**PROFORMA FOR ANNUAL REPORT 2019 (January-December 2019)**

1. GENERAL INFORMATION ABOUT THE KVK

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

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Telephone | | E mail |
| KVK, Balasore | Office | FAX |  |
| AT/PO-Devog, Via- Singla,Balasore,Pin-756023 | 06781-253303 | - | [kvkbalasore.ouat@gmail.com](mailto:kvkbalasore.ouat@gmail.com),[pckvkbalasore@gmail.com](mailto:pckvkbalasore@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 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 1stJanuary, 2020**)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Sanctioned post** | **Name of the incumbent** | **Designation** | **Discipline/** | **Pay**  **Scale with present basic** | **Date of joining** | **Permanent/**  **Temporary** | **Category (SC/ST/OBC/**  **Others)** |
| 1 | Senior Scientist& Head | Dr. Sunil Kumar Mohapatra | Senior scientist and Head | Horticulture | 15600-39100 + AGP 8000/-  Present Basic 29320/- | 10/01/2006 | Permanent | Others |
| 2 | Subject Matter  Specialist | Manoj Kumar Jena | Scientist | Soil Science | 15600-39100 + AGP 6000/-  Present Basic 25780/- | 13/02/2006 | Permanent | Others |
| 3 | Subject Matter  Specialist | Dr. Amita rani Patra | Scientist | Home Science | 15600-39100 + AGP 6000/-  Present Basic 23070/- | 22/10/2009 | Permanent | Others |
| 4 | Subject Matter  Specialist | Pravamanjari Giri | Scientist | Crop Production | 15600-39100 + AGP 6000/-  Present Basic 18320/- | 01/01/2016 | Permanent | Others |
| 5 | Subject Matter  Specialist | Dr. Gayatree Sahoo | Scientist | Plant protection | 15600-39100 + AGP 6000/-  Present Basic 18320/- | 29/12/2015 | Permanent | Others |
| 6 | Subject Matter  Specialist | Sefali Rout | Scientist | Forestry | 15600-39100 + AGP 6000/-  Present Basic 15600/- | 05/10/2015 | Permanent | Others |
| 7 | Subject Matter  Specialist | Kamalakanta Behera | Scientist | Ag. Extension | 15600-39100 + AGP 6000/-  Present Basic 22220/- | 27/07/2018 | Permanent | Others |
| 8 | Programme Assistant | Niroj Kumar Jena | Programme Assistant | Seed Science | 9300- 34800 +AGP 4200  Present Basic 11010/- | 28/12/2015 | Permanent | Others |
| 9 | Computer  Programmer | Sanjay Kumar Barik | Programme Assistant | Computer  Science | 9300- 34800 +AGP 4200  Present Basic 17690/- | 01/07/2005 | Permanent | Others |
| 10 | Farm Manager | Krishnamayee Sethi | Farm Manager | Agronomy | 9300- 34800 +AGP 4200  Present Basic-9300/- | 29/01/2019 | Permanent | SC |
| 11 | Accountant | Vacant | - |  | - | - | - | - |
| 12 | Stenographer | Pravat Kumar Swain | Steno Cum Computer Operator |  | 5200-20200 + GP-2400  Present Basic 6430/- | 06/03/2014 | Permanent | Others |
| 13. | Driver | Srikanta Sahoo | Driver Cum Mechanic |  | 5200-20200+GP 1900/-  Present Basic – 8270/- | 21/05/2018 | Permanent | Others |
| 14. | Driver | Birendra Kumar Parida | Driver Cum Mechanic |  | 5200-20200+GP 1900/-  Present Basic 6350/- | 17/02/2014 | Permanent | Others |
| 15. | Supporting staff | Debendra Nath Das | Peon Cum Watchman |  | 4440-7440+GP 1700/-  Present Basic 6530/- | 01/08/2008 | Permanent |  |
| 16. | Supporting staff | Rajkishore Mohapatra | Peon Cum Watchman |  | 4440-7440+GP 1700/-  Present Basic 7020 | 26/12/2007 | Permanent | Others |

1.6. Total land with KVK (in ha)

:

|  |  |  |
| --- | --- | --- |
| **SL. No.** | **Item** | **Area (ha)** |
|  | Under Buildings | 0.8 |
|  | Under Demonstration Units | 0.3 |
|  | Under Crops | 0.5 |
|  | Orchard/Agro-forestry | 0.2 |
|  | Mini IFS unit | 0.1 |
|  | Poly house and Shade net | 0.2 |
|  | Unutilized Land (Encroached) | 5.5 |
|  | Total | **7.62** |

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 | 6380 | Running |
| Bolero | 2011 | 460534 | 136882 | Running |

