval from 5th to7th month and zinc [sulphate @ 0.05%](mailto:sulphate@0.05%25) at 7th month | 1.0 | 1.0 | 3 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 10 |
| 1. 3. | Cucumber | INM | Foliar application of 25ppm boric acid + 1% urea as adjuvant thrice at 25 DAS, 35DAS and 45 DAS | 2.0 | 2.0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
| 1. 4. | Rice, Toria | Cropping system | Short duration (100 days) paddy var. Mandkini transplanted in the 1st fortnight of July followed by growing of toria var. Anuradha (75 days) in the residual moisture | 2 | 2 | 0 | 0 | 10 | 0 | 0 | 0 | 10 | 0 | 10 |
|  | Rice | Varietal evaluation | Cultivation of salt tolerant paddy variety Luna Sampad | 1 | 0.2 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |  |
|  | Rice | IWM | Early post emergence application of Bispyribac Sodium 10%SC (@ 250ml/ ha at 15 DAT (2-3 leaf stage of weeds) + Hand weeding on 45 DAT | 2 | 2 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Groundnut | IWM | Application of Imazethapyr (10%SL) @ 1ltr/ha at 7-14 days after sowing when the leaves are in 1-2 leaf stage which Selectively controls annual broad leaf and grassy weeds up to 45 days | 2 | 2 | 3 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 10 |  |
|  | Paddy | IPM | Nursery treatment with carbofuran 3G@ 1.5kg a.i./ha, + Pheromone trap @5Nos./ha for monitoring + Spraying of cartap hydrochloride 50WP @ 2ml/ltr at 2days after maximum trap catch and soil application of Rynaxypyr 4G@ 10kg/ha at 55DAT + thrice release of T. chilonis @ 50,000/ha 7days after each spraying | 1.0 | 1.0 | 2 | 0 | 0 | 0 | 8 | 0 | 10 | 0 | 10 |  |
|  | Paddy | IPM | Line showing with spacing 20cm x 15cm + alley ways at 6ft distance + Alternate drying and wetting + Alternate spraying of Flonicamid @ 0.3gm/lt followed by Buprofezin @2ml/ltr at 10 days interval | 1.0 | 1.0 | 2 | 0 | 0 | 0 | 8 | 0 | 10 | 0 | 10 |  |
|  | Bitter  gourd | IPM | Application of Chloropyriphos dust during earthing up@ 25kg/ha+ bait placement (2 ml Malathion+10gm jaggery+1lit water) @4lit/acre | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Okra | IPM | Release of *Trichogramma chillonis* @ 50000/ha, 5 times from 20 DAS at 7 days interval + alternate spraying of Neem oil 1500ppm@ 3ml/ltr water and Emamectin benzoate 5% SG @ 0.4 gram/per liter of water starting from 15DAS at 15 days interval | 1.0 | 1.0 | 3 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 10 |  |

**Details of farming situation**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil  (Kg/ha) | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
| N | P2O5 | K2O |
| Rice | Kharif 2018 | RF | Alluvial Sandy loam | 368 | 12.0 | 142 | Fallow | 01.07.18 | 25.11.18 | 965 | 41 |
| Betel vine | Rabi,2018-19 | Irrigated | Alluvial Sandy | 460 | 16.9 | 139 | Betel vine | 3rd year Baraj | Periodic harvesting | 430 | 17 |
| cucumber | Summer, 2019 | Irrigated | Alluvial Sandy loam | 392 | 15.4 | 158 | Rice | 25.1.18 | 5.5.18 | 330 | 13 |
| Bitter gourd | Kharif,2018 | Irrigated | Alluvial Sandy | 466 | 17.2 | 134 | Brinjal | 28.08.2018 | 05.12.2018 |  |  |
| Okra | Kharif,2018 | Irrigated | AlluvialSandy | 466 | 17.2 | 134 | Brinjal | 18.06.2018 | 15.10.2018 |  |  |
| Rice, toria | Kharif, 2018, Rabi, 2018-19 | Rainfed (Rice fallow) | Red laterite | 229 | 18 | 144 | Rice-fallow | Rice- 06.07.17  Toria- 12.10.18 | Rice- 20.10.17  Toria- 07.01.19 | 1450 | 49 |
| Rice | Kharif, 2018 | Irrigated | Saline soil | 273 | 16 | 158 | Rice | 20.07.18 | 11.12.18 | 1450 | 49 |
| Rice | Kharif, 2018 | Irrigated | Alluvial sandy loam | 265 | 19 | 153 | Rice | 28.06.18 | 24.11.18 | 408 | 14 |
| Groundnut | Rabi, 2018-19 | low lying flood prone area | Alluvial sandy loam | 291 | 18 | 169 | Rice | 4.01.2019 | 27.04.19 | 408 | 14 |

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 (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Toria | Cropping system | Growing of Toria as paira crop in rice fallow area | 10 | 2 | 44.94 | 32.7 | 37.43 | 48500 | 77650 | 29150 | 1.60 | 39000 | 57225 | 18225 | 1.46 |
| Groundnut | Weed management | Use of early post emergence herbicide  herbicide Imazethapyr | 10 | 2 | 22.7 | 18.4 | 23.36 | 42000 | 102150 | 60150 | 2.43 | 45000 | 82800 | 37800 | 1.84 |
| Toria | INM | Demonstration on Integrated nutrient management in Toria for improved seed yield | 10 | 02 | 7.9 | 5.6 | 41.7 | 16200 | 31600 | 15600 | 1.95 | 13000 | 22400 | 9400 | 1.72 |

\* 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 (Rs./ha) | | | | \*Economics of check  (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) | | | |
| Demons  ration | Check | Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Rice | INM | Sulphur application in transplanted Rice | 10 | 2.0 | 46.7 | 40.6 | 15.02 | EBT/Hill-11.8 | 8.9 | 44000 | 81725 | 37725 | 1.86 | 42500 | 71050 | 28550 | 1.67 |
| Betel vine | INM | Application of zinc and Triacontanol in betel vine | 10 | 1.0 | 52.9\* | 46.7 | 11.13 | Number of leaves / vine-53.7 | 45.2 | 1760000 | 2645000 | 885000 | 1.50 | 1756000 | 2380000 | 624000 | 1.36 |
| Cucumber | INM | Foliar application o f boron mixed with urea in cucumber | 10 | 2.0 | 240.8 | 210.6 | 14.34 | No. of fruits/ plant-10.5 | 8.2 | 65000 | 240800 | 1758000 | 3.70 | 63500 | 210600 | 147100 | 3.32 |
| Rice | Varietal evaluation | Cultivation of salt tolerant rice variety Luna Sampad | 5 | 0.2 | 42.7 | 35.1 | 21.65 | 10.4 (No. of EBT/hill) | 9.2 (No. of EBT/hill) | 43000 | 74725 | 31725 | 1.73 | 4150 | 61425 | 19925 | 1.48 |
| Rice | Weed management | Early post emergence application of Bispyribac Sodium herbicide | 10 | 2 | 47.1 | 41.8 | 12.67 | 6 % (Weed index) | 17 % (Weed index) | 43000 | 82425 | 39427 | 1.91 | 46000 | 73150 | 27150 | 1.59 |
| Paddy | Integrated Pest Management | Line showing with spacing 20cm x 15cm + alley ways at 6ft distance + Alternate drying and wetting + Alternate spraying of Flonicamid @ 0.3gm/lt followed by Buprofezin @2ml/ltr at 10 days interval | 10 | 1 | 48.2 | 39.9 | 20.80 | 11.5 EBT/Hill | 7.8 EBT/Hill | 40685 | 71200 | 30515 | 1.75 | 38770 | 62420 | 23650 | 1.61 |
| Okra | Integrated Pest Management | Release of *Trichogramma chillonis* @ 50000/ha, 5 times from 20 DAS at 7 days interval + alternate spraying of Neem oil 1500ppm@ 3ml/ltr water and Emamectin benzoate 5% SG @ 0.4 gram/per liter of water starting from 15DAS at 15 days interval | 10 | 1 | 182.17 | 139.52 | 30.57 | 4.59% fruit infestation | 11.72% fruit infestation | 74355 | 182170 | 107815 | 2.45 | 70464 | 139520 | 69056 | 1.98 |
| Bitter gourd | Integrated Pest Management | Application of Chloropyriphos dust during earthing up@ 25kg/ha+ bait placement (2 ml Malathion+10gm jaggery+1lit water) @4lit/acre | 10 | 1 | 143.4 | 112.5 | 27.47 | 3.6% fruit infestation | 12.8 % fruit infestation | 130360 | 286800 | 156440 | 2.20 | 121620 | 225000 | 103380 | 1.85 |
| Paddy | Integrated pest Management | Nursery treatment with carbofuran 3G@ 1.5kg a.i./ha, + Pheromone trap @5Nos./ha for monitoring + Spraying of cartap hydrochloride 50WP @ 2ml/ltr at 2days after maximum trap catch and soil application of Rynaxypyr 4G@ 10kg/ha at 55DAT + thrice release of T. chilonis @ 50,000/ha 7days after each spraying | 10 | 1 | 42.6 | 52.3 | 22.77 | 7.12% dead heart | 12.43% dead heart | 41275 | 73882 | 32607 | 1.79 | 39850 | 62963 | 23113 | 1,58 |
| turmeric | Agroforestry | Roma vatiety of turmeric are planted within the inter rows of acacia plantation at a spacing of 30cmx15 cm in raised bed | 10 | .4 | 132.5 | - | 132.5 | Avg. wt. of rhizome 177.78gm |  | 102500 | 397500 | 29500 | 3.87 |  |  |  |  |
| Acacia auriculiformis | Agroforestry | Plantation of Acacia auriculiformis with 2mx 2m spacing in waste land | 10 | .6 | continuing |  |  | Growth of tree: 1 cm dia  Height of tree: 1.2mt |  | 22500 |  |  |  |  |  |  |  |
| Date palm | Production technology | Sap will be collected from date palm plants during December to March, respectively followed by preparation of jaggery | 10 | 10 plants | 122kg of jiggery /plant | - | 122 | Nectar jagary ratio 0.12 | - | 3800 | 18300 | 14500 | 4.8 | 2800 | 9800 | 7000 | 3.5 |
|  | Total | |  |  |  | | | | | | | | | | | | |

\*Leaf yield-lakhs/ha.

Livestock

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic  area | Name of the technology demonstrated | No. of Farmer | No. of units | Major parameters (ABW in KG) | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| Demons  ration | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Dairy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cow |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Buffalo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry | Income generation activities for empowerment of rural Women | Backyard rearing of poultry breed Rainbow roaster | 10 | 200 | 2.3 | 0.7 | 228 |  |  | 120 | 345 | 225 | 2.8 | 100 | 175 | 75 | 1.75 |
| Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

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.) | | | |
| Demons  ration | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Common carps |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Total | |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

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 | | | |
| Demons  ration | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Oyster mushroom | Cultivation of oyster mushroom -Hypsizygousulmarious(blue oyster) | 2 | 100 | Yield per bed 3.8kg | Yield per bed-2.7kg | 40.7 |  |  | 45/- | 152/- | 107/- | 3.3 | 45/- | 108/- | 63/- | 2.4 |
| Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apiculture | Scientific bee keeping | 5 |  | Bee colonies per box |  |  |  |  |  |  |  |  |  |  |  |  |
| Lac | Demonstration of Kumarsumi lac in ber trees | 10 | 15 | Lac yield | B:C ratio | 0 | - | - | 150/plant | continuing |  |  | 0 | 0 | 0 | 0 |
| 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 |  |  |  |  |  |
| Other women |  |  |  |  |  |
| Children |  |  |  |  |  |
| Neonatal |  |  |  |  |  |
| Infants |  |  |  |  |  |

Farm implements and machinery

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of the implement | Crop | Name of the technology demonstrated | No. of Farmer | Area (ha) | Filed observation (output/man hour) | | % change in major parameter | Labor reduction (man days) | | | | Cost reduction (Rs./ha or Rs./Unit) | | | |
| Demons  ration | Check |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

**\*\* BCR= GROSS RETURN/GROSS COST**

Demonstration details on crop hybrids

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Name of Hybrid | No. of  farmers | Area  (ha) | Yield (kg/ha) / major parameter | | | Economics (Rs./ha) | | | |
| Cereals |  |  |  | Demo | Local check | % change | Gross Cost | Gross Return | Net Return | BCR |
| Bajra |  |  |  |  |  |  |  |  |  |  |
| Maize |  |  |  |  |  |  |  |  |  |  |
| Paddy |  |  |  |  |  |  |  |  |  |  |
| Sorghum |  |  |  |  |  |  |  |  |  |  |
| Wheat |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Oilseeds |  |  |  |  |  |  |  |  |  |  |
| Castor |  |  |  |  |  |  |  |  |  |  |
| Mustard |  |  |  |  |  |  |  |  |  |  |
| Safflower |  |  |  |  |  |  |  |  |  |  |
| Sesame |  |  |  |  |  |  |  |  |  |  |
| Sunflower |  |  |  |  |  |  |  |  |  |  |
| Groundnut |  |  |  |  |  |  |  |  |  |  |
| Soybean |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Pulses |  |  |  |  |  |  |  |  |  |  |
| Greengram |  |  |  |  |  |  |  |  |  |  |
| Blackgram |  |  |  |  |  |  |  |  |  |  |
| Bengalgram |  |  |  |  |  |  |  |  |  |  |
| Redgram |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Vegetable crops |  |  |  |  |  |  |  |  |  |  |
| Bottle gourd |  |  |  |  |  |  |  |  |  |  |
| Capsicum |  |  |  |  |  |  |  |  |  |  |
| Cucumber |  |  |  |  |  |  |  |  |  |  |
| Tomato |  |  |  |  |  |  |  |  |  |  |
| Brinjal |  |  |  |  |  |  |  |  |  |  |
| Okra |  |  |  |  |  |  |  |  |  |  |
| Onion |  |  |  |  |  |  |  |  |  |  |
| Potato |  |  |  |  |  |  |  |  |  |  |
| Field bean |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Commercial crops |  |  |  |  |  |  |  |  |  |  |
| Cotton |  |  |  |  |  |  |  |  |  |  |
| Coconut |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |
| Fodder crops |  |  |  |  |  |  |  |  |  |  |
| Napier (Fodder) |  |  |  |  |  |  |  |  |  |  |
| Maize (Fodder) |  |  |  |  |  |  |  |  |  |  |
| Sorghum (Fodder) |  |  |  |  |  |  |  |  |  |  |
| Others (pl. specify) |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |

Technical Feedback on the demonstrated technologies

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Crop** | **Feed Back** |
|  | Rice | As there is wide spread problem of iron toxicity in Kharif rice massive awareness campaign is required |
|  | Betel vine | Due to application of Triacontanol and zinc , the betel vine plant withstand cold temperature in addition to better growth of plants |
|  | Cucumber | Foliar spray of boron and urea helps in better fruits setting in cucumber and should also be tested in other cucurbitaceous crops |
|  | Rice, Toria | It reduces the cost of cultivation drastically by omitting the primary land preparation with optimum utilization of the residual soil moisture and avoid terminal drought stress |
|  | Rice | Replacement of local rice variety by salt tolerant rice variety Luna Sampad significantly increases the grain yield in saline affected areas |
|  | Rice | This post emergence herbicide effectively control a wide range of weeds in rice crop including sedges and broad leaf weeds |
|  | Groundnut | This early post emergence herbicide control BLWs and grasses including cyperus |
|  | Bitter gourd | Use of baits for fruit fly management decreased fruit infestation upto 3.60% |
|  | Okra | Application of the IPM module could reduce the fruit damage per cent from 11.72% to 4.59% |
|  | Paddy | Use of new geration insecticides and proper prescribes management tools increased yield 39.9q /ha to 48.2 q/ha |

**Extension and Training activities under FLD**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Activity | Date | No. of activities organized | Number of participants | Remarks |
| 1. | Field days | 29.03.2019 | 01 | 50 | Field Day on “backyard rearing of rainbow rooster” |
| 2. | Farmers Training | 05.09.18 | 01 | 30 | “Integrated Management of fruit borer in Okra” |
| 31.10.18 | 01 | 30 | “Integrated Management of BPH/WBPH in Paddy” |
|  |  | 09.11.18 | 01 | 30 | “Integrated Management of Fruit fly in Bitter gourd” |
| 3. | Media coverage | - | - | - | - |
| 4. | Training for extension functionaries | - | - | - | - |

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif, 2018 and Rabi 2018-19:**

**CLUSTER FRONTLINE DEMONSTRATION OF RABI Pulses (Green Gram & Black Gram) (2018-19) PERFORMANCE DATA**

1. **Name of KVK:** Balasore **2. Year of establishment:** 1983
2. **Host Institution:** OUAT, Bhubaneswar  **4. Address:** Debhog, Baliapal, Balasore

**5. District:** Balasore **6. State:** Odisha

**7. Performance of the demonstration:**

**Performance of the demonstration under CFLD on Pulse Crops during Rabi 2018-19:**

1. **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 |
|  | Green gram | Kali muga | 5.2 | 454 | 476 | 737 | IPM-02-14 | 100 | 40 | 8.54 | 5.3 | 7.3 | +50.88 | +43.90 | -7.59 |
|  | Black Gram | Lahabiri | 4.9 | 448 | 455 | 724 | PU-31 | 75 | 30 | 8.46 | 5.1 | 6.9 | +51.56 | 49.23 | -6.62 |

1. **Economic parameters**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Variety demonstrated & Technology demonstrated | Farmer’s Existing plot | | | | Demonstration plot | | | |
| 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 | Green gram (IPM-02-14) | 16,400 | 28,600 | 12,200 | 1.7 | 19,120 | 40,150 | 21,036 | 2.09 |
| 2 | Black gram (PU-31) | 16320 | 26950 | 10630 | 1.6 | 19110 | 37950 | 18840 | 1.98 |

1. **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 (Man days/house hold) |
| 1 | Green Gram  (IPM-02-14) | 750 | 540 | 55/- | 135 | 75 | To mitigate daily requirement and investment for next crop etc. | 43 |
| 2 | Black gram  (PU-31) | 690 | 520 | 55/- | 120 | 50 | To mitigate daily requirement and investment for next crop etc. | 32 |

1. **Pulses Farmers’ 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 | Package demonstration | Best suited after Kharif Paddy | Application of Rhizobium culture & Boron | Yes | No | Yes | Critical input should be available in local market |
| 2 | Package demonstration | Best suited after Kharif Paddy | Application of zinc & Boron | Yes | No | Yes | Critical input should be available in local market |

1. **Specific Characteristics of Technology and Performance**

|  |  |  |  |
| --- | --- | --- | --- |
| **Specific Characteristic** | **Performance** | **Performance of Technology vis-a vis Local Check** | **Farmers Feedback** |
| Green Gram   * IPM-02-14, the demonstrated variety is resistant to YVMV * Line sowing * Seed inoculation with Rhizobium culture | * YVMV infestation is vey less * Better plant growth, weed control and pod picking is easier * The size as well as the number of nodules are increased | * The local check is very susceptible to YVMV * Difficulty in weeding and picking of pods * Nodule number and size was less in the plant, where seed was not treated with rhizobium culture | * The variety perform better yield due to less infestation of YVMV * The cost of cultivation increases * Bio-fertilizers are not locally available in the market |
| Black gram Var. PU-31 is moderately tolerant to YMV. | * Use of Rhizobium culture for seed treatment enhanced nodulation which helps in nitrogen fixation and increased yield. * Application of micronutrients Borax (10.5%) and Zinc sulphate (21%) enhanced flowering and pod setting * Application of neem oil (1500ppm) and sticky trap successfully reduced the menance of whitefly incidence * Spraying of newer insecticide molecule Fipronil 5%SC (GABA gated chloride channel inhibitor) @ 2mli/lit suppressed pod borer complex and leaf eating caterpillars. | * With the application of this said technology incidence of whitefly (YMV vector), pod borer complex were reduced as compared to the incidence in local variety. * Yield of the demonstrated variety increased upto an average of 6.9q/ha as compared to the local variety of 4.9 q/ha | * Farmers are satisfied with the technology stating it to be simple, effective and highly impressive. * The given pest management practices are quite effective in controlling the pod borer complex and YMV. * Non availability of bio fertilizers in the local market |

1. **Extension activities under FLD conducted:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Extension Activities organized** | **Date and place of activity** | **Number of farmer attended** |
| 01 | Training | - | - |
| - | - |
| 02 | Field day | - | - |
| - | - |

1. **Sequential good quality photographs (as per crop stages i.e. growth & development): -**
2. **Farmers' training photographs: -**
3. **Quality Action Photographs of field visits/field days and technology demonstrated: attached in .rar format**

**J. Details of budget utilization**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop  (provide crop wise information ) | Items | Budget  Received  (Rs.) | Budget  Utilization (Rs.) | Balance  (Rs.) |
| Green Gram | i) Critical input |  | 259844 |  |
| ii) TA/DA/POL etc. for monitoring | 3000 |
| iii) Extension Activities (Field day) |  |
| iv)Publication of literature |  |
|  | Total | 262844 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop  (provide crop wise information ) | Items | Budget  Received (Rs.) | Budget  Utilization  (Rs.) | Balance  (Rs.) |
| Black Gram | i) Critical input |  | 199454 |  |
| ii) TA/DA/POL etc. for monitoring | 2875 |
| iii) Extension Activities (Field day) |  |
| iv)Publication of literature |  |
|  | Total | 202329 |

**K. List of Farmer under FLD (Crop wise)**

**Crop1: Green gram**

**Details of technology:**

* + 1. Line sowing
    2. Certified Seed of Green gram Var. IPM-02-14@ 20kg/ha
    3. Seed Treatment with Vitavax Power@ 2g/kg of seed before one week of sowing followed by treatment with Rhizobium@20g per Kg seed before 3-4 hours of sowing and PSB.
    4. Foliar spray of Boron (20% Boron) @ 1.5g per water at flowering stage
    5. Protective Foliar spraying of neem oil (3000ppm)@ 2ml per liter water at vegetative stage
    6. Foliar spraying of Fipronil 5%SC@ 2ml per litre water at pod formation stage for pod borer Management
    7. Use of yellow Sticky Trap@ 20 nos. per hectare for white fly management
    8. Foliar spraying of DAP@ 2% at 30 DAS for better vegetative growth and root development
    9. Foliar spray of wettable Sulphur @3g per litre for powdery mildew management