C) Equipment & AV aids

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
| a. **Lab equipment** | | | | |
| MridaParikhyak | 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 |
| power weeder | 2018-19 | 28400 | Working | ICAR-ATARI, Kolkata |
| Power brush cutter | 2018-19 | 23000 | Working | ICAR-ATARI, Kolkata |
| Chain saw | 2019-20 | 14800 | Working | ICAR-ATARI, Kolkata |
| Double wheel barrow | 2019-20 | 5500 | Working | ICAR-ATARI, Kolkata |
| c. **AV Aids** | | | | |
| Projector | 2016-17 | 16450 | Working properly | ICAR-ATARI, Jabalpur |
| Television | 2017-18 | 44300 | Working properly | ICAR-ATARI, Kolkata |
| Television | 2019-20 | 14000 | 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 |
| Hand wheel hoe 3-tyne | 2019-20 | 3800 | working | ASCI |
| Seed-cum-Fertilizer drill | 2019-20 | 8200 | Working | ASCI |
| Garden pipe | 2018-19 | 1600 | Working | ICAR-ATARI, Kolkata |
| Trench hoe | 2018-19 | 480 | Working | ICAR-ATARI, Kolkata |
| Fouda | 2018-19 | 1040 | Working | ICAR-ATARI, Kolkata |
| Sickle | 2018-19 | 560 | Working | ICAR-ATARI, Kolkata |
| Rose cane | 2018-19 | 600 | Working | ICAR-ATARI, Kolkata |
| Plastic pot | 2018-19 | 660 | Working | ICAR-ATARI, Kolkata |
| Plastic tub | 2018-19 | 400 | Working | ICAR-ATARI, Kolkata |
| Plastic tray | 2018-19 | 600 | Working | ICAR-ATARI, Kolkata |
| Plastic sprayer 5lit | 2019-20 | 1400 | Working | ICAR-ATARI, Kolkata |
| Tarpaulin poly sheet | 2019-20 | 14000 | Working | ICAR-ATARI, Kolkata |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Date** | **Number of Participants** | **Salient Recommendations** | **Action taken** | **If not conducted, state reason** |
| 01 | 29.08.  2019 | 39 | 1. Residential training programme on Income generating activities should be organised by involving women SHG groups under Mission Shakti 2. Recruitment of expert of fishery/animal husbandry in KVK 3. Emphasize on Promotion of high value crops & protective cultivation in horticultural crops 4. Resource person should be provided for conducting non-residential training at KVK in convergence with agriculture department 5. KVK should provide necessary support for conducting a 07day residential training on “Mushroom cultivation” in convergence with ATMA, Balasore 6. KVK should provide technical support to Watershed programme on soil reclamation 7. Women SHG group should be involved in DFI activities 8. KVK should involve OLM in the DFI activities at Nilgiri& Bhograi area 9. QPM should be supplied to the beneficiaries involved in OLM programme 10. Vermi-compost & biofertilizer should be used in betel vine instead of chemicals for improving leaf quality & increased yield 11. Alternate cropping pattern should be developed & popularised through awareness programme in elephant migratory road 12. Impact assessment of training programme should be documented 13. Climate-smart varieties i.e. CR Dhan 801 and 802 (tolerant to both submergence and drought) should be assessed in Balasore condition 14. High protein rice varieties (CR Dhan 310 & 311) should assessed & included in nutritional garden programme 15. Popularization of Rice expert app among farming community 16. Emphasis should be given on farm mechanization 17. Community nursery programme should be taken up in FLD programme 18. Feedback of farmers on specific problem should be sent to RRTTS, Ranital for further research 19. Crop diversification should be emphasized 20. Promotion of HYV, INM & IPM in betel vine 21. Supply of dwarf variety of coconut to farmers | 1. Scientists of KVK imparted training (3nos.) involving women SHG groups under Mission Shakti 2. No recruitment of fishery/animal husbandry has been done by OUAT 3. Promotion of high value crops like Tuberose var. Prajjwal is promoted 4. Resource person provided for 06nos. of skill training at KVK in convergence with agriculture department 5. A 02day residential training (30 trainees) on “Mushroom cultivation” was organized in convergence with ATMA, Balasore 6. KVK provided technical support to watershed programme on soil reclamation 7. 10SHG members has been supplied with 100nos. of Oyster mushroom spawn & 10SHG members has been supplied with 100nos. of Kadaknath chick 8. 01n training prog. on mushroom cultivation is conducted at Bhograi involving 20nos. of WSHG members on 05.01.2020 9. So far no Indent has been received from OLM 10. Vermi-composting is promoted to 07nos. of betel vine growers of Baliapal 11. 02 nos. training has been conducted involving 60nos. of farmers to promote alternate crops in elephant migratory areas of Nilgiri block 12. Impact assessment of 10nos. of training programme is documented 13. Planned to conduct OFT on CR Dhan 801 and 802 during Kharif, 2020 14. Planned to conduct OFT on CR Dhan 310 and 311 during Kharif, 2020 15. Created awareness among 180nos. of farmers during KVK training prog, 20nos. during ASCI, 300nos. of farmers during 06nos. of training organized by agril. dept. 16. 150nos. of farmers has been awared about farm mechanization through use of seed-cum-fertilizer drill, combined harvester, power weeder etc. 17. 180nos. of farmers of Bhograi & Baliapal has been mobilized to take up community nursery as contingent measure under flash flood & drought condition 18. Researchable issues of Balasore district has been sent to RRTTS, Ranital 19. 01 training involving 20nos. of extension personnel & 02nos. of training involving 60nos. farmers on crop diversification have been conducted & 01 FLD on Crop diversification from Rice-rice to Rice-Maize + cowpea (2:2) will be conducted in 2020 20. FLD on zinc application (10farmer) & FLD on vine rot management (10farmer) in betel vine has been conducted. 21. Contacted CDB & horticulture dept for 30nos.farmers to grow dwarf variety of coconut |  |

*\* Salient recommendation of SAC in bullet form*

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

**Proceedings of the 23rdScientific Advisory Committee (SAC) meeting**

The **23rd** Scientific Advisory Committee Meeting of KVK, Balasore was held on 29thAugust, 2019 in the Conference Hall of KVK under the Chairmanship of Dr. Prasannajit Mishra, Joint Director, Directorate of Extension Education, OUAT, Bhubaneswar.

The meeting was started at 10.30AM with a warm welcome to Dr. Prasannajit Mishra, Joint Director, Directorate of Extension Education, 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 22ndScientific Advisory Committee Meeting held on 31.08.2018**

|  |  |
| --- | --- |
| **Recommendations** | **Action Taken** |
| Soil sample should be collected and tested before and after Experiment on trial | Soil samples were collected from OFT, FLD & CFLD plots and tested for different parameters. |
| Training and awareness programme should focus on seed production programme in Paddy crops | 6nos. of awareness programme on seed production in Paddy crop was conducted during 2018-19 & a residential training programme on “seed production techniques” will be conducted in 2019-20in convergence with ATMA, Balasore |
| KVK should document the success story of the farmers and farm women | Success story of 05nos. of farmers & 01nos. of farm women were documented during 2018-19 |
| Awareness creation among farmers for recommendation of soil test-based fertilizer application | Created awareness among farmers about soil test-based fertilizer application in different crops through 08nos. of training of soil science discipline, 06nos. of training on soil health management (convergence with ATMA), 01no. of Video conference, 01no. Audio conference & 01no. of TV talk (Convergence with reliance foundation) and in various prog. of line department & NGOs |
| Demonstration on Fishery science programme may be conducted in convergence programme with Fishery Dept. as well as with the scientist (fishery), KVK, Bhadrak | Demonstration on Pisciculture was conducted by fishery department. We have maintained different commercial fish varieties in our demonstration unit with help of fishery dept. |
| KVK, Balasore may utilize the expertise of fishery and veterinary Sc. From Dept. And ring KVK, Bhadrak | Animal health camp was conducted with help of veterinary dept. & fish growers of Balasore district have taken telephonic advisory from Scientist (fishery), KVK, Bhadrak. |
| Training programme on Mushroom spawn production should be conducted | 2nos. of Training programme on Mushroom spawn production during 2018-19 & 1no. of training was conducted in convergence with ATMA Balasore. |
| KVK should publish Extension bulletin like Leaflets, Booklet on location specific technology & Newsletter etc for dissemination of technological breakthrough | Extension bulletin like quarterly newsletter (the Shyamala), 02nos. of leaflet(BPH management &Akshay tritiya) , 3nos. of booklets (Mushroom production, value addition of mushroom, sweet corn cultivation) for dissemination of technology was published during 2018-19 |
| KVK should create Farmers club with the help of NABARD, Balasore | KVK facilitates farmer club at Ganja, Asanbani &Nilakanthapur for technological backstopping |
| In training programme KVK should quantify the training programme and participants | 58nos. of training was conducted & 1591nos. of farmers, farm women, rural youth & extension functionaries participated in the training programme. |
| Recruitment of Fishery scientist or Animal scientist against the vacant post | Recruitment of Fishery scientist or Animal scientist will be done by OUAT |
| KVK should conduct training programme at watershed catchment area | Training programme at watershed catchment area will be conducted during 2019-20 in convergence with PD, Watershed, Balasore |
| DFI through efficient convergence | DFI modules developed by KVK are being implemented in villages in convergence with schemes of Agril. dept. & allied department |
| More awareness needs to be crated regarding FPO & farmers club formation | KVK scientists create awareness on FPOs & Farmers club formation through their training programme |
| OLM & ORMAS should take steps to resolve the issue of marketing | There is proposal for facilitating marketing of selected commodity through ORMAS & OLM |
| Organic production unit should be developed at KVK campus | Organic production unit has been developed at KVK campus for creating awareness among the farming community |
| More no. of skill-oriented training programme should be imparted to rural youths | Various training programme on skill-oriented training programme was conducted in convergence with ATMA |
| Demonstration to reach more numbers of the farmers | More numbers of farmers were included in convergence mode with line departments |
| To develop sustainable agriculture model in rice-fallow area | Sustainable farming system models have been developed for different AES |
| Production of QPM in KVK & creating awareness among the farming | KVK has produced quality tuber crops, vegetable seedlings, Green manuring crop like Dhanicha, Forest species for the farming community |
| To register a greater number of farmers under KVK portal | Regularly registering new farmers in our database |

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

The Sr. Scientist & Head presented the achievements for the year 2018-19

**Training:** The KVK has conducted 45 nos. training programmes for practicing farmers and farm women, 04 nos. for rural youth and 09 nos. for extension functionaries.