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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(kg/ac) | Demo. Yield (q/ha) | | | Yield of local check q/ha | % increase |
|  |  |  |  |  |  | Latitude | Longitude |  | **(N-P2O5-K2O)**  **kg/ha** |  |  |  | H | L | A |  |  |
| Kartika Chandra Mallik | Anadi Mallik | Ganja | Baliapal | 8599879838 |  | N21°36´20.76´´ | E087°10´49.42´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Dolagabinda Mallik | Purustam Mallik | Ganja | Baliapal | 7205510434 |  | N21°36´20.76´´ | E087°10´49.42´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Rabindra Patra | Kangali Patra | Ganja | Baliapal | 9178604290 |  | N21°36´20.76´´ | E087°10´49.42´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Umakanta Santra | Kedar Santara | Ganja | Baliapal |  |  | N21°36´20.76´´ | E087°10´49.42´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Chaitanya Hatei | Kursna Hatei | Ganja | Baliapal |  |  | N21°36´20.76´´ | E087°10´49.42´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Sripati Hatei | Kursna Hetei | Ganja | Baliapal | 9114102472 |  | N21°36´20.76´´ | E087°10´49.42´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Birendra Santra | Natha Santara | Ganja | Baliapal |  |  | N21°36´20.44´´ | E087°10´48.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Tapas Ponda | Purna Chandra Ponda | Ganja | Baliapal |  |  | N21°36´20.44´´ | E087°10´48.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Laxmi Kanta Santara | Kedara Nath Santara | Ganja | Baliapal |  |  | N21°36´20.44´´ | E087°10´48.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Pitambra Samanta | Vajahari Samanta | Ganja | Baliapal | 9777204726 |  | N21°36´20.44´´ | E087°10´48.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Ranjit Mohanty | Surendra Mohanty | Ganja | Baliapal |  |  | N21°36´20.44´´ | E087°10´48.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Uttam Santara | Bangali Santara | Ganja | Baliapal |  |  | N21°36´20.44´´ | E087°10´48.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Biswamber Samal | Sontas Kumar Samal | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Ananda Kumar Das | Subal Kumar das | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Gangadhar Jena | Madhusudan Jena | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Jagadis Patra | Jogeswar Patra | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Tapan Kumar Patra | Jageswar Patra | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Binod Bihari Das | Subal Kumar das | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Nityananda Dey | Adikanta Dey | Ganja | Baliapal |  |  | N21°36´25.74´´ | E087°10´49.20´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Jagadabananda Dey | Adikanta Dey | Ganja | Baliapal |  |  | N21°36´25.74´´ | E087°10´49.20´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Brajalishor Jena | Bansi jena | Ganja | Baliapal |  |  | N21°36´25.74´´ | E087°10´49.20´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Prabhas Behera | Makara Behera | Ganja | Baliapal |  |  | N21°36´25.74´´ | E087°10´49.20´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Laxmi Priya Ponda | Purna Chandra Ponda | Ganja | Baliapal |  |  | N21°36´25.74´´ | E087°10´49.20´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Srikanta Patra | Upendra Patra | Ganja | Baliapal |  |  | N21°36´25.74´´ | E087°10´49.20´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Uttam Kumar Mohanty | Surendra Mohanty | Ganja | Baliapal |  |  | N21°36´25.74´´ | E087°10´49.20´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Kanaka Jena | Bhagabat Jena | Ganja | Baliapal |  |  | N21°36´35.27´´ | E087°10´46.59´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Minakhi Jena | Baikunyha Jena | Ganja | Baliapal |  |  | N21°36´35.27´´ | E087°10´46.59´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Monaranjan Patra | Jageswar Patra | Ganja | Baliapal |  |  | N21°36´35.27´´ | E087°10´46.59´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Mamina Samanta | Bhajahari Samanta | Ganja | Baliapal |  |  | N21°36´35.27´´ | E087°10´46.59´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Debabrata Patra | Ajaya Kumar Patra | Ganja | Baliapal |  |  | N21°36´35.27´´ | E087°10´46.59´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Mayadhr Mallik | Hadibandhu Mallik | Ganja | Baliapal |  |  | N21°36´35.27´´ | E087°10´46.59´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Sanjay Das | Bina Charan Das | Ganja | Baliapal |  |  | N21°36´25.88´´ | E087°10´49.34´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Ramakanta Santra | Kedar Santra | Ganja | Baliapal | 9178255265 |  | N21°36´25.88´´ | E087°10´49.34´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Batakrusna Santara | Rakhal Santra | Ganja | Baliapal |  |  | N21°36´25.88´´ | E087°10´49.34´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Nabakrusna Jena | Mukunda Jena | Ganja | Baliapal |  |  | N21°36´25.88´´ | E087°10´49.34´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Shahadev Santara | Gouranga Santra | Ganja | Baliapal |  |  | N21°36´25.88´´ | E087°10´49.34´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Sukadev Santara | Gouranga Santra | Ganja | Baliapal |  |  | N21°36´25.88´´ | E087°10´49.34´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Mantu Santara | Dhananjay santra | Ganja | Baliapal |  |  | N21°36´28.73´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Gokulananda Das | Baina Charan Das | Ganja | Baliapal | 7894114295 |  | N21°36´28.73´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Shasanka Sekhar Panda | Lambadar Panda | Ganja | Baliapal |  |  | N21°36´28.73´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Sudhansu Sekhar Das | Sudam das | Ganja | Baliapal |  |  | N21°36´28.73´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Ranjan Hatei | Bhima Charan Hatei | Ganja | Baliapal |  |  | N21°36´28.73´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Arjun Pattayat | Natha Pattauat | Ganja | Baliapal |  |  | N21°36´28.73´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Akhya Mohanty | Bhaskar Mohanty | Ganja | Baliapal | 9040010498 |  | N21°36´28.89´´ | E087°10´47.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Mohan Mohanty | Bhaskara Mohanty | Ganja | Baliapal | 9124145856 |  | N21°36´28.89´´ | E087°10´47.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Sachitananda Das | Sudam das | Ganja | Baliapal |  |  | N21°36´28.89´´ | E087°10´47.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Subas Das | Sanatan das | Ganja | Baliapal |  |  | N21°36´28.89´´ | E087°10´47.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Niranjan Patra | Kali cHaran Patra | Ganja | Baliapal |  |  | N21°36´28.89´´ | E087°10´47.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Ranjit Samanta | Vajahari Samanta | Ganja | Baliapal |  |  | N21°36´28.89´´ | E087°10´47.54´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.7 | 5.5 | 7.5 | 5.2 | 44 |
| Pranati Mahana | Narendra Mahana | R.R Pur | Jaleswar | 9348845801 |  | N21°76´35.85´´ | E087°21´87.61´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Jayanti Das | Khagendra Das | R.R Pur | Jaleswar | 9178024547 |  | N21°76´35.85´´ | E087°21´87.61´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Sabita Mahana | Birendra Mahana | R.R Pur | Jaleswar | 7682961838 |  | N21°76´35.85´´ | E087°21´87.61´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Lilabati Mahana | Debendra Mahana | R.R Pur | Jaleswar | 9583135373 |  | N21°76´35.85´´ | E087°21´87.61´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Damayanti Mahana | Gajendra Mahana | R.R Pur | Jaleswar | 9556056896 |  | N21°76´35.85´´ | E087°21´87.61´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Bidubhusan Kanunga | Sashi Kanunga | R.R Pur | Jaleswar | 9556922013 |  | N21°76´35.85´´ | E087°21´87.61´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Sanjaya Kumar Das | Bhanu Das | R.R Pur | Jaleswar | 8018071399 |  | N21°76´35.53´´ | E087°21´87.35´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Bijaya Kumar Das | Trilokya Das | R.R Pur | Jaleswar |  |  | N21°76´35.53´´ | E087°21´87.35´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Naba Kumar Das | Trilokya Das | R.R Pur | Jaleswar |  |  | N21°76´35.53´´ | E087°21´87.35´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Sitikanta choudhury | Lalmohan Das | R.R Pur | Jaleswar | 8018748461 |  | N21°76´35.53´´ | E087°21´87.35´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Uttam Das | Shiba Das | R.R Pur | Jaleswar | 9938397847 |  | N21°76´35.53´´ | E087°21´87.35´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Rama Shankar Das | Daitari Das | R.R Pur | Jaleswar |  |  | N21°76´35.53´´ | E087°21´87.35´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Arabinda Das | Naba Das | R.R Pur | Jaleswar |  |  | N21°76´35.33´´ | E087°21´87.76´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Dinabandhu Mohanty | Bijay Das | R.R Pur | Jaleswar |  |  | N21°76´35.33´´ | E087°21´87.76´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Santosh Ponda | Tritha Ponda | R.R Pur | Jaleswar |  |  | N21°76´35.33´´ | E087°21´87.76´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Prafulla Behera | Trilokya Behera | R.R Pur | Jaleswar |  |  | N21°76´35.33´´ | E087°21´87.76´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Prakash Behera | Surendra Behera | R.R Pur | Jaleswar |  |  | N21°76´35.33´´ | E087°21´87.76´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Sanjukuta Das | Arabinda Das | R.R Pur | Jaleswar | 9090131400 |  | N21°76´35.33´´ | E087°21´87.76´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Manashi Rani Das | Ananta Das | R.R Pur | Jaleswar | 6360263048 |  | N21°76´35.78´´ | E087°21´87.26´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Trilochan Das | Rajendra Das | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´87.26´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Jamini Bhusan Kanunga | Sashi Kanunga | R.R Pur | Jaleswar | 9114797794 |  | N21°76´35.78´´ | E087°21´87.26´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Dharmeswari Rout | Gouranga Rout | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´87.26´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Radharani Rout | Rabindra Rout | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´87.26´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Alladi Murmu | Ramesh Murmu | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´87.26´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Ranjan Das | Bhanu Das | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´87.26´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.6 | 5.3 | 7.3 | 5.2 | 40 |
| Bhaskar Chandra Das | Shirdhar Dal | Chhatbati | Bahanaga | 9937459696 |  | N21°14´23.58´´ | E086°46´17.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Pravakar Biswal | Shyamasundar Biswal | Chhatbati | Bahanaga | 9337954264 |  | N21°14´23.58´´ | E086°46´17.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Gayadhr Nayak | Guruprasad Nayak | Chhatbati | Bahanaga | 9337145827 |  | N21°14´23.58´´ | E086°46´17.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Ratnakar Biswal | Shyamasundar Biswal | Chhatbati | Bahanaga | 9090274070 |  | N21°14´23.58´´ | E086°46´17.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Basnta Kumar Biswal | Chaitanya Biswal | Chhatbati | Bahanaga | 7377954144 |  | N21°14´23.58´´ | E086°46´17.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Prasanta Biswal | Chaitanya Biswal | Chhatbati | Bahanaga | 6371279723 |  | N21°14´23.58´´ | E086°46´17.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Shankarsan Biswal | Judhistira Biswal | Chhatbati | Bahanaga |  |  | N21°14´24.44´´ | E086°46´40.52´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Trilochan Biswal | Shankarsan Biswal | Chhatbati | Bahanaga |  |  | N21°14´24.44´´ | E086°46´40.52´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Budhiram Sahu | Nidhiram Biswal | Chhatbati | Bahanaga |  |  | N21°14´24.44´´ | E086°46´40.52´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Sanjay Sahu | Manmath Biswal | Chhatbati | Bahanaga |  |  | N21°14´24.44´´ | E086°46´40.52´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Rames Biswal | Upendra Biswal | Chhatbati | Bahanaga |  |  | N21°14´24.44´´ | E086°46´40.52´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Benudhar Biswal | Krushna Biswal | Chhatbati | Bahanaga | 7735476566 |  | N21°14´24.44´´ | E086°46´40.52´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Nirmal Sahoo | Banamali Biswal | Bankeswarpur | Bahanaga | 9090680933 |  | N21°13´12.04´´ | E086°47´13.97´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Sabitri Sahoo | Shankarsan Sahoo | Bankeswarpur | Bahanaga | 9090220180 |  | N21°13´12.04´´ | E086°47´13.97´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Bisnu Mohan Sahoo | Guruprasad Sahoo | Bankeswarpur | Bahanaga |  |  | N21°13´12.04´´ | E086°47´13.97´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Ganesh Chandra Sahoo | Guruprasad Sahoo | Bankeswarpur | Bahanaga |  |  | N21°13´12.04´´ | E086°47´13.97´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Jayanta Kumar Sahoo | Kasinath Sahoo | Bankeswarpur | Bahanaga |  |  | N21°13´12.04´´ | E086°47´13.97´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Kasinatha Sahoo | Guruprasad Sahoo | Bankeswarpur | Bahanaga |  |  | N21°13´12.04´´ | E086°47´13.97´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Manaranjan Sahoo | Bishunu Mahan Sahoo | Bankeswarpur | Bahanaga |  |  | N21°13´12.04´´ | E086°47´13.97´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Kailas Chandra Sahoo | Guruprasd Sahoo | Bankeswarpur | Bahanaga | 9439399474 |  | N21°13´12.52´´ | E086°47´15.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |
| Ajay Sahoo | Haribihari Sahoo | Bankeswarpur | Bahanaga | 8339946466 |  | N21°13´12.52´´ | E086°47´15.51´´ | Yes | 20-40-40 |  | IPM-02-14 | 8 | 8.4 | 5.2 | 7.2 | 5.2 | 38 |

1. **Crop 2 – Black gram**

**Details of technology:**

* Use of certified variety PU-31
* Seed treatment with Rhizobium culture @ 20g/kg seed and PSB
* Soil application of Borax (10.5%) @4kg/Ac
* Soil application of Zinc sulphate (21%) @ 10kg/Ac
* Foliar spraying of DAP@ 2% at 30 DAS for better vegetative growth and root development
* Plant protection measures:
* Application of neem oil (1500ppm) @3/lit from 45 DAS at 15 days interval
* Installation of yellow sticky traps @ 10 nos. per Acre for controlling whitefly.
* Need based spraying of Fipronil5%SC @ 2mli/lit for the management of pod borer complex and leaf eating caterpillars.
* Foliar spray of wettable Sulphur @3g per litre for powdery mildew management

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of farmer** | **Father’sname** | **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(kg/acre)** | **Demo. Yield (q/ha)** | | | **Yield of local check q/ha** | **% increase** |
|  |  |  |  |  |  | **Latitude** | **Longitude** |  | **(N-P2O5-K2O)**  **kg/ha** |  |  |  | **H** | **L** | **A** |  |  |
| Madhab Chandra Mallik | Dusasan Mallik | Ganja | Baliapal | 7077937440 |  | N21°36´18.24´´ | E087°10´40.83´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Susanta Kumar Patra | Rajendra Patra | Ganja | Baliapal | 9938733200 |  | N21°36´18.24´´ | E087°10´40.83´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Prasana Kumar Patra | Debendra Nath Patra | Ganja | Baliapal |  |  | N21°36´18.24´´ | E087°10´40.83´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Hariprasad Hatei | Krusna Hatei | Ganja | Baliapal |  |  | N21°36´18.24´´ | E087°10´40.83´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Kabita Santara | Kedar Nath Santra | Ganja | Baliapal | 9178604290 |  | N21°36´18.24´´ | E087°10´40.83´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Laxmikanta Santara | Gouranga Santara | Ganja | Baliapal | 9090226816 |  | N21°36´18.24´´ | E087°10´40.83´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Pasupati Hatei | Brahmananda Hatei | Ganja | Baliapal |  |  | N21°36´12.52´´ | E087°10´36.11´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Mantu Mahanto | Dhananjaya Mahanto | Ganja | Baliapal |  |  | N21°36´12.52´´ | E087°10´36.11´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Subas Santara | Kedar Nath Santara | Ganja | Baliapal | 7077931710 |  | N21°36´12.52´´ | E087°10´36.11´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Kartika Jena | Baikuntha Jena | Ganja | Baliapal |  |  | N21°36´12.52´´ | E087°10´36.11´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Dhurba Jena | Ananta Kumar Jena | Ganja | Baliapal | 9178255265 |  | N21°36´12.52´´ | E087°10´36.11´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Keshabanda Dey | Adikanta Dey | Ganja | Baliapal | 7381580900 |  | N21°36´12.52´´ | E087°10´36.11´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Kanhu Charn Jena | Madhusudan Jena | Ganja | Baliapal | 9777294104 |  | N21°36´15.37´´ | E087°10´46.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Vasudev Mallik | Gopinath Mallik | Ganja | Baliapal | 9556409889 |  | N21°36´15.37´´ | E087°10´46.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Charubala Patra | Ajaya Patra | Ganja | Baliapal |  |  | N21°36´15.37´´ | E087°10´46.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Rajlishor Panda | Purna Chandra Panda | Ganja | Baliapal | 9938148291 |  | N21°36´15.37´´ | E087°10´46.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Kartik Naik | Bharat Naik | Ganja | Baliapal |  |  | N21°36´15.37´´ | E087°10´46.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Pradeep Ku. Behera | Baidhara Behera | Ganja | Baliapal |  |  | N21°36´15.37´´ | E087°10´46.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Brundaban Patra | Banamali Patra | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Annupurna Dey | Ananta Kumar Dey | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Gyanaranjan Dey | Adikananda Dey | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Radha Ranjan Jena | Jagyeswar Jena | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Khitis Patra | Surendra Patra | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Sanjaya Das | Baina Charan Das | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Ramakanta Santra | Kedara Santra | Ganja | Baliapal |  |  | N21°36´15.82´´ | E087°10´47.32´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.6 | 5.2 | 7.1 | 4.9 | 44 |
| Narendra Mahana | Nakfudi Mahana | R.R Pur | Jaleswar | 9090469826 |  | N21°76´36.17´´ | E087°20´87.15´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Khagendra Das | Kali Das | R.R Pur | Jaleswar | 6371731617 |  | N21°76´36.17´´ | E087°20´87.15´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Birendra Mahana | Nakfudi Mahana | R.R Pur | Jaleswar |  |  | N21°76´36.17´´ | E087°20´87.15´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Rabindra Das | Laxman Das | R.R Pur | Jaleswar |  |  | N21°76´36.17´´ | E087°20´87.15´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Karunakar Sahoo | Nagendra Sahoo | R.R Pur | Jaleswar |  |  | N21°76´36.17´´ | E087°20´87.15´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Nagendra Sahoo | Banamali Sahoo | R.R Pur | Jaleswar |  |  | N21°76´36.17´´ | E087°20´87.15´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Girijasankar Pradhan | Kunja Pradhan | R.R Pur | Jaleswar |  |  | N21°76´36.38´´ | E087°20´87.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Gajendra Mahana | Nakfudi Mahana | R.R Pur | Jaleswar |  |  | N21°76´36.38´´ | E087°20´87.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Sambhunath Jena | Sitaram Mahana | R.R Pur | Jaleswar |  |  | N21°76´36.38´´ | E087°20´87.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Subal Mahana | Nakfudi Mahana | R.R Pur | Jaleswar |  |  | N21°76´36.38´´ | E087°20´87.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Ajay Das | Uday Das | R.R Pur | Jaleswar | 6370231976 |  | N21°76´36.38´´ | E087°20´87.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Debendra Mahana | Nakfudi Mahana | R.R Pur | Jaleswar | 8658200910 |  | N21°76´36.38´´ | E087°20´87.25´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Baidya Rout | Murali Rout | R.R Pur | Jaleswar | 9668391924 |  | N21°76´36.87´´ | E087°20´87.45´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Nagen Rout | Natha Rout | R.R Pur | Jaleswar |  |  | N21°76´36.87´´ | E087°20´87.45´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Trilochan Rout | Rama Rout | R.R Pur | Jaleswar | 7606993885 |  | N21°76´36.87´´ | E087°20´87.45´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Barendra Das | Kali Das | R.R Pur | Jaleswar | 9114845641 |  | N21°76´36.87´´ | E087°20´87.45´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Harendra Das | Kali Das | R.R Pur | Jaleswar |  |  | N21°76´36.87´´ | E087°20´87.45´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Satyabrata Patra | Manmath Patra | R.R Pur | Jaleswar |  |  | N21°76´36.87´´ | E087°20´87.45´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Shusanta Das | Laxman Das | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´88.42´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Khagendra Mahana | Sachindra Mahana | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´88.42´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Harinarayan Mandal | Nityananda Mandal | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´88.42´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Fagu Murmu | Bangra Murmu | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´88.42´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Shyamsundra Hasda | Kanhu Murmu | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´88.42´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Rajendra Hasda | Kanhu Murmu | R.R Pur | Jaleswar |  |  | N21°76´35.78´´ | E087°21´88.42´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Mangal Kisku | Jhapal Kisku | R.R Pur | Jaleswar | 8117894887 |  | N21°76´36.15´´ | E087°21´88.73´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Khagendra Sahoo | Kanhu Sahoo | R.R Pur | Jaleswar | 7978996742 |  | N21°76´36.15´´ | E087°21´88.73´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Gouranga Sahoo | Nilakantha Sahoo | R.R Pur | Jaleswar |  |  | N21°76´36.15´´ | E087°21´88.73´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Bhagaaban Sahoo | Thakur Sahoo | R.R Pur | Jaleswar |  |  | N21°76´36.15´´ | E087°21´88.73´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Bharat Mohanty |  | R.R Pur | Jaleswar |  |  | N21°76´36.15´´ | E087°21´88.73´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Bhagaban Sahoo | Kanhu Sahoo | R.R Pur | Jaleswar |  |  | N21°76´36.15´´ | E087°21´88.73´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Manuranjan Rout | Rama Rout | R.R Pur | Jaleswar |  |  | N21°76´36.55´´ | E087°21´88.86´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Nitai Rout | Murali Rout | R.R Pur | Jaleswar |  |  | N21°76´36.55´´ | E087°21´88.86´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Harish Rout | Jadu Rout | R.R Pur | Jaleswar | 9583837429 |  | N21°76´36.55´´ | E087°21´88.86´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Jyotis Rout | Natha Rout | R.R Pur | Jaleswar |  |  | N21°76´36.55´´ | E087°21´88.86´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Sanjaya Das | Ramesh Rout | R.R Pur | Jaleswar | 8658060229 |  | N21°76´36.55´´ | E087°21´88.86´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Nanigopal Das | Umes Das | R.R Pur | Jaleswar |  |  | N21°76´36.55´´ | E087°21´88.86´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Rajendra Das | Nilakantha Das | R.R Pur | Jaleswar |  |  | N21°76´36.26´´ | E087°21´88.65´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Gouranga Rout | Kunja Rout | R.R Pur | Jaleswar |  |  | N21°76´36.26´´ | E087°21´88.65´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Aloka Kanunga | Jamini Kanunga | R.R Pur | Jaleswar | 9437292457 |  | N21°76´36.26´´ | E087°21´88.65´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Harisankar Das | Sanatan Das | R.R Pur | Jaleswar | 9556023136 |  | N21°76´36.26´´ | E087°21´88.65´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Chandra Sekhar Das | Sanatan Das | R.R Pur | Jaleswar |  |  | N21°76´36.26´´ | E087°21´88.65´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Guruprasd Mohanty | Prem Rout | R.R Pur | Jaleswar |  |  | N21°76´36.26´´ | E087°21´88.65´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Dhananjya Pal | Kali Pal | R.R Pur | Jaleswar |  |  | N21°76´36.48´´ | E087°21´88.54´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Ratnakar Behera | Ganesh Behera | R.R Pur | Jaleswar |  |  | N21°76´36.48´´ | E087°21´88.54´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Purna Chandra Mohanty | Narendra Mohanty | R.R Pur | Jaleswar |  |  | N21°76´36.48´´ | E087°21´88.54´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Sashi Bhusan Kanunga | Gadadhar Kanunga | R.R Pur | Jaleswar |  |  | N21°76´36.48´´ | E087°21´88.54´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Sushamita Das | Sanjay Das | R.R Pur | Jaleswar | 9178533259 |  | N21°76´36.48´´ | E087°21´88.54´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Bisweswar Kanunga | Jageswar Sahoo | R.R Pur | Jaleswar | 9437174059 |  | N21°76´36.48´´ | E087°21´88.54´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Namita Pattanayak | Radha Pattanyak | R.R Pur | Jaleswar | 9937865576 |  | N21°76´36.16´´ | E087°21´88.76´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |
| Ananta Das | Rajendra Das | R.R Pur | Jaleswar | 9348845801 |  | N21°76´36.16´´ | E087°21´88.76´´ | Yes | 20-40-40 |  | PU-31 | 8 | 8.3 | 5.1 | 6.8 | 4.9 | 38 |

* 1. **Achievements on Training (Including the sponsored and FLD training programmes):**

1. **Farmers and farm women (on 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 |
| **I. Crop Production** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Resource Conservation Technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cropping Systems |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Crop Diversification |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Fodder production |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, (cultivation of crops ) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Skill development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Yield increment |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Off-season vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation (Green Houses, Shade Net etc.) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any (Cultivation of Vegetable) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any(INM) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil and Water Conservation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil and Water Testing | **01** | **17** | **9** | **26** | **4** | **0** | | **4** | **0** | **0** | **0** | **21** | **9** | **30** |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Feed management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any Goat farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Design and development of low/minimum cost diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Income generation activities for empowerment of rural Women |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Location specific Drudgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Capacity building |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care | **1** | **0** | **30** | **0** | **0** | **0** | | **0** | **0** | **0** | **0** | **0** | **30** | **30** |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VI. Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | **01** | **26** | **0** | **26** | **4** | **0** | | **4** | **0** | **0** | **0** | **30** | **0** | **30** |
| Integrated Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Bio-control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **VIII. Fisheries** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture & fish disease |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Inputs at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| XI Agro-forestry |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **TOTAL** | **3** | **43** | **39** | **52** | **8** | | **0** | **8** | **0** | **0** | **0** | **51** | **39** | **90** |

**B) Rural Youth (on 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 | 1 | 13 | 04 | 17 | 0 | | 03 | 03 | 0 | 0 | 0 | 13 | 07 | 20 |
| Bee-keeping |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated farming | 1 | 10 | 9 | 19 | 1 | | 0 | 1 | 0 | 0 | 0 | 11 | 9 | 20 |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation of vegetable crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Commercial fruit production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Nursery Management of Horticulture crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Training and pruning of orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Dairying |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sheep and goat rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Quail farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rabbit farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Poultry production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Ornamental fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Para vets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Para extension workers | 01 | 16 | 2 | 18 | 2 | | 0 | 2 | 0 | 0 | 0 | 18 | 2 | 20 |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Cold water fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small scale processing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Tailoring and Stitching |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL | **3** | **39** | **15** | **54** | **3** | | **3** | **6** | **0** | **0** | **0** | **42** | **18** | **60** |

**C) Extension Personnel (on 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 |
| Productivity enhancement in field crops | 1 | 8 | 0 | 8 | 3 | | 0 | 3 | 3 | 0 | 3 | 14 | 0 | 14 |
| Value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 02 | 29 | 2 | 31 | 3 | | 0 | 3 | 4 | 2 | 6 | 36 | 4 | 40 |
| Integrated Nutrient management | 01 | 11 | 3 | 14 | 4 | | 0 | 4 | 2 | 0 | 2 | 17 | 3 | 20 |
| Rejuvenation of old orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization | 01 | 19 | 0 | 19 | 0 | | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 19 |
| Information networking among farmers | 01 | 17 | 3 | 20 | 0 | | 0 | 0 | 0 | 0 | 0 | 17 | 3 | 20 |
| Capacity building for ICT application |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Management in farm animals |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Women and Child care | 2 | 0 | 25 | 0 | 0 | | 05 | 05 | 0 | 10 | 10 | 0 | 40 | 40 |
| Low cost and nutrient efficient diet designing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Agroforestry | 1 | 8 | 3 | 11 | 0 | | 0 | 0 | 2 | 0 | 2 | 10 | 3 | 13 |
| TOTAL | **9** | **92** | **36** | **103** | **10** | | **5** | **15** | **11** | **12** | **23** | **113** | **53** | **166** |

**D) Farmers and farm women (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 |
| **I. Crop Production** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Weed Management | 1 | 29 | 0 | 29 | 1 | 0 | | 1 | 0 | 0 | 0 | 30 | 0 | 30 |
| Resource Conservation Technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cropping Systems | 1 | 16 | 14 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Crop Diversification |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management | 5 | 68 | 6 | 74 | 25 | 21 | | 46 | 14 | 16 | 30 | 107 | 43 | 150 |
| Fodder production |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, (cultivation of crops ) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Skill development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Yield increment |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Off-season vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation (Green Houses, Shade Net etc.) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any (Cultivation of Vegetable) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any(INM) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil and Water Conservation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 02 | 52 | 0 | 52 | 8 | 0 | | 8 | 0 | 0 | 0 | 60 | 0 | 60 |
| Production and use of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of Problematic soils | 01 | 16 | 2 | 18 | 11 | 1 | | 12 | 0 | 0 | 0 | 27 | 3 | 30 |
| Micro nutrient deficiency in crops | 02 | 30 | 18 | 48 | 12 | 0 | | 12 | 0 | 0 | 0 | 42 | 18 | 60 |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil and Water Testing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Feed management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any Goat farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 1 | 0 | 30 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 30 | 30 |
| Design and development of low/minimum cost diet | 1 | 0 | 30 | 30 | 0 | 0 | | 0 | 0 | 0 | 30 | 0 | 30 | 30 |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing | 1 | 0 | 19 | 19 | 0 | 11 | | 11 | 0 | 0 | 0 | 0 | 30 | 30 |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Income generation activities for empowerment of rural Women | 3 | 0 | 60 | 60 | 0 | 0 | | 60 | 0 | 30 | 30 | 0 | 90 | 90 |
| Location specific Drudgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Capacity building |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VI. Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | 08 | 76 | 53 | 129 | 25 | 13 | | 38 | 55 | 18 | 73 | 156 | 84 | 240 |
| Integrated Disease Management | 01 | 0 | 0 | 0 | 6 | 24 | | 30 | 0 | 0 | 0 | 6 | 24 | 30 |
| Bio-control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **VIII. Fisheries** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture & fish disease |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Inputs at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics | 2 | 26 | 21 | 47 | 9 | | 4 | 13 | 0 | 0 | 0 | 35 | 25 | 60 |
| Formation and Management of SHGs | 1 | 4 | 26 | 30 | 0 | | 0 | 0 | 0 | 0 | 0 | 4 | 26 | 30 |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths | 2 | 30 | 0 | 30 | 0 | | 0 |  | 18 | 12 | 30 | 48 | 12 | 60 |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| XI Agro-forestry |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies | 2 | 29 | 1 | 30 | 0 | | 0 | 0 | 30 | 0 | 0 | 59 | 1 | 60 |
| Nursery management | 1 | 12 | 16 | 28 | 1 | | 1 | 2 | 0 | 0 | 0 | 13 | 17 | 30 |
| Integrated Farming Systems | 2 | 18 | 2 | 0 | 0 | | 0 | 0 | 28 | 2 | 30 | 56 | 4 | 60 |
| **XII. Others (Pl. Specify)** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **TOTAL** | **37** | **406** | **298** | **684** | **98** | | **75** | **233** | **145** | **78** | **223** | **673** | **437** | **1110** |

**E) RURAL YOUTH (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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bee-keeping |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation of vegetable crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Commercial fruit production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Nursery Management of Horticulture crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Training and pruning of orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Dairying |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sheep and goat rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Quail farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rabbit farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Poultry production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Ornamental fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Para vets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Para extension workers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Cold water fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small scale processing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Tailoring and Stitching |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |

**F) Extension Personnel (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 |
| Productivity enhancement in field crops |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management in farm animals |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women and Child care |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Crop intensification |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |

**G) Consolidated table (ON and OFF Campus)**

**i. Farmers & Farm Women**

| 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 |
| **I. Crop Production** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Weed Management | **1** | **29** | **0** | **29** | **1** | **0** | | **1** | **0** | **0** | **0** | **30** | **0** | **30** |
| Resource Conservation Technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cropping Systems | **1** | **16** | **14** | **30** | **0** | **0** | | **0** | **0** | **0** | **0** | **30** | **0** | **30** |
| Crop Diversification |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management | **5** | **68** | **6** | **74** | **25** | **21** | | **46** | **14** | **16** | **30** | **107** | **43** | **150** |
| Fodder production |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, (cultivation of crops ) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Skill development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Yield increment |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Off-season vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Exotic vegetables like Broccoli |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation (Green Houses, Shade Net etc.) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any (Cultivation of Vegetable) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any(INM) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management | **02** | **52** | **0** | **52** | **8** | **0** | | **8** | **0** | **0** | **0** | **60** | **0** | **60** |
| Soil and Water Conservation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Nutrient Management | **01** | **16** | **2** | **18** | **11** | **1** | | **12** | **0** | **0** | **0** | **27** | **3** | **30** |
| Production and use of organic inputs | **02** | **30** | **18** | **48** | **12** | **0** | | **12** | **0** | **0** | **0** | **42** | **18** | **60** |
| Management of Problematic soils |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil and Water Testing | **01** | **17** | **9** | **26** | **4** | **0** | | **4** | **0** | **0** | **0** | **21** | **9** | **30** |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Feed management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any (Goat farming) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | **1** | **0** | **30** | **30** | **0** | **0** | | **0** | **0** | **0** | **0** | **0** | **30** | **30** |
| Design and development of low/minimum cost diet | **1** | **0** | **30** | **30** | **0** | **0** | | **0** | **0** | **0** | **30** | **0** | **30** | **30** |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing | **1** | **0** | **19** | **19** | **0** | **11** | | **11** | **0** | **0** | **0** | **0** | **30** | **30** |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Enterprise development |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Income generation activities for empowerment of rural Women | **3** | **0** | **60** | **60** | **0** | **0** | | **60** | **0** | **30** | **30** | **0** | **90** | **90** |
| Location specific Dr.udgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Capacity building |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care | **1** | **0** | **30** | **0** | **0** | **0** | | **0** | **0** | **0** | **0** | **0** | **30** | **30** |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VI. Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | **9** | **102** | **53** | **155** | **29** | **13** | | **42** | **55** | **18** | **73** | **186** | **84** | **270** |
| Integrated Disease Management | **01** | **0** | **0** | **0** | **6** | **24** | | **30** | **0** | **0** | **0** | **6** | **24** | **30** |
| Bio-control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **VIII. Fisheries** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture & fish disease |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Inputs at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics | 2 | 26 | 21 | 47 | 9 | | 4 | 13 | 0 | 0 | 0 | 35 | 25 | 60 |
| Formation and Management of SHGs | 1 | 4 | 26 | 30 | 0 | | 0 | 0 | 0 | 0 | 0 | 4 | 26 | 30 |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths | 2 | 30 | 0 | 30 | 0 | | 0 |  | 18 | 12 | 30 | 48 | 12 | 60 |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **XI Agro-forestry** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies | 2 | 26 | 21 | 47 | 9 | | 4 | 13 | 0 | 0 | 0 | 35 | 25 | 60 |
| Nursery management | 1 | 4 | 26 | 30 | 0 | | 0 | 0 | 0 | 0 | 0 | 4 | 26 | 30 |
| Integrated Farming Systems |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| TOTAL | 2 | 30 | 0 | 30 | 0 | | 0 |  | 18 | 12 | 30 | 48 | 12 | 60 |
| **XII. Others (Pl. Specify)** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **TOTAL** | **40** | **445** | **313** | **738** | **101** | | **78** | **239** | **145** | **78** | **223** | **715** | **455** | **1170** |