**On farm testing:** The KVK has conducted 10nos. of OFTs on major thrust areas like Assessment of lime application in Green gram, Integrated Nutrient Management in Tomato, of rice varieties for BPH tolerance, Rice Crop Manager in Transplanted Rice, Integrated Management of YMV in Green Gram, Integrated Management of Shoot and Fruit Borer in Brinjal, Poultry breed in Backyard, Different Strains of Paddy Straw Mushroom, intercropping of pulses in *Acacia auriculiformis* plantation, long pepper and black pepper in Arecanut plantation

**Front Line Demonstration:** The KVK has conducted 19 nos. of FLDs on various aspects like Demonstration on Rice-Toria paira cropping system in the Rain-fed medium land condition, Salt tolerant paddy var. Luna Sampad, Application of herbicide Bispyribac Sodium in paddy and Imazethapyr in Groundnut,Sulphur application in transplanted Rice, Foliar application of boron mixed with urea in Cucumber, ,Zinc and Triacontanol on leaf yield of Betel vine, Integrated Management of Okra Shoot and Fruit Borer, integrated management of BPH/WBPH in rice, Integrated Management of melon fruit fly in bitter gourd, Integrated Stem Borer Management in Summer Rice , Poultry breed “Rainbow Rooster in backyard, Oyster Mushroom variety Hypsizygous ulmarius (Blue oyster mushroom), turmeric in acacia plantation, block plantation of Acacia auriculiformis in waste land, preparation of jaggery from date palm sap, Integrated nutrient management in Toria for improved seed yield, Cluster Demonstration on Package practices of Green Gram &Black Gram.

**Other extension activities:** During the period KVK has conducted 02 Kisan Gosthies, 01 field day, 02nos. of Exhibition, 30nos. of Film show, 01 SHG convener meeting, 05nos of special day celebration, 02 radio programmes, 07 TV programmes, published 02 booklets, 01 issues of KVK Newsletter**,** 45nos. of diagnostic visit, 02nos. of soil health camp & soil test campaign, 02 nos. of Farmers club convenor meeting etc. programme was conducted during 2018-19.

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

The Sr. Scientist & Head presented the action plan of KVK for the year 2019-20. 12nos. of OFTs, 24nos.of FLDs, 72 nos. of trainings for farmers and farm women, 12 nos. for rural youths and 12 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 “The Shyamala” and Booklet on “Management of Betel vine Baraja& quality betel production” and “Fall Army Worm: Identification & Management”. The Chairman appreciated the overall activities of KVK.

**List of participants in the SAC Meeting: -**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No** | **Name** | **Designation** | **Address** |
|  | Sj. K. Sudarshan Chakravarthy | Collector& DM | Collectotorate, Balasore |
|  | Dr. S.K. Roy | Principal scientist | ICAR-ATARI, KOLKATA |
|  | Prof. S.S. Mohapatra | Associate Director of Research (ADR) | RRTTS Ranital |
|  | Dr. Prasannajit Mishra | JDE (Video Project) | DEE, OUAT |
|  | Dr. S.K. Mohapatra | Sr. Scientist & Head | KVK, Balasore |
|  | Samir Kumar Sahu | ACF | DFO, Balasore |
|  | Govinda Chandra Lenka | DDH, Balasore | DDH, Balasore |
|  | Nityananda Das | CDVO, Balasore | CDVO, Balasore |
|  | Dr. SanghamitraPattnaik | Sr. Scientist & Head | KVK, Mayurbhanj-I |
|  | JhunilataBhuyan | Scientist (Home Science) | KVK, Mayurbhanj-I |
|  | Sudam Kumar Nayak | PPO | DDA, Balasore |
|  | Er. A.K. Dey | Asst. Executive Engineer | Minor Irrigation Sub-division, Balasore |
|  | Malitosh das | APD | PD, Watershed, Balasore |
|  | Rashmi Ranjan Patra | ASCO-cum-PIA | ASCO, Baliapal |
|  | Jitendra Kumar Biswal | Deputy CEO | ORMAS, Balasore |
|  | Chandan Kumar Behera | DPM, DAY-NRLM/OLM | DRDA, Balasore |
|  | Dr. Debiprasad Dash | Scientist (Soil Science) | KVK, Bhadrak |
|  | Mr. Ugrasen Das | Director | RSETI-UCO Bank, Balasore |
|  | Sudeep Dakua | LDM, Balasore | LDM, Balasore |
|  | Bimal Chandra Dhal | AGM, NABARD | AGM, NABARD, Balasore |
|  | Dr. S.D. Mohapatra | Principal Scientist | ICAR-NRRI, Cuttack |
|  | G.S. Saha | Principal Scientist | ICAR-CIFA, Bhubaneswar |
|  | Manoj Kumar Sasmal | Director | Subarnabhumi FPC, Jaleswar |
|  | Swayamprava Bal | Assistant Fisheries Officer, Baliapal | DDF, Balasore |
|  | Harihar Patra | Farmer Representative | Ganja, Langaleswar |
|  | Keshabananda Dey | Farmer Representative | Ganja, Langaleswar |
|  | Ananta Kumar Rout | Farmer Representative | Dagara, Baliapal |
|  | Mrs. Arati Sahoo | Representative of Women Farmer | Sanakhuidi, Basta |
|  | N.K. Mahakul | Project Executive | Dhan Foundation |
|  | Krish Nayak | Project Executive | Dhan Foundation |
|  | Urmila Behera | Representative of Women Farmer | Machhua, Nilgiri |
|  | Dr. (Mrs) Amita Rani Patra | Scientist (Home Science) | KVK, Balasore |
|  | Ms. Pravamanjari Giri | Scientist (Agronomy) | KVK, Balasore |
|  | Dr. (Ms) Gayatree Sahoo | Scientist (Plant Protection) | KVK, Balasore |
|  | Kamalakanta Behera | Scientist (Ag. Extension) | KVK, Balasore |
|  | Mr. Niroj Kumar Jena | PA (Seed Sc. & Technology) | KVK, Balasore |
|  | Krishnamayee sethi | Farm Manager | KVK, Balasore |

2. a. **District level data on agriculture, livestock and farming situation (2019)**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Item** | **Information** |
|  | Major Farming system/enterprise | Rice-Oilseeds-Vegetables |
|  | Agro-climatic Zone | North Eastern Coastal Plain Zone |
|  | Agro ecological situation | Alluvial rain-fed |
|  | Soil type | Alluvial, Red lateritic, Saline |
|  | Productivity 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 |
|  | Mean yearly temperature, rainfall, humidity of the district | Max. 36.10C, Min. 13.70C, 1568.4mm, 75% |
|  | Production of major livestock products like milk, egg, meat etc. | Milk - 4,45,872 liters/day, Egg- 32987456nos.,Meat- 18189 MT |