**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 | 1 | 13 | 04 | 17 | 0 | 03 | 03 | 0 | 0 | 0 | 13 | | 07 | 20 |
| Bee-keeping |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Integrated farming | 1 | 10 | 9 | 19 | 1 | 0 | 1 | 0 | 0 | 0 | 11 | | 9 | 20 |
| Seed production |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| 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 implements |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Nursery Management of Horticulture crops |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Training and pruning of orchards |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Production of quality animal products |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Dairying |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Sheep and goat rearing |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Quail farming |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Piggery |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Rabbit farming |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Poultry production |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Ornamental fisheries |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Para vets |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Para extension workers |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Freshwater prawn culture | 01 | 16 | 2 | 18 | 2 | 0 | 2 | 0 | 0 | 0 | 18 | | 2 | 20 |
| 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 |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Enterprise development |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Others if any (ICT application in agriculture) |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| TOTAL | **3** | **39** | **15** | **54** | **3** | **3** | **6** | **0** | **0** | **0** | **42** | | **18** | **60** |

**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 |
| Productivity enhancement in field crops | 1 | 8 | 0 | 8 | 3 | 0 | 3 | 3 | 0 | 3 | 14 | | 0 | 14 |
| Integrated Pest Management | 02 | 29 | 2 | 31 | 3 | 0 | 3 | 4 | 2 | 6 | 36 | | 4 | 40 |
| Integrated Nutrient management | 01 | 11 | 3 | 14 | 4 | 0 | 4 | 2 | 0 | 2 | 17 | | 3 | 20 |
| Rejuvenation of old orchards |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Protected cultivation technology |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Formation and Management of SHGs |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Group Dynamics and farmers organization | 01 | 19 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | | 0 | 19 |
| Information networking among farmers |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Capacity building for ICT application | 01 | 17 | 3 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | | 3 | 20 |
| Care and maintenance of farm machinery and implements |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| WTO and IPR issues |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Management in farm animals |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Livestock feed and fodder production |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Household food security |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Women and Child care | 2 | 0 | 25 | 0 | 0 | 05 | 05 | 0 | 10 | 10 | 0 | | 40 | 40 |
| Low cost and nutrient efficient diet designing |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Crop intensification |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Agroforestry | 1 | 8 | 3 | 11 | 0 | 0 | 0 | 2 | 0 | 2 | 10 | | 3 | 13 |
| TOTAL | **9** | **92** | **36** | **103** | **10** | **5** | **15** | **11** | **12** | **23** | **113** | | **53** | **166** |

## 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 | FW | Cultivation practices of salt tolerant paddy varieties | 1 | Off campus | 11 | 19 | 30 | 11 | 19 | 30 |
| Agronomy | FW | Integrated nutrient management in transplanted rice | 1 | Off campus | 27 | 3 | 30 | 8 | 2 | 10 |
| Agronomy | FW | Integrated weed management in direct seeded rice | 1 | Off campus | 30 | 0 | 30 | 1 | 0 | 1 |
| Agronomy | FW | Contingent crop planning | 1 | Off campus | 29 | 1 | 30 | 4 | 0 | 4 |
| Agronomy | FW | Cropping intensification in rice fallow areas | 1 | Off campus | 16 | 14 | 30 | 0 | 0 | 0 |
| Agronomy | FW | Production technology of oilseed crops | 1 | Off campus | 14 | 16 | 30 | 14 | 16 | 30 |
| Agronomy | FW | Use of bio-fertilizers in pulses | 1 | Off campus | 26 | 4 | 30 | 2 | 0 | 2 |
| Agronomy | RY | Integrated Farming System | 2 | On campus | 11 | 9 | 20 | 1 | 0 | 1 |
| Agronomy | IS | Rice fallow: An option for improving production of Pulses and Oilseeds | 3 | On campus | 14 | 0 | 14 | 3 | 3 | 6 |
| Home Sc. | FW | Strategies for improving nutritional status of farm women | 1 | On campus | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc. | FW | Production technology of Paddy straw mushroom | 1 | Off campus | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc. | FW | Preparation of low cost diet for pre-schoolers | 1 | Off campus | 0 | 30 | 30 | 0 | 30 | 30 |
| Home Sc. | FW | Maximizing Nutrient retention during food processing | 1 | Off campus | 0 | 30 | 30 | 0 | 11 | 11 |
| Home Sc. | FW | Oyster mushroom cultivation | 1 | Off campus | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc. | FW | Nutritional gardening for nutritional security | 1 | Off campus | 0 | 30 | 30 | 0 | 30 | 30 |
| Home Sc. | FW | Healthcare for backyard poultry | 1 | Off campus | 0 | 30 | 30 | 0 | 30 | 30 |
| Home Sc. | IS | Strategies to prevent malnutrition & to improve nutritional status of children | 2 | On campus | 0 | 20 | 20 | 0 | 13 | 13 |
| Home Sc. | IS | Dietary guidelines for pregnant lactating mother | 2 | On campus | 0 | 20 | 20 | 0 | 2 | 2 |
| Home Sc. | RY | Mushroom cultivation | 4 | On campus | 13 | 7 | 20 | 0 | 3 | 3 |
| Soil Sc. | FW | Importance of soil testing and method of soil sample collection | 1 | Oncampus | 21 | 9 | 30 | 4 | 0 | 4 |
| Soil Sc. | FW | Micro and secondary nutrient application in transplanted rice | 1 | Off campus | 30 | 0 | 30 | 12 | 0 | 12 |
| Soil Sc. | FW | Management of acid soils | 1 | Off campus | 27 | 3 | 30 | 11 | 1 | 12 |
| Soil Sc. | FW | Integrated nutrient management in pulse crops | 1 | Off campus | 30 | 0 | 0 | 6 | 0 | 6 |
| Soil Sc. | FW | Integrated nutrient management in betel vine | 1 | Off campus | 30 | 0 | 30 | 2 | 0 | 2 |
| Soil Sc. | FW | Use of micronutrients in vegetable crops | 1 | Off campus | 12 | 18 | 30 | 0 | 0 | 0 |
| Soil Sc. | IS | Site specific nutrient management | 2 | On campus | 17 | 3 | 20 | 6 | 0 | 6 |
| Plant protection | FW | Integrated management of fruit and shoot borer in brinjal | 1 | Off campus | 27 | 3 | 30 | 12 | 1 | 13 |
| Plant protection | FW | Integrated disease management in paddy | 1 | Off campus | 24 | 6 | 30 | 24 | 6 | 30 |
| Plant protection | FW | Integrated management of fruit borer in okra | 1 | Off campus | 30 | 0 | 30 | 9 | 0 | 9 |
| Plant protection | FW | Safe use of pesticides | 1 | Off campus | 14 | 16 | 30 | 14 | 16 | 30 |
| Plant protection | FW | Integrated management of BPH/ WBPH in paddy | 1 | Off campus | 30 | 0 | 30 | 14 | 0 | 14 |
| Plant protection | FW | Integrated management of fruit fly in bitter gourd | 1 | Off campus | 19 | 11 | 30 | 3 | 0 | 3 |
| Plant protection | FW | Integrated management of DBM in cabbage and cauliflower | 1 | Off campus | 15 | 15 | 30 | 2 | 6 | 8 |
| Plant protection | FW | Integrated management of YMV in green gram | 1 | On campus | 30 | 0 | 30 | 4 | 0 | 4 |
| Plant protection | FW | Integrated pset management in mustard | 1 | Off campus | 10 | 20 | 30 | 10 | 20 | 30 |
| Plant protection | FW | Integrated management of stored grain pests | 1 | Off campus | 26 | 4 | 30 | 4 | 0 | 4 |
| Plant protection | IS | Integrated pest management in vegetables | 2 | On campus | 18 | 2 | 20 | 3 | 0 | 3 |
| Plant protection | IS | Recent advances in storage pest management | 2 | On campus | 18 | 2 | 20 | 9 | 0 | 9 |
| Plant protection | RY | To creat para extension personnel in the field of plant protection | 3 | On campus | 18 | 02 | 20 | 2 | 0 | 2 |
| Forestry | FW | Tree based integrated farming system | 1 | Off campus | 29 | 01 | 30 | 0 | 0 | 0 |
| Forestry | FW | Nursery technology for raising quality planting material of forest crop | 1 | Off campus | 13 | 17 | 30 | 1 | 1 | 2 |
| Forestry | FW | Package practice of acacia auriculiformis in wasteland | 1 | Off campus | 30 | 0 | 30 | 30 | 0 | 30 |
| Forestry | FW | Wadi model of Agroforestry | 1 | Off campus | 29 | 1 | 30 | 29 | 1 | 30 |
| Forestry | FW | Cultivation of long pepper & Balck pepper under Arecanut & coconut plantation for additional income generation & sustainable management of plantation area | 1 | Off campus | 29 | 1 | 30 | 0 | 0 | 0 |
| Forestry | IS | Agroforestry models for effective land utilization & forest management | 2 | On campus | 10 | 3 | 13 | 2 | 0 | 2 |
| Ag.Extension | FW | Alternate livliehood option for resource poor family | 1 | Off campus | 30 | 18 | 12 | - | 30 | 30 |
| Ag.Extension | FW | Use of ITK in Agriculture | 1 | Off campus | 30 | 19 | 11 | 1 | 8 | 9 |
| Ag.Extension | FW | Role and Responsibilities of SHG | 1 | Off campus | 30 | 4 | 26 | - | - | - |
| Ag.Extension | FW | Formation and management of Farmers club | 1 | Off campus | 30 | 30 | - | - | - | - |
| Ag.Extension | FW | Sustainable Agricultural practices | 1 | Off campus | 30 | 16 | 14 | 4 | - | - |
| Ag.Extension | IS | Market-Led Extension | 2 | On campus | 20 | 19 | - | - | - | - |
| Ag.Extension | IS | PRA Technology | 2 | On campus | 20 | 17 | 3 | 1 | 2 | 3 |

## H) Vocational training programme 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 else where |
| Male | Female | Total | Type of units | Number  of units | Number of persons employed |  |
| - | - | - | - | - | - | - | - | - | - | - |

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

I) Sponsored Training Programmes

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No | Title | Thematic area | Month | Duration (days) | Client | No. of courses | No. of Participants | | | | | | | | | | Sponsoring Agency |
|  |  | PF/RY/EF | Male | | | Female | | | Total | | | |
|  | Others | SC | ST | Others | SC | ST | Others | SC | ST | Total |  |
|  | Agrotechniques for paddy cultivation | ICM | July, 2018 | 02 | RY | 08 | 25 | 5 | 0 | 0 | 0 | 0 | 25 | 5 | 0 | 30 | ATMA, Balasore |
|  | Integrated Pest Management | IPM | July, 2018 | 02 | RY | 08 | 25 | 5 | 0 | 0 | 0 | 0 | 25 | 5 | 0 | 30 | ATMA, Balasore |
|  | Mushroom Cultivation | Income Generation | August, 2018 | 02 | RY | 08 | 25 | 0 | 1 | 3 | 0 | 1 | 28 | 0 | 2 | 30 | ATMA, Balasore |
|  | Profitable Betel vine cultivation | INM | August, 2018 | 02 | RY | 08 | 28 | 1 | 1 | 0 | 0 | 0 | 28 | 1 | 1 | 30 | ATMA, Balasore |
|  | Techniques of vermiculture & vermicomposting | Production of organic inputs | August, 2018 | 02 | RY | 08 | 27 | 3 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 30 | ATMA, Balasore |
|  | Organic Farming | Organic Farming | March, 2019 | 07 | RY | 24 | 14 | 1 | 0 | 0 | 0 | 0 | 14 | 1 | 0 | 15 | Ministry of agriculture & Farmers welfare, GoI |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Nature of Extension Activity | No. of activities | Farmers | | | | Extension Officials | | | Total | | | |
| M | F | T | SC/ ST  (% of total) | Male | Female | Total | Male | Female | Total | |
| Field Day | - |  |  |  |  |  |  |  |  |  | |  |
| KisanMela | - |  |  |  |  |  |  |  |  |  | |  |
| KisanGhosthi | - |  |  |  |  |  |  |  |  |  | |  |
| Exhibition | - |  |  |  |  |  |  |  |  |  | |  |
| Film Show | 30 | 400 | 240 | 640 | 10 | 90 | 50 | 140 | 490 | 290 | | 780 |
| Method Demonstrations | 35 | 690 | 300 | 990 | 15 | 15 | 5 | 20 | 705 | 305 | | 1010 |
| Farmers Seminar | - |  |  |  |  |  |  |  |  |  | |  |
| Workshop | - | - | - | - |  |  |  |  |  |  | |  |
| Group meetings | 10 | 310 | 40 | 350 | 12 | 25 | 7 | 32 | 335 | 47 | | 382 |
| Lectures delivered as resource persons | 40 | 950 | 250 | 1200 | 35 | 60 | 20 | 80 | 1010 | 270 | | 1280 |
| Advisory Services | 88 | 60000 | 27312 | 87312 | 40 | 1200 | 300 | 1500 | 61200 | 27612 | | 88812 |
| Scientific visit to farmers field | 380 | 320 | 60 | 380 | 25 | 20 | 10 | 30 | 340 | 80 | | 420 |
| Farmers visit to KVK | - | 880 | 384 | 1264 | 30 | 10 | 6 | 14 | 890 | 390 | | 1280 |
| Diagnostic visits | 45 | 400 | 96 | 496 | 15 | 14 | 6 | 20 | 414 | 102 | | 516 |
| Exposure visit | 02 | 60 | 0 | 60 | 10 | 12 | 3 | 15 | 72 | 3 | | 75 |
| Ex-trainees Sammelan | - |  |  |  |  |  |  |  |  |  | |  |
| Soil health Camp | - |  |  |  |  |  |  |  |  |  | |  |
| Animal Health Camp | - |  |  |  |  |  |  |  |  |  | |  |
| Agri mobile clinic | - |  |  |  |  |  |  |  |  |  | |  |
| Soil test campaigns | 02 | 90 | 10 | 100 | 10 | 10 | 0 | 10 | 100 | 10 | | 110 |
| Farm Science Club Conveners meet | - |  |  |  |  |  |  |  |  |  | |  |
| Self Help Group Conveners meetings | - |  |  |  |  |  |  |  |  |  | |  |
| MahilaMandals Conveners meetings | - |  |  |  |  |  |  |  |  |  | |  |
| Celebration of important days (specify) |  |  |  |  |  |  |  |  |  |  | |  |
| Web-telecast of interaction of Hon’ble PM of India with Farmers | 01 | 80 | 20 | 100 | 20 | 04 | 01 | 05 | 84 | 21 | | 105 |
| Web-telecast of interaction of Hon’ble PM of India with Farmers of SHGs & Women Group | 01 | 60 | 0 | 60 | 25 | 02 | 01 | 03 | 62 | 01 | | 63 |
| Swatchta Hi Sewa | 10 | 350 | 80 | 430 | 10 | 13 | 7 | 20 | 363 | 87 | | 450 |
| MahilaKisan Divas | 01 | 0 | 50 | 50 | 20 | 05 | 0 | 05 | 05 | 55 | | 60 |
| World food day | - |  |  |  |  |  |  |  |  |  | |  |
| Jai Vigyan jai kissan | - |  |  |  |  |  |  |  |  |  | |  |
| World soil day | 01 | 205 | 45 | 250 | 10 | 30 | 20 | 50 | 235 | 65 | | 300 |
| Agriculture education day | - |  |  |  |  |  |  |  |  |  | |  |
| World meteorology day | - |  |  |  |  |  |  |  |  |  | |  |
| Farmer’s day (Akshya tritiya) | 01 | 30 | 20 | 50 | 10 | 15 | 10 | 25 | 45 | 30 | | 75 |
| Total | **647** | **64825** | **28907** | **93732** | **297** | **1525** | **446** | **1969** | **66350** | **29368** | | **95718** |

B. **Other Extension activities**

|  |  |
| --- | --- |
| Nature of Extension Activity | No. of activities |
|
| Newspaper coverage | 18 |
| Radio talks | 2 |
| TV talks | 12 |
| Popular articles | 2 |
| Extension Literature | 7 |
| Other, if any | - |

* 1. **a. Production and supply of Technological products**

***Village seed***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Variety | Quantity of seed  (q) | Value  (Rs) | No. of farmers involved in village seed production | Number of farmers  to whom seed provided | | | |
|  |  |  |  |  | SC | ST | Other | Total |
| Total |  |  |  |  |  |  |  |  |

# *KVK farm*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Variety | Quantity of seed (q) | Value (Rs) | Number of farmersto whom seed provided | | | |
|  |  |  |  | SC | ST | Other | Total |
| **Tomato** | Utkal Kumari | 1.28 | 720 | 6 | 4 | 9 | 19 |
| **Red Cabbage** | - | 0.12 | 120 | 10 | 4 | 40 | 54 |
| **Cherry Tomato** | - | 0.29 | 250 | 8 | 7 | 15 | 30 |
| **Broccoli** | Solar Green | 0.52 | 340 | 5 | 3 | 37 | 45 |
| **Cauliflower** | Pusa Himjyoti | 3.58 | 1570 | 4 | 3 | 20 | 27 |
| **Cabbage** | Pusa Synthetic | 2.96 | 1450 | 10 | 2 | 40 | 52 |
| Grand Total |  | **8.75** | **4450** | **43** | **23** | **161** | **227** |

# Production of planting materials by the KVKs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Variety | No. of planting materials | Value  (Rs) | Number of farmers  to whom planting material provided | | | |
| **Vegetable seedlings** |  | | | SC | ST | Other | Total |
| Cauliflower | Pusa Himjyoti | 3100 | 1240 | 15 | 10 | 15 | 40 |
| Cabbage | Pusa Synthetic | 2700 | 1080 | 10 | 8 | 15 | 33 |
| Tomato | Utkal Kumari | 2400 | 960 | 5 | 5 | 25 | 35 |
| Brinjal | Utkal Tarini | 2200 | 880 | 12 | 6 | 22 | 40 |
| Chilli |  |  |  |  |  |  |  |
| Onion |  |  |  |  |  |  |  |
| Broccoli | Solan Green | 2100 | 840 | 6 | 2 | 26 | 34 |
| Red Cabbage | - | 900 | 360 | 4 | 3 | 23 | 30 |
| Cherry Tomato |  | 500 | 200 | 10 | 0 | 15 | 25 |
| **Fruits** |  |  |  |  |  |  |  |
| Mango |  |  |  |  |  |  |  |
| Guava |  |  |  |  |  |  |  |
| Lime |  |  |  |  |  |  |  |
| Papaya | Pusa Nanha | 537 | 10740 | 15 | 10 | 30 | 55 |
| Banana |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |
| Ornamental plants (Inca) |  |  |  |  |  |  |  |
| Medicinal and Aromatic | Long Pepper | 200 | 2000 | 4 | 2 | 4 | 10 |
| Plantation | Mehgani | 40 | 400 | 2 | 3 | 5 | 10 |
| Spices |  |  |  |  |  |  |  |
| Turmeric |  |  |  |  |  |  |  |
| Tuber | Odisha Elite | 71kg | 2130 | 12 | 4 | 16 | 32 |
| Elephant yams | Gajendra | 38kg | 1520 | 6 | 6 | 15 | 27 |
| Fodder crop saplings |  |  |  |  |  |  |  |
| Forest Species | Acacia | 1715 | 10290 | 8 | 7 | 14 | 29 |
| Others, pl.specify |  |  |  |  |  |  |  |
| Total |  |  | **32640** | **109** | **66** | **225** | **400** |

**Production of Bio-Products**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name of product | Quantity | Value (Rs.) | No. of Farmers benefitted | | | |
| Kg |
|  |  |  | SC | ST | Other | Total |
| Bio-fertilizers |  |  |  |  |  |  |
| Bio-pesticide |  |  |  |  |  |  |
| Bio-fungicide |  |  |  |  |  |  |
| Bio-agents |  |  |  |  |  |  |
| Others, please specify. |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |

# Production of livestock materials

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers benefitted | | | | | |
|  |  |  |  | SC | ST | | Other | | Total |
| Dairy animals |  |  |  |  |  | |  | |  |
| Cows |  |  |  |  |  | |  | |  |
| Buffaloes |  |  |  |  |  | |  | |  |
| Calves |  |  |  |  |  | |  | |  |
| Others (Pl. specify) |  |  |  |  |  | |  | |  |
| Small ruminants |  |  |  |  | |  | |  |  |
| Sheep |  |  |  |  | |  | |  |  |
| Goat |  |  |  |  | |  | |  |  |
| Other, please specify |  |  |  |  | |  | |  |  |
| Poultry |  |  |  |  | |  | |  |  |
| Broilers |  |  |  |  | |  | |  |  |
| Layers |  |  |  |  | |  | |  |  |
| Duals (broiler and layer) | Rainbow rooster, Kadaknath | 1266 | 83400 | 35 | | 25 | | 190 | 250 |
| Japanese Quail |  |  |  |  | |  | |  |  |
| Turkey |  |  |  |  | |  | |  |  |
| Emu |  |  |  |  | |  | |  |  |
| Ducks |  |  |  |  | |  | |  |  |
| Others (Pl. specify) |  |  |  |  | |  | |  |  |
| Piggery |  |  |  |  | |  | |  |  |
| Piglet |  |  |  |  | |  | |  |  |
| Hog |  |  |  |  | |  | |  |  |
| Others (Pl. specify) |  |  |  |  | |  | |  |  |
| Fisheries |  |  |  |  | |  | |  |  |
| Indian carp |  |  |  |  | |  | |  |  |
| Exotic carp |  |  |  |  | |  | |  |  |
| Mixed carp |  |  |  |  | |  | |  |  |
| Fish fingerlings |  |  |  |  | |  | |  |  |
| Spawn | Paddy Straw, Oyster | 390 | 4680 | 30 | | 20 | | 40 | 90 |
| Others (Pl. specify) |  |  |  |  | |  | |  |  |
| Grand Total |  | **1656** | **88080** | **65** | | **45** | | **230** | **340** |

**3.5. b. Seed Hub Programme-*“Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India” –* No seed hub at KVK, Balasore**

i) Name of Seed Hub Centre:

|  |  |
| --- | --- |
| Name of Nodal Officer : | - |
| Address : | - |
| e-mail : | - |
| Phone No. : Mobile : | - |

ii) Quality Seed Production Reports

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Season | Crop | Variety | Production (q) | | | |
| Target | Area sown (ha) | Production | Category of Seed  (F/S, C/S) |
| Kharif 2018 | - | - | - | - | - | - |
| Rabi 2018-19 | - | - | - | - | - | - |
| Summer/Spring 2019 | - | - | - | - | - | - |

iii) Financial Progress

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fund received  (2016-17 and 2017-18) | Expenditure (Rs. in lakhs) | | Unspent balance  (Rs. in lakhs) | Remarks |
| Infrastructure | Revolving fund |
| 2016-17 | - | - | - | - |
| 2017-18 | - | - | - |  |

IV) Infrastructure Development

|  |  |
| --- | --- |
| Item | Progress |
| Seed processing unit |  |
| Seed storage structure |

3.6.

(A) **Literature Developed/Published (with full title, author & reference)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Title** | **Author’s name** | **Number** | **Circulation** |
| Research paper | - | - | - | - |
| Seminar/conference/ symposia papers | - | - | - | - |
| Books | - | - | - |  |
| Bulletins | - | - | - |  |
| News letter | Shyamala | KVK, Balasore | 1 | 500 |
| Popular Articles | - | - | - | - |
| Book Chapter | - | - | - | - |
| Extension Pamphlets/ literature | Sweet corn cultivation, mushroom cultivation, value addition of ushroom | KVK, Balasore | 7 | 3500 |
| Technical reports | - | - | - | - |
| Electronic Publication (CD/DVD etc) | Success story | KVK, Balasore | 1 | 1 |
| TOTAL |  |  | 9 | 4001 |

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:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of programme** | **Name of course** | **Name of KVK personnel and designation** | **Date and Duration** | **Organized by** |
| 1 | Capacity Building Programme | Soil and water management | Scientist  (Plant Protection) | 13.12.18-15.12.18 | ATARI, Kolkata |
| 2 | Capacity Building Programme | IPM in Important Agricultural and Horticultural Crops of West Bengal, Odisha and A & N Islands" | Scientist  (Agronomy) | 21.01.2019-24.01.2019 | ATARI, Kolkata |

3.7. Success **stories/Case studies, if any (two or three pages write-up on 1-2best case(s) with suitable action photographs)**

|  |  |
| --- | --- |
| Name of farmer | Mrutyunjay Hajira |
| Address | At- Narayanpur, Block- Baliapal, Dist- Balasore |
| Contact details  (Phone, mobile, email Id) | 09237437887 |
| Landholding (in ha.) | 1.0 |
| Name and description of the farm/ enterprise | Improved package of practices in Groundnut crop (HYV – Kadiri 6@ 175kgpods/ha, Seed inoculation with rhizobium culture@ 50g/kg seed , Soil test based balanced nutrient application, Application of imazethapyr@ 1ltr/ha, Application of zypmite plus@ 1q/ha, Combined nutrient spray(Mix 2.5kgDAP+1kgAmmonium sulphate+500g Borax in 40 ltrs water, Kept overnight, filtered, made up the volume to 500ltrs, mix 350ml planofix. Spray in 1 hactare area, Soil drenching & foliar spraying of Ridomil gold (metalaxyl+mancozeb)@ 2g + k-cycline@ 0.1g /ltr water, Foliar spraying of Triazophos 35%+ Deltamethrin1%@ 2ml/ltr water, Foliar spraying of Flonicamid50% @ 5g/15ltr water for aphid) |
| Economic impact | Established as adopter of advanced technology  Raised annual income to Rs 37600/ha |
| Social impact | Member-Netaji Mahaseva Sangathan, Narayanpur, President-Narayanpur UG-UP school, Krushak sathi-Betagadia GP, Programme Officer-NABARD Pilot project |
| Environmental impact | Recycling of wastes within various components of IFS |
| Horizontal/ Vertical spread | 250nos. of farmers in Jaleswar, Baliapl block adopted this technology |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Name/ Title of the technology | Name/ Details of the Innovator(s) | Brief details of the Innovative Technology |
| 01 | Low cost portable structure for Nursery raising | Jagabandhu Mohanty | A raised nursery bed of size 6ft x 3ft is prepared by using bamboo at a height of 1ft. from the ground level. A white perforated polythene sheet is spread over the bamboo structure. Mixture of soil, compost & sand in 2:1:1 ratio is used to fill up the structure and required amount of fertilizers are applied for better nutrient supply. A temporary roof of 3-4ft. height is prepared with 4pieces of bamboo sticks and polythene is used to protect the seedlings from abnormal rain. Early raising of seedlings for rabi vegetable & flower cultivation can be possible by using this type of raised nursery bed. This can particularly be helpful for the small & marginal farmers under paddy-vegetables cropping system. The seedlings can be transplanted within 5-10days of paddy harvesting which translates to early yield & more profit for the farmer. Also this nursery structure can be transferred to any safe place in case of flood, untimely rain, snowfall. |

3.9. a. 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)

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Crop / Enterprise | ITK Practiced | Purpose of ITK |
| 01 | Rice | Spraying of Rotten extracts of snail | To eradicate Gundhi bug |
| 02 | Rice | Spraying of cowdung slurry | To prevent grazing of cows into the crop field |
| 03 | Brinjal | Sprinkling of ash | To eradicate epilachna beetle |
| 04 | Pulse | Mixing of mustard oil | For safe staorage & to avoid attck of pulse beetle |

b. Give details of organic farming practiced by the farmer

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Crop / Enterprise | Area (ha)/ No. covered | Production | No. of farmers involved | Market available (Y/N) |
| - | - | - | - | - | - |

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

|  |  |  |
| --- | --- | --- |
| Sl. No. | Brief details of the tool/ methodology followed | Purpose for which the tool was followed |
| 01 | PRA | Problem identification |
| 02 | Group discussion | Problem prioritization |
| 03 | Diagnostic field visit | To identify disease & pest problem |