Note: Please give recent data only

2. b. Details of operational area / villages (2019-20)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of Taluk** | **Name of the block** | **Name of villages** | **Major crops**  **& enterprises** | **Major problems identified (crop-wise)** | **Identified Thrust Areas** |
|  | Balasore | Remuna | Silasuan | Paddy, Vegetables, Toria, Groundnut | Submergence problem, Low yield in vegetables, | * 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 | Bahanaga | Nilakanthapur | Paddy, Toria, Vegetables | Disease pest in Rice, Non-availability of drought tolerant paddy var., Improper nutrient management I vegetables | * Diversified cropping pattern * Integrated insect pest and disease management practice * Integrated nutrient management |
|  | 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 | Sitapur | 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 (2019-20) for its development and action plan

|  |  |  |
| --- | --- | --- |
| **Name of village** | **Block** | **Action taken for development** |
| Silasuan | Remuna | Training, OFT, FLD, Awareness Programme on Schemes of Line Department |
| Nilakanthapur | Bahanaga | Training FLD Awareness Programme on Schemes of Line Department, CFLD-Toria, Animal Health Camp |
| Asanbani | Nilgiri | Training, OFT, FLD, Animal health camp, Lac cultivation, |
| Sitapur | Remuna | Training, IRRI head to head trial, FLD Awareness Programme on Schemes of Line Department |
| Haripur | Simulia | Training & FLD on Sheath blight management |

2.1 **Priority thrust areas**

|  |  |
| --- | --- |
| **Sl. No.** | **Thrust area** |
| 1. | Early, medium and flood tolerant high yielding rice varieties. |
| 2. | High yielding oilseeds cultivation technology. |
| 3. | High yielding pulse cultivation technology. |
| 4. | Commercial cultivation of coconut, banana, papaya and hybrid vegetables |
| 5. | Adoption of mushroom cultivation, beekeeping and vermi-compost. |
| 6. | Encourage organization of farmers/farmwomen & popularization of power plough, seed drills, inter culture and harvesting implements. |
| 7. | Integrated insect pest and disease management practices. |
| 8. | Profitable betel vine & Jute cultivation. |
| 9. | Artificial insemination and broiler poultry farming. |
| 10. | Intensive fish and fresh water prawn culture. |
| 11. | Wasteland aforestation with forest and medicinal plants, integrated farming and utilization of forest produce. |
| 12. | Integrated nutrient management |
| 13. | 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 |
| **12** | **08** | **84** | **3** | **0** | **0** | **0** | **53** | **0** | **56** | **0** | **56** | **22** | **20** | **220** | **26** | **11** | **0** | **10** | **123** | **30** | **149** | **51** | **200** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Training | | | | | | | | | | | | Extension activities | | | | | | | | | | | |
|  | | | | | | | | | | | |  | | | | | | | | | | | |
| Number of Courses | | Number of Participants | | | | | | | | | | Number of activities | | Number of participants | | | | | | | | | |
| 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 |
| 98 | 66 | 2700 | 155 | 144 | 28 | 73 | 996 | 463 | 1260 | 652 | 1940 |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 430 | 280 | 25 | 0 | 3 | 0 | 212 | 40 | 240 | 40 | 280 | |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Seed production (q) | | Planting material (in Lakh) | |
|  | |  | |
| Target | Achievement | Target | Achievement |
| 0.40 | 2.14 | 0.15 | 0.21 |

|  |  |  |  |
| --- | --- | --- | --- |
| Livestock strains and fish fingerlings produced (in lakh) \* | | Soil, water, plant, manures samples tested (in lakh) | |
|  | |  | |
| Target | Achievement | Target | Achievement |
| 0.010 | 0.016 | 0.010 | 0.0084 |

* \* 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 | - | - |  |  |  |  |  |
| Books | 02 | 50 |  |  |  |  |  |
| Bulletins | 12 | 600 |  |  |  |  |  |
| News letter | 02 | 1015 |  |  |  |  |  |
| Popular Articles | 02 | 50 |  |  |  |  |  |
| Book Chapter | - | - |  |  |  |  |  |
| Extension Pamphlets/ literature | 01 | 500 |  |  |  |  |  |
| Technical reports | 05 | 65 |  |  |  |  |  |
| Electronic Publication (CD/DVD etc) | 01 | 10 |  |  |  |  |  |
| TOTAL | 25 |  |  |  |  |  |  |

1 **Achievements on technologies assessed and refined**

OFT-1

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of herbicide for weed management in summer Green Gram** |
| 2. | Problem diagnosed | Yield loss due to weed infestation |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: Pre-emergence application of Pendimethalin @1000g ai/ha  TO2: Pre-emergence application of Pendimethalin @1000g ai/ha followed by early post emergence of Imazethapyr @@70gai/ha at 20 DAS  TO3: Post-emergence application of Imazethapyr @70gai/ha at 20 DAS |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | SLREC proceeding, 2011, OUAT |
| 5. | Production system and thematic area | Rice-Green gram cropping system and Integrated weed management |
| 6. | Performance of the Technology with performance indicators | Application of herbicide as pre-emergence and post-emergence effectively control weeds which result in lower weed density in crop field |
| 7. | Final recommendation for micro level situation | Post-emergence application of Imazethapyr @70gai/ha at 20 DAS effectively control weed with higher benefit cost ratio |
| 8. | Constraints identified and feedback for research | Due to continuous rainfall in the crop growing period, timely application of herbicide was a problem |
| 9. | Process of farmers participation and their reaction | Farmers are actively participated in this programme& were satisfied with the results. |

*Thematic area: Integrated weed management*

Problem definition: Low yield due to weed infestation and low net income due to high cost of cultivation in manual weeding

Technology assessed: Weed management through application of herbicide in summer Green Gram

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 branches per plant | No. of pods per plant | Test wt. (100 grain wt.) |
| Manual weeding at 25 DAS | 7 | 4.1 | 13.2 | 29 | 21 | 5.22 | 17500 | 28710 | 11210 | 1.64 |
| Pre-emergence application of Pendimethalin @1000g ai/ha | 7 | 4.2 | 13.4 | 32 | 15 | 6.87 | 16500 | 37785 | 21285 | 2.27 |
| Pre-emergence application of Pendimethalin @1000g ai/ha followed by early post emergence of Imazethapyr @@70gai/ha at 20 DAS | 7 | 4.6 | 13.3 | 34 | 12 | 7.32 | 17000 | 40260 | 23260 | 2.36 |
| Post-emergence application of Imazethapyr @70gai/ha at 20 DAS | 7 | 4.4 | 13.3 | 33 | 15 | 6.94 | 16000 | 38170 | 22170 | 2.38 |

Results: Post-emergence application of Imazethapyr at 20 DAS increases the seed yield and attain higher benefit cost ratio than Pre-emergence application of Pendimethalin at 2DAS followed by early post emergence of Imazethapyr at 20 DAS.

**OFT-2**

|  |  |  |
| --- | --- | --- |
| 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 | Rice Green gram cropping system and Varietal evaluation |
| 6. | Performance of the Technology with performance indicators | Cultivation of Hasanta decreases the pest population of BPH and WBPH and increase the grain yield per unit area |
| 7. | Final recommendation for micro level situation | Cultivation of Hasanta variety of rice which is BPH tolerant |
| 8. | Constraints identified and feedback for research | Seed availability in the local market is a problem |
| 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: Suitable 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 | 8.8 | 110 | 16 | 25 | 41.6 | 44000 | 72800 | 28800 | 1.65 |
| Hasanta | 7 | 9.4 | 121 | 5 | 5 | 49.2 | 44000 | 86100 | 42100 | 1.95 |
| Pratikshya | 7 | 9.2 | 117 | 12 | 21 | 45.6 | 44000 | 79800 | 35800 | 1.81 |

Result: Cultivation of BPH tolerant rice variety Hasanta considerably increases the grain yield by 18 % over farmers practices due to less infestation of BPH/WBPH.