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

|  |  |  |
| --- | --- | --- |
| Sl. No | Name of the Equipment | Qty. |
|  | Mridaparikhyak | 2 |
|  | pH meter | 1 |
|  | Electrical conductivity meter | 1 |

3.11.b. Details of samples analyzed so far :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number of soil samples analyzed** | | | No. of Farmers | No. of Villages | Amount realized (Rs.) |
| Through mini soil testing kit/labs | Through soil testing laboratory | Total |  |  |  |
| 55 | 630 | 685 | 685 | 35 | - |

3.11. c. Details on World Soil Day

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Activity | No. of Participants | No. of VIPs | Name (s) of VIP(s) | Number of Soil Health Cards distributed | No. of farmers benefitted |
| 01 | * Soil Health card distribution * Awareness on soil testing soil test based fertilizer application * Use of bio-fertilizers * Seminar on Soil health Management | 250 | 03 | 1. 1. Shri Manas Ranjan Padhi, ADM, Balasore 2. 2. Smt. Nibedita Mohanty, Chairperson, Zillaparisad, Balasore 3. 3. SjTrilochan Behera, Member, Agriculture Standing Committee | 50 | 50 |

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. RAWE/ FET programme - is KVK involved? (Yes)

|  |  |
| --- | --- |
| No of student trained | No of days stayed |
| 20 | 0 |

|  |  |
| --- | --- |
| ARS trainees trained | No of days stayed |
| - | - |

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

|  |  |  |
| --- | --- | --- |
| Date | Name of the person | Purpose of visit |
| 01.05.2018 | Shri R.N. Das | Review of KVK activities |
| 31.08.2018 | Dr. K.S. Das | SAC meeting |
| 31.08.2018 | Dr. B.K. Mohapatra | SAC meeting |
| 31.08.2018 | Nilu Mohapatra | SAC meeting |
| 31.08.2018 | Prof. S.S. Mahapatra | SAC meeting |

1. IMPACT
   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)** |
| Mushroom cultivation | 60 | 98 | 39,000 | 70,000 |
| vermicomposting | 80 | 45 | 10000 | 30000 |

4.2. **Cases of large scale adoption**

(Please furnish detailed information for each case)

|  |  |
| --- | --- |
| Horizontal spread of technologies | |
| **Technology** | **Horizontal spread (ha)** |
| Application of Zinc & Triacontanol in betel vine | 150 |
| foliar application of boron mixed with urea in Cucumber | 220 |
| Integrated Management of Okra Shoot and Fruit Borer | 70 |
| Backyard rearing of improved poultry breed “Rainbow rooster” | 35nos.of village |

Give information in the same format as in case studies

* 1. Details of impact analysis of KVK activities carried out during the reporting period

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Brief details of technology | Impact of the technology in subjective terms | Impact of the technology in objective terms |
| 01 | Backyard rearing of rainbow rooster | Farmers from 25nos. of viallage adopted this technology | Yield (ABW) increases over 214.38% than local breed |
| 02 | Foliar application of boron mixed with urea in Cucumber | This technology is adopted in 100ha area | 14.34% increase over traditional practice |
| 03 | Zinc and Triacontanol use in Betel vine | This technology is adopted in 250ha area of Baliapal block | 11.13% yield increase than farmers practice |

4.4. Details of innovations recorded by the KVK

|  |  |
| --- | --- |
| **Thematic area** | Farm Machinery |
| **Name of the Innovation** | Low cost portable power sprayer for betel vine unit |
| **Details of Innovator** | Ratan Kumar Barik, AT/PO-Narayanpur, Block-Baliapal,Dist-Balasore |
| **Back ground of innovation** | He is a 10th drop out rural youth possessing 2hectare land. He was practicing conventional betel vine cultivation. The sprayers available in market is not suitable for spraying in betel vine unit. In 2017 he comes in contact with scientists of KVK, Balasore for technical intervention. |
| **Technology details** | Preparation of power sprayer by using used jerkin, low cost elliptical or rectangular iron base to hold the motor, use of spare parts like hand sprayer, battery (12V) and charger etc. |
| **Practical utility of innovation** | The 10lit capacity sprayer costs around Rs 2200/- which can easily be used in betel vine unit, where as the market price of the same capacity power sprayer is Rs 3000/- which can’t be used in betel vine unit |

4.5. Details of entrepreneurship development

|  |  |
| --- | --- |
| **Entrepreneurship development** | |
| Name of the enterprise | Mushroom production |
| Name & complete address of the entrepreneur | Bhaskar Patra  Chaumukh, Baliapal, Balasore |
| Role of KVK with quantitative data support: | * Training on Mushroom spawn production from OUAT, BBSR * Training on mushroom cultivation, field visit by scientists of KVK, Balasore, technical support, mushroom growers association facilitated by KVK, Balasore , popularization of spawn among other farmers * Approval of Mushroom Project of five lakh by DDH Balasore |
| Timeline of the entrepreneurship development | * 2014: Paddy straw Mushroom production * 2015: Training on Mushroom Spawn production from OUAT, BBSR * 2015: Mushroom Spawn * 2016: Training from KVK, Balasore * 2017: Started marketing of mushroom at baliapal & kalipada * 2018: Cultivation of mushroom (paddy straw & oyster) under shade-net house structure |
| Technical Components of the Enterprise | Mushroom Spawn - 400 bottles/day  Mushroom production 20- 25 bed/day (35 kg mushroom/day) |
| Status of entrepreneur before and after the enterprise | He was earning Rs 8000/- per month & had a bicycle with him for his day to day life. Now he is earning 22000/- per month , has purchased a two wheeler & android mobile phone. He has invested Rs 1,72,000/- to purchase an autoclave for the establishment of spwan production unit. He is atcting as amaster trainer & developed 27 mushroom grawers at Baliapal blcok |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. ( Economic viability of the enterprise): | Raw material i.e. Straw, wheat, Chalk powder are locally available  Skilled labour availability is a problem at Baliapal  Spawn quality is good & demand is high  Creation of market point at Baliapal and Kalipada for selling of Mushroom  The enterprise is economically viable |
| Horizontal spread of enterprise | * Technical support to 100 nos. of rural youth of Balipal block for Mushroom cultivation. * Supply of Mushroom Spawn bottle to entire Balasore district and parts of Mayurbhanj district. |

* 1. Any other initiative taken by the KVK

5. LINKAGES

* 1. Functional linkage with different organizations

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| Agriculture dept. | BGREI, NFSM, TRFA, Training |
| Horticulture dept. | QPM verification, Training |
| ATMA | Residential Training, STRY on Organic Farming |
| RSETI | Financial Literacy programme |
| NABARD | Awareness on PMFBY, Credit linkage |
| Reliance foundation | Audio conference , Live TV programme |

5.2. List of special programmes undertaken during 2018-19 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.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the programme/scheme** | **Purpose of programme** | **Date/ Month of initiation** | **Funding agency** | **Amount (Rs.)** |
| Training for Rural youth | Residential Training | July, 2018 | ATMA, Balasore | 1,44,000/- |
| SKTY on Organic Farming | Residential Training | March, 2019 | ATMA, Balasore | 29750/- |

1. 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 |
| 01 | Poultry | 2011-12 | 50 | Rainbow rooster, Kadaknath | 1266 | 1266 | 60952 | 83400 |  |

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 |
| Tomato | 28.10.18 | 02.02.19 | 0.005 | Utkal Kumari | Fruit | 1.28 | 300 | 1280 |  |
| Red Cabbage | 29.10.18 | 04.02.19 | 0.002 | - | Head | 0.12 | 45 | 120 |  |
| Cherry Tomato | 30.10.18 | 12.02.19 | 0.018 | - | Fruit | 0.29 | 40 | 290 |  |
| Broccoli | 26.10.18 | 25.01.19 | 0.004 | Solar Green | Curd | 0.52 | 250 | 520 |  |
| Cauliflower | 25.10.18 | 28.01.19 | 0.022 | Pusa Himjyoti | Curd | 3.58 | 200 | 1884 |  |
| Cabbage | 27.10.18 | 28.01.19 | 0.016 | Pusa Synthetic | Head | 2.96 | 100 | 1776 |  |
| Okra | 05.09.18 | 13.12.18 | 0.041 | Arka anamika | Fruit | 2.09 | 1000 | 4180 |  |
| Bean | 14.09.18 | 24.11.18 | 0.01 | Arka bhavani | Pod | 0.6 | 150 | 1200 |  |
| Amaranthus | 20.11.18 | 01.12.18 | 0.004 | Arka anupama | Leaf | 0.5 | 40 | 750 |  |
| Kosala | 10.10.18 | 24.11.18 | 0.002 | Arka Suguna | Leaf | 0.32 | 30 | 480 |  |
| Coriander | 27.10.18 | 02.12.18 | 0.003 | Arka jeha | Leaf | 0.27 | 30 | 540 |  |
| Radish | 21.09.18 | 24.11.18 | 0.006 | Arka Nishant | Modified root | 0.68 | 40 | 680 |  |
| Yam | 05.05.18 | 18.12.18 | 0.004 | Odisha Elite | Tuber | 0.71 | 420 | 2130 |  |
| Elephant foot yam | 02.05.18 | 17.12.18 | 0.0015 | Gajendra | Tuber | 0.38 | 350 | 1520 |  |

* 1. 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. | - |  | - | - | - |

* 1. 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. | Poultry | Rainbow rooster, Kuroiler | 21days old chick | 1266 | 60952 | 83400 |  |

* 1. Utilization of hostel facilities

Accommodation available (No. of beds)- 24

|  |  |  |  |
| --- | --- | --- | --- |
| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
| July | 50 | 8 | - |
| August | 20 | 2 |  |
| September | 40 | 5 |  |
| October | 20 | 03 | - |
| November | 34 | 4 |  |
| December | 20 | 2 | - |
| January | 52 | 4 |  |
| February | 40 | 4 |  |
| March | 54 | 11 | - |
| **Total :** | **330** | **43** | - |

* 1. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staff quarters: 4

Date of completion: 2008

Occupancy details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Months | Q I | QII | Q III | QIV |
| April, 2018-March, 2019 | Birendra Kumar Parida  Driver-cum-Mechanic | Manoj Kumar Jena  Scientist (Soil Sc.) | Debendranath Das  Peon-cum-Watchman | Vacant |

1. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

|  |  |  |  |
| --- | --- | --- | --- |
| **Bank account** | **Name of the bank** | **Location** | **Account Number** |
| Contingency | State bank of India | Baliapal | 11524957372 |
| Revolving fund | UCO bnak | Debhog | 17550200000062 |

* 1. Utilization of funds under CFLD on Oilseed *(Rs. In Lakhs)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on -1st April 2019 |
| Kharif | Rabi | Kharif | Rabi |
|  |  |  |  |  |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April 2019 |
| Kharif | Rabi | Kharif | Rabi |
| Green gram |  | 3,60,000 |  | 2,62,844 | 97156 |
| Black gram |  | 2,70,000 |  | 2,02,329 | 67671 |
| TOTAL |  | 6,30,000 |  | 465173 | 164827 + Rs 97/- (Unspent balance for technology agent during 2017-18 = **164924/-** |

7.4. Utilization of KVK funds during the year 2018-19 (Not audited)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Particulars | Sanctioned | Released | Expenditure |
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 94,00,000 | Data with comptroller office | Data with comptroller office |
| 2 | Traveling allowances | 75000/- | 75000/- | 75000/- |
| 3 | Contingencies | | | |
| *A* | Stationary, telephone postage and other expenditure on office running, POLs, repairs of vehicle, tractor & equipments | 3,60,000 | 3,60,000 | 3,60,568 |
| *B* | Vocational Training  Meals/ refreshments for trainees, Training of extension functionaries, Training of Rural Youth, Training Material | 2,70,000 | 2,70,000 | 2,70,739 |
| *C* | FLD except oilseed and pulses | 1,80,000 | 1,80,000 | 1,80,447 |
| *D* | On-farm Trials | 90,000 | 90,000 | 90,636 |
| *E* | SCSP contingency | 2,00,000 | 2,00,000 | 1,96,410 |
| *F* | Audit charges | - | - | 1200 |
| TOTAL (A) | | **11,75,000** | **11,75,000** | **11,75,000** |
| B. Non-Recurring Contingencies | | | | |
| TOTAL (B) | | **11,75,000** | **11,75,000** | **11,75,000** |
| C. REVOLVING FUND | |  |  |  |
| GRAND TOTAL (A+B+C) | | **11,75,000** | **11,75,000** | **11,75,000** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Opening balance as on 1st April** | **Income during the year** | **Expenditure during the year** | **Net balance in hand as on 1st April of each year (Kind + cash)** |
| 2015-16 | 339167 | 2,43,707 | 1,33,074 | 449800 |
| 2016-17 | 4,49,800/- | 2,00,650/- | (105995+539455 deposited with DEE, OUAT) | 5000 |
| 2017-18 | 5000/- | 4,22,235 (Rs 2,00,000 received from DEE) | 37,817/- | 3,84,418/- |
| 2018-19 | 5000/- | 179684 | 77,809/- | 1,01,875/- |

* 1. (i) Number of SHGs formed by KVKs - 0

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities – 5nos. (Pisciculture, Mushroom)

(iii) Details of marketing channels created for the SHGs – nil

* 1. Joint activity carried out with line departments and ATMA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of activity | Number of activity | Season | With line department | With ATMA | With both |
| BGREI monitoring Programme | 10 | Kharif, 2018 | Agriculture dept. | - | - |
| Resource person for TRFA prog | 6 | Rabi, 2018-19 | Agriculture dept. | - | - |
| DAESI training prog. | 7 | 2018-19 | Agriculture dept. | ATMA, Balasore | - |
| Capacity building training | 05 | 2018-19 |  | ATMA, Balasore |  |
| Skill development training for rural youth | 01 | Rabi, 2018-19 |  | ATMA, Balasore |  |

8. Other information

8.1. Prevalent diseases in Crops

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the disease | Crop | Date of outbreak | Area affected (in ha) | % Commodity loss | Preventive measures taken for area (in ha) |
| Bacterial leaf blight | Rice | Sept.-October | 1200 | 60% | 1050 |

8.2. Prevalent diseases in Livestock/Fishery

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the disease | Species affected | Date of outbreak | Number of death/ Morbidity rate (%) | Number of animals vaccinated | Preventive measures taken in pond (in ha) |
| - | - | - | - | - | - |