OFT-3

|  |  |  |
| --- | --- | --- |
| 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:STBFR + seed coated with lime (CaCO3) @ 160g/kg seed  TO2: STBFR + 0.2 LR as CaCO3 (furrow application) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | AINP on Biodiversity and Biofertilizers,OUAT,2018-19/ 2016-17 |
| 5. | Production system and thematic area | Rice-Green gram cropping system and INM |
| 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 | STBFR + 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 farmers in the trial & were satisfied with the results. |

*Thematic area: : Integrated nutrient management*

Problem definition: Low yield of green gram in acid soil due to poor growth and nutrient uptake

Technology assessed: Seed coating and furrow application of lime on grain yield of greengram.

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 per plant | Test wt. (100 grain wt.) |
| FP | 07 | 18.1 | 4.28 | 3.57 | 16.2 | 6.15 | 25500 | 43358 | 17858 | 1.70 |
| TO-1 | 07 | 26.7 | 4.79 | 3.69 | 6.3 | 8.74 | 26000 | 61617 | 35617 | 2.37 |
| TO-2 | 07 | 26.0 | 4.72 | 3.66 | 6.7 | 8.31 | 28300 | 58586 | 30286 | 2.07 |

Results: STBFR + seed coated with lime (CaCO3) @ 160g/kg seed gave higher grain yield of Greengram with better use efficiency of lime.

**OFT-4**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of PSB and VAM in Groundnut** |
| 2. | Problem diagnosed | Low yield of Groundnut due to poor nutrient management and water stress. |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1:STBFR + *Rhizobium* @ 50g/kg seed +PSB@ 5kg/ha  TO2: STBFR + Rhizobium @ 50g/kg seed +PSB@ 5kg/ha + VAM@ 5kg/ha |
| 4. | Source of Technology | AINP on Soil Biodiversity and Biofertilizers, OUAT, 2010 |
| 5. | Production system and thematic area | Rice- Groundnut Cropping system and Integrated nutrient management |
| 6. | Performance of the Technology with performance indicators | Rhizobium helps in better nodulation and nitrogen fixation ; VAM helps in better nutrient and water availability, PSB helps in better solubilisation of fixed phosphorus |
| 7. | Final recommendation for micro level situation | For higher pod yield , in addition to STBFR practice Rhizobium seed treatment and bioinoculation of PSB and VAM |
| 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 process of the trial, the farmers shown keen interest. They learn through method demonstration. The farmers express satisfaction over the result of the trial. |

*Thematic area:* Integrated nutrient management,

Problem definition: Low yield of Groundnut due to poor nutrient management and water stress

Technology assessed: Seed treatment with Rhizobium biofertilizer and bioinoculation of PSB & VAM

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 per plant | Test wt. (100 kernel wt.) |
| FP | 07 | 21.6 | 4.28 | 46.2 | 20.1 | 20.4 | 58000 | 103836 | 45836 | 1.79 |
| TO-1 | 07 | 24.2 | 4.79 | 48.1 | 7.4 | 22.8 | 58600 | 116052 | 57452 | 1.98 |
| TO-2 | 07 | 26.0 | 4.72 | 48.6 | 6.8 | 25.6 | 60050 | 130304 | 70254 | 2.17 |

Results: STBFR along with Seed treatment with Rhizobium and bioinoculation of PSB & VAM produced higher pod yield of Groundnut.

OFT-5

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Management of Panicle mite in Paddy** |
| 2. | Problem diagnosed | Chaffy grains due to mite infestation |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | **TO1:** Two sprays of Spiromecifen 22.9 SC @1ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray.  **TO2:** Two sprays of Propargite 57EC @2ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray.  **TO3:** Two sprays of Fenazaquin 10EC @1ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | TNAU, 2015 and RRTTS, Ranital, OUAT, 2017 |
| 5. | Production system and thematic area | Use of new generation acaricide for management of an emerging problem |
| 6. | Performance of the Technology with performance indicators | EBT/ hill  Yield (q/ha), B:C ratio, |
| 7. | Final recommendation for micro level situation | Two sprays of Propargite 57EC @2ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray. |
| 8. | Constraints identified and feedback for research | Lack of availability and high cost of of new generation acaricides in the market |
| 9. | Process of farmers participation and their reaction | Farmers are curious about the use of new generation acaricides and the newly emerging pest |

*Thematic area:* IPM

Problem definition: incidence of panicle mite as an emerging problem

**Technology assessed:** Use of new generation acaricides

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. (100 grain wt.) |
| **FP:** Application of Dicofol @2ml/lit | 07 | 7.6 | 64 | 18.9 g | 67 | 38.60 | 35420 | 55970 | 20550 | 1.58 |
| **TO1:**Two sprays of Spiromecifen 22.9 SC @1ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray. | 07 | 12.3 | 76 | 23.7 | 14 | 50.8 | 41380 | 73660 | 32280 | 1.78 |
| **TO2:** Two sprays of Propargite 57EC @2ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray. | 07 | **11.8** | 71 | 23.6 | 19 | **49.9** | 39760 | 72355 | 32595 | 1.82 |
| **TO3:** Two sprays of Fenazaquin 10EC @1ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray. | 07 | 12.1 | 73 | 24.1 | 13 | 50.5 | 41850 | 73225 | 31375 | 1.75 |

**Results:** Two sprays of Propargite 57EC @2ml/lit. 1st spray before panicle initiation and 2nd one at 7-10 days after 1st spray was the best treatment with highest B:C ratio of 1.82

**OFT-6**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of integrated management of BPH/WBPH in Paddy** |
| 2. | Problem diagnosed | Low yield due to heavy occurrence of BPH/WBPH, |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | **TO1:**Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based Alternate Spraying of flonicamid 50 WG @ 150 gm /ha and neem based pesticide 3000 ppm @ 1500 ml/ha at 10 days interval.  **TO2:**Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based , Repeated with Spraying of pymetrozine 50 WG @ 120 gm/acre at 15 days interval commencing from insect appearance |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | RRTTS, Ranital,2018 |
| 5. | Production system and thematic area | IPM |
| 6. | Performance of the Technology with performance indicators | No. of BPH/WBPH / hill, EBT/ hill, Yield, B:C ratio |
| 7. | Final recommendation for micro level situation | Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based Alternate Spraying of flonicamid 50 WG @ 150 gm /ha and neem based pesticide 3000 ppm @ 1500 ml/ha at 10 days interval. |
| 8. | Constraints identified and feedback for research | Non-availability of newer insecticides in the market |
| 9. | Process of farmers participation and their reaction | Farmers are curious about the use of newer insecticide and the particular method of application of insecticides |

*Thematic area: IPM*

Problem definition: High incidence of BPH/WBPH in rice

**Technology assessed:** Integration of mechanical control methods along with use of new generation insecticides

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. (100 grain wt.) |
| **FP:** Application of Imidachloprid 17.8 SL @ 1ml/4lit water | 07 | 8.5 | 68 | 21.8 | 75 | 38.6 | 34340 | 55970 | 21630 | 1.63 |
| **TO1:**Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based Alternate Spraying of flonicamid 50 WG @ 150 gm /ha and neem based pesticide 3000 ppm @ 1500 ml/ha at 10 days interval. | 07 | 11.2 | 72 | 24.6 | 15 | 49.6 | 39740 | 71920 | 32180 | 1.81 |
| **TO2:** Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based , Repeated with Spraying of pymetrozine 50 WG @ 120 gm/acre at 15 days interval commencing from insect appearance | 07 | 11.9 | 71 | 24.2 | 23 | 50.4 | 41060 | 73080 | 32020 | 1.78 |

**Results:**Making alleys at a distance of 2 m in paddy field. use of spider trap @ 25/ha, need based Alternate Spraying of flonicamid 50 WG @ 150 gm /ha and neem based pesticide 3000 ppm @ 1500 ml/ha at 10 days interval with B:C ratio of 1.81

OFT-7

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of inter crops in teak based agro-forestry system** |
| 2. | Problem diagnosed | Waiting for monetary return for long time and non utilization of inter space. |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: Teak stumps are planted at a spacing of 8 m x 2m in eat west direction with inter cropping of cowpea in 50cm x30cm spacing.  TO2: Teak stumps are planted at a spacing of 8 m x 2m in eat west direction with inter cropping of okra in 50cm x30cm spacing. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | AICRP on Agro-forestry, OUAT -2014 |
| 5. | Production system and thematic area | Barren, Rainfed upland, Integrated Farming System |
| 6. | Performance of the Technology with performance indicators | Inter cropping of okra and cowpea give an additional income without any impact on tree growth |
| 7. | Final recommendation for micro level situation | Taking okra as inter cop give higher return with higher benefit cost ratio |
| 8. | Constraints identified and feedback for research | Due to irregular rainfall the growth of tree is suffered |
| 9. | Process of farmers participation and their reaction | Farmers are actively participated in this programme& were satisfied with the results. |

*Thematic area:* Integrated farming system

Problem definition: Waiting for monetary return for long time and non utilization of inter space.

Technology assessed: Assessment of inter crops in teak based agro-forestry system

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. (100 grain wt.) |
| FP | 7 |  |  |  |  | - | 25300 | - | - |  |
| TO-1 | 7 |  |  |  |  | 42.5 | 27200 | 42500 | 15300 | 1.56 |
| TO-2 | 7 |  |  |  |  | 76.7 | 32500 | 76700 | 44200 | 2.36 |

Result: Cultivation of okra as inter crop in teak give yield and higher net return.

OFT-8

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of long pepper and black pepper as intercrop in Arecanut plantation for additional income generation.** |
| 2. | Problem diagnosed | Mono cropping |
| 3. | Details of technologies selected for assessment | TO1: Long pepper cuttings are planted below Arecanut plantation  TO2: Black pepper cuttings are planted below Arecanut plantation |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | KAU, Thrissur, 2013-14 |
| 5. | Production system and thematic area | **Arecanut plantation/** Integrated farming system |
| 6. | Performance of the Technology with performance indicators | No. of fruits or drupes/ vine Cost of intervention. Additional income over additional investment Yield (q/ha), B:C ratio |
| 7. | Final recommendation for micro level situation | Continuing |
| 8. | Constraints identified and feedback for research | - |
| 9. | Process of farmers participation and their reaction | Farmers are actively participated in this programme |

*Thematic area:* Integrated farming system

Problem definition: Mono cropping of Arecanut and non utilization of inter space

Technology assessed: Assessment of long pepper and black pepper as intercrop in Arecanut plantation for additional income generation.

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 branches/plant | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP | 7 | - | - | - |  |  |  |  |  |  |
| TO-1: Long pepper cuttings are planted below Arecanut plantation | 7 | 5.8 |  |  |  | Continuing |  |  |  |  |
| TO2: Black pepper cuttings are planted below Arecanut plantation | 7 | 3.2 |  |  |  | Continuing |  |  |  |  |

Result: The OFT is going on and the result will be come after 3 year. But the growth of long pepper is better than black pepper.