9.1. Nehru Yuva Kendra (NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

9.3. *m-Kisan* Portal (National Farmers’ Portal/ SMSPortal)

|  |  |  |
| --- | --- | --- |
| Type of message | No. of messages | No. of farmers covered |
| Crop | 79 | 87312 |
| Livestock | 01 | 62583 |
| Fishery | 01 | 62583 |
| Weather | 02 | 85845 |
| Marketing | 01 | 62583 |
| Awareness | 02 | 85851 |
| Training information | 01 | 85826 |
| Other | 01 | 81233 |
| **Total** | **88** | **87312** |

9.4. *KVK* Portal and Mobile App

|  |  |  |
| --- | --- | --- |
| Sl. No. | Particulars | Description |
| 1. | No. of visitors visited the portal | *130* |
| 2. | No. of farmers registered in the portal | *12* |
| 3. | Mobile Apps developed by KVK | *-* |
| 4. | Name of the App | *-* |
| 5. | Language of the App | *-* |
| 6. | Meant for crop/ livestock/ fishery/ others | *-* |
| 7. | No. of times downloaded | *-* |

9.5. a. Observation of Swacha Bharat Programme

|  |  |
| --- | --- |
| Date of Observation | Activities undertaken |
|
| 21.12.2018 | Organize Waste collection drives in households and common or shared spaces |
| 22.12.2018 | Organize awareness campaigns around better sanitation practices like using a toilet, handwashing,health and hygiene awareness,etc |
| 24.12.2018, 26.12.2018 & 27.12.2018 | Organize cleaning of streets,drains and back alleys through awareness drive |
| 28.12.2018 | Debates,discussions,awareness programmes,poster competitions |
| 29.12.2018 | Organize cleaning of streets,drains and back alleys through awareness drives |

b. Details of Swachhta activities with expenditure

|  |  |  |
| --- | --- | --- |
| **Activities** | **Number** | **Expenditure (in Rs.)** |
| 1. Digitization of office records/ e-office | 05 |  |
| 1. Basic maintenance | 03 |  |
| 1. Sanitation and SBM | 05 |  |
| 1. Cleaning and beautification of surrounding areas | 02 |  |
| 1. Vermicomposting/   Composting of biodegradable waste management & other activities on generate of wealth for waste | 03 |  |
| 1. Used water for agriculture/ horticulture application | 02 |  |
| 1. Swachhta Awareness at local level | 07 |  |
| 1. Swachhta Workshops | - |  |
| 1. Swachhta Pledge | 01 |  |
| 1. Display and Banner | 05 |  |
| 1. Foster healthy competition | - |  |
| 1. Involvement of print and electronic media | - |  |
| 1. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | 05 |  |
| 1. No of Staff members involved in the activities | 15 |  |
| 1. No of VIP/VVIPs involved in the activities | 04 |  |
| 16. Any other specific activity (in details) |  |  |
| **Total** | **57** |  |

9.6. Observation of National Science day

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

9.7. Programme with Seema SurakshaBal (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 |
| Sri aurobindo School of Integral Education & Research, Bishnupur, Balipal, Balasore | 03.02.2019 | Agriculture | - |

9.9. Details of ‘*Pre-Rabi Campaign’* Programme: **NO *Pre-Rabi Campaign’at KVK, Balasore***

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Date of programme | No. of Union Ministers attended the programme | No. of  Hon’ble MPs (Loksabha/ Rajyasabha) participated | No. of State Govt. Ministers | Participants (No.) | | | | | | | Coverage by Door Darshan (Yes/No) | Coverage by other channels (Number) |
| MLAs Attended the programme | Chairman ZilaPanchayat | Distt. Collector/ DM | Bank Officials | Farmers | Govt. Officials, PRI members etc. | Total |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

9.10. Details of Swachhta Hi Sewa programme organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 01 | Awareness Campaign | 15 | 450 | - | - |
| 02 | Cleanliness Drive | 20 | 600 | - | - |
| 03 | Celebration of Swachhata Pakhwada | 10 | 300 | - | - |

9.11. Details of Mahila Kisan Divas programme organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 01 | Awareness about Income generatiting activities, Nutritional Security | 05 | 50 | 0 | - |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name of Farmer** | **Address of the farmer with contact no.** | **Innovation/ Leading in enterprise** |
|  | Brundaban Panigrahi | Haripur, Simulia, Balasore  9583960591 | Profitable Pisciculture by using Local feed |
|  | Bhaskar patra | Chaumukh, Baliapal  9583704665 | Mushroom cultivation |
|  | Mrutyunjay Hajira | Narayanpur, Baliapal  9237437887 | Groundnut, Betel vine |
|  | Jagabandhu Mohanty | Tahalia, Remuna  7873732893 | Integrated Farming System  Low cost nursery technique |
|  | Ratan Kumar Barik | Narayanpur, Baliapal  7894274374 | Low cost portable power sprayer for betel vine unit |
|  | Dolagovinda Barik | At/Po-Bhanpur, Baliapal  7377071347 | Value added products of milk |

9.13. Revenue generation

| Sl.No. | Name of Head | Income(Rs.) | Sponsoring agency |
| --- | --- | --- | --- |
| 1. | - | - | - |

9.14. Resource Generation:

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

9.15. Performance of Automatic Weather Station in KVK

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

9.16. Contingent crop planning

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the state | Name of district/KVK | Thematic area | Number of programmes organized | Number of Farmers contacted | A brief about contingent plan executed by the KVK |
| Odisha | Balasore | Contingent crop planning | 01 | 30 | - |

10. Report on Cereal Systems Initiative for South Asia (CSISA) ***No CSISA programme at KVK, Balasore during 2018-19***

1. Year:
2. Introduction / General Information:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Title | Objective | Treatment details | Date of sowing | Replication | Result with photographs |
| Experiment 1 |  |  |  |  |  |  |
| Experiment 2 |  |  |  |  |  |  |
| Experiment 3 |  |  |  |  |  |  |
| Others (If any) |  |  |  |  |  |  |

11. Details of TSP: ***No TSP programme at KVK, Balasore***

1. Achievements of physical output under TSP during 2018-19

|  |  |
| --- | --- |
| **Programmes** | **Physical achievements** |
| 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) |  |
| No. of otherprogrammes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.) |  |

1. Fund received under TSP in 2018-19 (Rs. In lakh):
2. Achievements of physical outcome under TSP during 2018-19

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Description | Unit | Achievements |
|
| 1 | Change in family income | % | - |
| 2 | Change in family consumption level | % | - |
| 3 | Change in availability of agricultural implements/ tools etc. | No. per household | - |

1. Location and Beneficiary Details during 2018-19

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***District*** | ***Sub-district*** | ***No. of Village covered*** | ***Name of village(s)***  ***covered*** | ***ST population benefitted***  ***(No.)*** | | |
| M | F | T |
| - | - | - | - | - | - | - |

12. Progress report of NICRA KVK (Technology Demonstration component) during the period

(Applicable for KVKs identified under NICRA) – **No NICRA project at KVK, Balasore**

Natural Resource Management

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

Crop Management

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

Livestock and fisheries

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

Institutional interventions

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

Capacity building

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

Extension activities

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

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

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

Award received by Farmers from the KVK district

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of the Award | Name of the Farmer | Year | Conferring Authority | Amount | Purpose |
| 01 | Best Farmer award | Ratan Kumar Barik | 2018 | OUAT, Bhubaneswar | - | University foundation day observation |

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

15. Number of commodity based organizations/ farmers’ cooperative society/ FPO formed/ associated with during last one year

(Details of the group/society may be indicated)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of the organization/ Society | Trust Deed No.& date | Date of Trust Registration        Address | Proposed Activity | Commodity Identified | No. of Members | Financial position  (Rupees in lakh) | Success indicator |
| - | - | - | - | - | - | - | - | - |

1. Integrated Farming System (IFS)

**Details of KVK Demo Unit**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Module details  (Component-wise) | Area under IFS (ha) | Production (Commodity-wise) | Cost of production in Rs. (Component-wise) | Value realized in Rs. (Commodity-wise) | No. of farmer adopted practicing IFS | % Change in adoption during the year |
|  | - | - | - | - | - | - | - |

1. **Technologies for Doubling Farmers' Income**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | **Name of the Technology** | **Brief Details of Technology (3- 5 bullet points)** | **Net Return to the farmer (Rs.) per ha per year due to the technology** | **No. of farmers adopted the technology in the district** | **One high resolution ‘Photo’ in ‘jpg’ format for each technology** |
|  | IWM in paddy | Post emergence application of bispyribac Na@ 250ml/ha followed by one hand weeding | 39427 | 1200 | - |
|  | Combined nutrient spray | Combined nutrient spray (2.5kg DAP+1kg Ammonium sulphate + 500g Borax + 350ml Planofix in 500ltr water) | 28650 | 600 |  |
|  | Integrated Management of Sheath blight | Seed v treatment with Thiophenate methyl@1.5g/kg seed and alternate spraying of (Trifloxystrobin+ Tebuconazole) @ 0.4g/ltr& Thifluzamide 24SC @ 1ml/ltr water | 27550 | 1100 |  |
|  | IWM in Groundnut | Post emergence spray of Imazethapyr 10%Sl@ 1ltr/ha followed by one hand weeding | 57150 | 600 | - |
|  | IPM in Toria | IPM in Toria with Flonicamid 50%@ 1g/3ltr water | 15400 | 580 |  |
|  | Cultivtaion of Paddy stray mushroom | Mushroom 100 beds /yr (Paddy straw) | 1980/bed/year | 1100 | - |
|  | Backyard rearing of Rainbow Rooster | Rearing of 10 Nos. (Rainbow roster) in backyard | 11400/10no. bird/year | 350 | - |

1. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Database prepared/ covered for | | KVK level Committee | | Various activity conducted for farmers |
| Phase | Total no. of villages | Total no. of farmers | Date of formation | Name of members |
| I (up-to 24.04.2018) | 675 | 1814 | - | - | - |
| II (up-to 24.04.219) | 1370 | 4138 |  |
| Total | 2045 | 5992 |  |

1. Information on Visit of Ministers to KVKs, if any

| Date of Visit | Name of Hon’ble Minister | Name of Ministry | Salient points in his/ her observation  (2-3 bulleted points) |
| --- | --- | --- | --- |
| - | - | - | - |

1. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2017-18 and 2018-19:

**No ASCI skill development training programme conducted at KVK, Balasore**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Year | Name of the Job role | Name of the certified Trainer of KVK for the Job role | Date of start of training | Date of completion of training | No. of participants | Whether uploaded to SDMS Portal (Y/N) | Fund utilized for the training (Rs.) |
| 2016-17 |  |  |  |  |  |  |  |
| 2017-18 |  |  |  |  |  |  |  |
| 2018-19 |  |  |  |  |  |  |  |

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2018-19

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic area of training | Title of the training | Duration (in hrs.) | No. of participants | | | | | | | | | Fund utilized for the training (Rs.) |
|  |  |  | SC | | ST | | Other | | Total | | |  |
|  |  |  | M | F | M | F | M | F | M | F | T |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Information on NARI Project (if applicable): **NO**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of Nodal Officer** | **No. of OFT on specified aspects** | **Title(s) of OFT** | **No. of FLD on specified aspects** | **No. of capacity development programme on specified aspects** | **Total no. of farm women/ girls involved in the project** | **Details of Issues related to gender mainstreaming addressed through the project** |
|  |  |  |  |  |  |  |

1. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable: **NO**

***Krishi Kalyan Abhiyan- I and II***

1. **Training**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Name of programme*** | ***No. of programmes*** | ***No. of farmers benefitted*** | | | | | | | | | ***No. of officials attended the programme*** |
| ***SC*** | | ***ST*** | | ***Others*** | | ***Total*** | | |
| ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***T*** |
| **KKA-I** |  |  |  |  |  |  |  |  |  |  |  |
| **KKA-II** |  |  |  |  |  |  |  |  |  |  |  |

1. **Distribution of seed/ planting materials/ input/ others**

| ***Name of programme*** | ***No. of Programme*** | ***Total quantity distributed*** | | | | ***No. of farmers benefited*** | | | | | | | | | ***No. of other officials (except KVK)***  ***attended the programme*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Seed (q)*** | ***Planting material (lakh)*** | ***Input (kg)*** | ***Other (kg/ No.)*** | ***SC*** | | ***ST*** | | ***Others*** | | ***Total*** | | |  |
| ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***T*** |
| **KKA-I** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **KKA-II** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. **Livestock and Fishery related activities**

| ***Name of programme*** | ***No. of Programme*** | ***Activities performed*** | | | | ***No. of farmers benefited*** | | | | | | | | | ***No. of other officials (except KVK)***  ***attended the programme*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***No. of animals vaccinated*** | ***No. of animals dewormed*** | ***Feed/ nutrient supplements provided (kg)*** | ***Any other (Distribution of animals/ birds/ fingerlings)***  ***[No.]*** | ***SC*** | | ***ST*** | | ***Others*** | | ***Total*** | | |
| ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***T*** |
| **KKA-I** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **KKA-II** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. **Other activities**

| ***Name of programme*** | ***Activities*** | ***No. of farmers benefited*** | | | | | | | | | ***No. of other officials (except KVK)***  ***attended the programme*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***SC*** | | ***ST*** | | ***Others*** | | ***Total*** | | |
| ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | T |
| KKA-I | Soil Health Card Distributed |  |  |  |  |  |  |  |  |  |  |
| NADEP  Pit established |  |  |  |  |  |  |  |  |  |  |
| Farm implements distributed |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |
| KKA-II | Soil Health Card Distributed |  |  |  |  |  |  |  |  |  |  |
| NADEP  Pit established |  |  |  |  |  |  |  |  |  |  |
| Farm implements distributed |  |  |  |  |  |  |  |  |  |  |
| Others, if any |  |  |  |  |  |  |  |  |  |  |

***Krishi Kalyan Abhiyan- III***

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***No. of villages covered*** | ***No. of animal inseminated*** | ***No. of farmers benefitted*** | | | | | | | | | ***Any other, if any***  ***(pl. specify)*** |
| ***SC*** | | ***ST*** | | ***Others*** | | ***Total*** | | |
| ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | T |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

1. Any other programme organized by KVK, not covered above

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Name of the programme | Date of the programme | Venue | Purpose | No. of participants |
| 01 | District level research-extension interface meeting | 24.07.2018 | KVK campus | To finalize activity for August, 2019 | 20 |

1. Good quality action photographs of overall achievements of KVK during the year (best 10)

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