3.2 **Achievements of Frontline Demonstrations**

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 |  |
|  | Rice | IWM | Demonstration of Early post emergence application of Bensulfuron methyl 0.6% + Pretilachlor 6% GR @ 10kg/ha at 5 DAT followed by hand weeding at 30 DAS | 2 | 2 | 3 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 10 |  |
|  | Rice | Varietal evaluation | Demonstration of Submergence tolerance rice variety which can tolerate up to 2 weeks of submergence having maturity duration 125 days and yield potential of 5.5 to 6 t/ha | 2 | 2 | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 |  |
|  | Tomato | IWM | Demonstration of (soil solarization) transparent polyethylene (TPE) of 50 micron thickness laid close to the soil surface to trap heat inside, resulting in raising of soil temperature to lethal level to many pathogens, nematodes and weed species | 0.25 | 0.25 | 2 | 0 | 0 | 0 | 8 | 0 | 10 | 0 | 10 |  |
|  | Rice | Organic Cultivation | Demonstration on organic nutrient management in aromatic rice: Green manuring followed by soil application of Azospirillium+PSB (each@5kg/ha) incubated with FYM, neem cake @1q/ha | 2 | 2 | 3 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 10 |  |
|  | Rice | INM | Soil test based fertilizer application of NPK+ Basal application of 25 kg Sulphur /ha | 2.0 | 2.0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Betel vine | INM | STBFR+ 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 | 0 | 0 | 0 | 0 | 9 | 1 | 9 | 1 | 10 |  |
|  | Tomato | INM | STBFR+ 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 | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Jute | Production technology | Use of CRIJAF Sona culture @ 25kg/ha for retting jute bundles after harvest | 1.0 | 1.0 | 1 | 0 | 0 | 0 | 9 | 0 | 10 | 0 | 10 |  |
|  | Brinjal | IPM | Pheromone trap@1 for 400 sq.m. + weekly release of 50,000 to 60,000 *Trichogramma chilonis* + two sprays of  BT @1ml/L at 10 days interval at peak flowering | 1.0 | 1.0 | 1 | 0 | 0 | 0 | 9 | 0 | 10 | 0 | 10 |  |
|  | Okra | IPM | Seed Treatment with Imidacloprid 600 FS @ 5 gm / Kg, Installation of Yellow Sticky Trap @ 50 / ha and spraying Acetamiprid 20 SP @ 0.3 gm / Lit. at 30 and 45 DAS | 1.0 | 1.0 | 1 | 0 | 0 | 0 | 9 | 0 | 10 | 0 | 10 |  |
|  | Betel vine | IDM | Soil application of *Trichoderma viridae* incubated with FYM(2.5kg+50Kg). Spraying of copper oxychloride @ 3gm/lit water | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Paddy | IPM | Nursery treatment with carbofuran 3G@ 1.5kg a.i./ha + Pheromone trap @5Nos./ha for monitoring + soil application of Rynaxypyr 4G @ 10kg/ha and Spraying of cartap hydrochloride 50WP @ 2g/ltr at 45 DAT | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Acacia/ Hybrid napier | Integrated farming system | Intercropping of Hybrid napier in inter rows of existing Acacia plantation | .15 | .15 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Flemingia | Production system | Demonstration on Flemingia as host plant for kusumi lac cultivation in waste land | .4 | .4 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Malabar neem | Production System | Block plantation of malabar neem in a spacing of | 1 | 1 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 10 | 10 |  |
|  | Teak and turmeric | Integrated farming system | Rajendra-sonia variety of turmeric is planted in the inter spacing of 30cm x30cm in the inter rows of teak plantation | .1 | .1 | 1 | 0 | 1 | 0 | 8 | 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, 2019 | Rice-greengram (Irrigated) | Clay loam | 315 | 19.5 | 185 | Greengram | 03.07.2019 | 26.12.2019 | 954 | 38 |
| Rice | Kharif, 2019 | Rice-greengram (Flash flood, irrigated) | Sandy loam | 276 | 18 | 206 | Greengram | 09.07.2019 | 15.12.2019 | 1184 | 41 |
| Tomato nursery | Summer, 2020 | Rice-vegetables (Irrigated) | Silty clay | 345 | 21.5 | 236 | Rice | 23.05.2020 | continuing | 12 | 3 |
| Rice | Kharif, 2019 | Rice-greengram (Irrigated) | Clay loam | 310 | 20 | 208 | Greengram | 02.07.2019 | 25.12.2019 | 1065 | 37 |
| Rice | Kharif,2019 | RF | Alluvial,Sandy loam | 306 | 14.2 | 143 | Greengram | 1.7.2019 | 22.11.2019 | 960 | 44 |
| Betel vine | Rabi,2019-20 | Irrigated | Alluvial Sandy | 466 | 18.2 | 148 | Betel vine | 3rd year Baraj | Periodic harvesting | 456 | 26 |
| Tomato | Rabi,2019-20 | Irrigated | Alluvial, Sandy loam | 482 | 20.6 | 164 | Rice | 25.12.19 | 15.2.20 to 20.4.20 | 85 | 15 |
| Jute | Kharif,2019 | Irrigated | Alluvial, Sandy loam | 356 | 14.7 | 152 | Tomato | 1.5.19 | 1.9.19 | 835 | 37 |
| Brinjal | Kharif,2019 | Irrigated | Alluvial, Sandy loam | 354 | 16.5 | 165 | Ridge gourd | 4.07.19 | 21.09.19 | 867 | 34 |
| Okra | Kharif,2019 | Irrigated | Alluvial, Sandy loam | 453 | 12.7 | 154 | Brinjal | 05.05.19 | 15.08.19 | 972 | 42 |
| Betel vine | Kharif,2019 | Irrigated | Sandy loam | 368 | 18.9 | 158 | Betel vine | 2nd year Baraj | continuing | 451 | 22 |
| Paddy | Rabi,2019-20 | Rice- Rice (Irrigated) | Alluvial, Sandy loam | 363 | 19 | 148 | Paddy | 28.06.19 | 15.05.20 | 24 | 4 |
| Acacia/ Hybrid napier | Kharif, 2019 | Rain fed upland/ Barren land | Alluvial, Sandy loam | 289 | 14 | 138 | Acacia | 26.08.19 | 02.11.19 | 756 | 34 |
| Flemingia | Kharif, 2019 | Rain fed upland/ Barren land | Alluvial, Sandy loam | 321 | 11 | 143 | - | 31.08.19 | Damaged due to Amphan | 876 | 41 |
| Malabar neem | Kharif, 2019 | Rain fed upland/ Barren land | Alluvial, Sandy loam | 426 | 15 | 156 | - | 2.09.19 | Damaged due to Amphan | 920 | 48 |
| Teak and turmeric | Kharif, 2019 | Rain fed upland/ Barren land | Alluvial, Sandy loam | 385 | 17 | 162 | - | 4.06.19 | 10.03.20 | 980 | 52 |

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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

Pulses   
Frontline demonstration on pulse crops

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area  (ha) | Yield (q/ha) | | % Increase | \*Economics of demonstration (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 | IWM | Demonstration of Early post emergence application of Bensulfuron methyl 0.6% + Pretilachlor 6% GR @ 10kg/ha at 5 DAT followed by hand weeding at 30 DAS | 10 | 2 | 53.4 | 45.3 | 17.8 | 10 No. of plants/hill | 8 No. of plants/hill | 43000 | 93450 | 50450 | 2.17 | 46000 | 79275 | 33275 | 1.72 |
| Rice | Varietal ivaluation | Demonstration of Submergence tolerance rice variety which can tolerate up to 2 weeks of submergence having maturity duration 125 days and yield potential of 5.5 to 6 t/ha | 10 | 2 | 54.1 | 39.4 | 37.3 | 12 No. of plants/hill | 10 No. of plants/hill | 44000 | 91970 | 47970 | 2.09 | 44000 | 66980 | 22980 | 1.52 |
| Tomato nursery | IWM | Demonstration of (soil solarization) transparent polyethylene (TPE) of 50 micron thickness laid close to the soil surface to trap heat inside, resulting in raising of soil temperature to lethal level to many pathogens, nematodes and weed species | 10 | 0.25 |  |  |  | Continuing |  |  |  |  |  |  |  |  |  |
| Rice | Organic Cultivation | Demonstration on organic nutrient management in aromatic rice: Green manuring followed by soil application of Azospirillium+PSB (each@5kg/ha) incubated with FYM, neem cake @1q/ha | 10 | 2 | 40.6 | 35.2 | 15.34 | 10 No. of plants/hill | 9 No. of plants/hill | 45000 | 85260 | 40260 | 1.89 | 45000 | 73920 | 28920 | 1.64 |
| Rice | INM | Sulphur application in transplanted Rice | 10 | 2.0 | 50.9 | 43.2 | 17.82 | EBT /Hill-12.1 | 9.2 | 46500 | 92384 | 45884 | 1.98 | 44750 | 78408 | 33658 | 1.75 |
| Betel vine | INM | Application of zinc and Triacontanol in betel vine | 10 | 1.0 | 54.6\* | 48.2 | 13.27 | No. of leaves/ vine 54.1\* | 46.3\* | 1750000 | 2730000 | 980000 | 1.56 | 1745000 | 2410000 | 665000 | 1.38 |
| Tomato | INM | INM in Tomato | 10 | 1.0 | 425.9 | 362.8 | 17.39 | No. of fruits/ plant 50.8 | 43.6 | 123000 | 4259000 | 302900 | 3.46 | 120000 | 362800 | 242800 | 3.02 |
| Jute | Production technology | Jute retting through use of CRIJAF Sona culture | 10 | 1.0 | 20.2 | 19.4 | 4.12 | Retting period 14 days | 21 days | 32500 | 70700 | 38200 | 2.18 | 30000 | 58200 | 28200 | 1.94 |
| Rice | IPM | Nursery treatment with carbofuran 3G@ 1.5kg a.i./ha + Pheromone trap @5Nos./ha for monitoring + soil application of Rynaxypyr 4G @ 10kg/ha and Spraying of cartap hydrochloride 50WP @ 2g/ltr at 45 DAT | 10 | 1.0 | 53.1 | 41.3 | 28.57 | Dead heart % 6.52 | 12.89 | 43750 | 76995 | 33245 | 1.76 | 38890 | 59885 | 20995 | 1.54 |
| Betel vine | IPM | Soil application of *Trichoderma viridae* incubated with FYM(2.5kg+50Kg). Spraying of copper oxychloride @ 3gm/lit water | 10 | 01 ha | 57.60  Lakh leaf/ ha | 48.95  Lakh leaf/ ha | 17.67  Leaves/ vine | 56.8 | 43.3  Leaves/ vine | 1788830 | 2880000 | 1091170 | 1.61 | 1735810 | 2447500 | 711690 | 1.41 |
| Okra | IPM | Seed Treatment with Imidacloprid 600 FS @ 5 gm / Kg, Installation of Yellow Sticky Trap @ 50 / ha and spraying Acetamiprid 20 SP @ 0.3 gm / Lit. at 30 and 45 DAS | 10 | 01 ha | 182.40  q/ha | 131.38  q/ha | 38.83 | 13.8  Fruits /plant | 8.2  Fruits /plant | 84450 | 182400 | 97960 | 2.16 | 81600 | 131380 | 49780 | 1.61 |
| Brinjal | IPM | Pheromone trap@1 for 400 sq.m. + weekly release of 50,000 to 60,000 *Trichogramma chilonis* + two sprays of  BT @1ml/L at 10 days interval at peak flowering | 10 | 01 ha | 262.30  q/ha | 201.10  q/ha | 30.43 | 4.50% fruit infestation | 23.90% | 203875 | 393450 | 189575 | 1.93 | 198460 | 301650 | 103190 | 1.52 |
| Acacia/ Hybrid napier | Integrated farming system | Intercropping of Hybrid napier in inter rows of existing Acacia plantation | 10 | .15 | 827 | 0 | 100 |  |  | 28500 | 82700 | 54200 | 2.90 | - | - | - | - |
| Flemingia | Production system | Demonstration on Flemingia as host plant for kusumi lac cultivation in waste land | 10 | .4 |  |  |  |  |  | Damage due to amphan | Damaged due to amphan |  |  |  |  |  |  |
| Malabar neem | Production System | Block plantation of malabar neem in a spacing of | 10 | 1 |  |  |  |  |  | Damage due to Amphan cyclone | Damaged due to amphan |  |  |  |  |  |  |
| TEAK and turmeric | Integrated farming system | Rajendra-sonia variety of turmeric is planted in the inter spacing of 30cm x30cm in the inter rows of teak plantation | 10 | .1 | 162 | 0 | 100 |  |  | 137000 | 405000 | 268000 | 2.96 |  |  |  |  |
|  | Total | |  |  |  | | | | | | | | | | | | |

\*Leaf yield (No.) lakhs/ha

Livestock

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic  area | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| 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 | Rearing of kadaknath poultry breed in backyard | 10 | 10 | Body weght-eggs per year | Body Weight  Eggs per year | continuing |  |  |  |  |  |  |  |  |  |  |
| Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigerry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  | 10 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* 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 | Demonstration on oyster mushroom variety Hypisizygous ulmarius | 10 | 10 | Yield/bed -3.9kg | Yield/bed-2.5kg | 56.0 | Days of fruiting-18days | Days of fruiting-20 days | 35/- per bed | 117/- per bed | 82/- per bed | 3.3 | 35/- per bed | 75/- per bed | 40/- per bed | 2.14 |
| Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dairy (value addition of milk) | Demonstration on value added products of milk (paneer) for higher income | 10 | 10 |  | Paneer produced per 1 litre milk-180gram |  | Shelf life-2days in room temp | Shelf life 8to 10 hour in room temp | 35/- per 1lit milk | 45/- per 1 lit milk | 10/- per 1 litre milk | 1.28 | 2 6/-per 1litre milk | 29/- per 1 litre milk | 3/- per 1 litre milk | 1.11 |
| 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(farm family) | Demonstration of nutritional garden for nutritional security of farm family | 10 | Avg consumption of vegetables per day per meber-380gram | Consumption of vegetables per day/member-230gram | Members of Farm famiy were able to consume varieties of vegetables to meet their nutritional requirements |
| 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 the 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** |
| 1 | Rice | Integrated weed management in rice helps in better weed control along with higher productivity. |
| 2 | Rice | Cultivation of submergence tolerant rice variety bina dhan 11 drastically increase crop yield under flash flood situation |
| 3 | Rice | Due to continuous application of sulphur free fertilizers there is wide spread sulphur deficiency in soil. There is a need to apply sulphur for higher yield of rice. |
| 4 | Betel vine | Due to application of Triacontanol and zinc , the betel vine plant withstand cold temperature in addition to better growth of plants |
| 5 | Tomato | Integrated nutrient management in Tomato helps in better soil health, higher yield and quality. |
| 6 | Jute | Microbial consortium in CRIJAF sona helps in retting of Jute and retting period decreased by 7 days. |
| 7 | Betel vine | Use of bioagent *Trichoderma viridae* resulted in better management of the vine rot disease |
| 8 | Okra | Use of yellow sticky traps resulted in better management of whitefly for the management of YVMV disease |
| 9 | Brinjal | Bio intensive pest management method resulted better management of the brinjal fruit shoot borer infestation |
| 10 | Rice | Nursery treatment resulted in better management of stem borer in summer paddy |
| 11 | Teak | Intercropping of turmeric in teak plantation gave additional income of 268000 /- per ha |
| 12 | Acacia | Intercropping of hybrid napier in acacia plantation gave additional income of 54200/- per ha |

Extension and Training activities under FLD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Activity | Date | No. of activities organized | Number of participants | Remarks |
|  | Field days | - | - | - | - |
|  | Farmers Training | 24.07.19 | 1 | 30 | Micro and secondary nutrient application in rice. |
| 27.01.20 | 1 | 30 | INM in Tomato |
| 28.01.20 | 1 | 30 | Integrated stem borer management in summer paddy |
| 20.08.19 | 1 | 30 | IDM in betelvine |
| 16.11.19 | 1 | 30 | Oyster mushroom cultivation |
| 21.12.19 | 1 | 30 | Layout of nutritional garden for farm family |
| 06.02.20 | 1 | 30 | Preparation of value added product from milk |
| 25.02.20 | 1 | 30 | Rearing of kadaknath poultry bird for income generation |
| 24.10.19 | 1 | 30 | Packages and practices of flemingia in waste land |
|  | Media coverage | - | - | - | - |
|  | Training for extension functionaries | - | - | - | - |

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif, 2019 and Rabi 2019**

**TORIA (Oilseed)**

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 |
| 01 | Toria | M-27 | 6.2 | 490 | 420 | 1000 | * Toria var. Uttara * Early planting by 15th November * Postemergence application of Quizalofop-p-ethyl (5%) @ 2ml/ltr water at 20DAS * Foliar spray of Borax (10.5% Boron) @ 2.5g/ltr water at flowering stage * Foliar spraying of Flonicamid 50 WG@ 0.3g/ltr water at flowering stage for Aphid Management * Foliar spraying of Emamectin Benzoate 5% @ 0.4g/ltr water at pod formation stage for Spodoptera pod borer management * Foliar spraying of Hexaconazole 5%EC@ 2ml/ltr water at pod formation stage for stem rot & leaf spot management * Use of pheromone trap@ 5nos./ha for monitoring of Spodoptera population | 180 | 70 | 9.4 | 7.6 | **8.5** | 73.47 | 102.38 | -15 |

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** |
| **01** | * Toria var. Uttara * Seed Treatment with Vitavax Power@ 2g/kg of seed * Soil test based balanced nutrient application, * Post emergence application of Quizalofop-p-ethyl (5%) @ 2ml/ltr water at 20DAS * Foliar spray of Borax (10.5% Boron) @ 2.5g/ltr water at flowering stage * Foliar spraying of Flonicamid 50 WG@ 0.3g/ltr water at flowering stage for Aphid Management * Foliar spraying of Emamectin Benzoate 5% @ 0.4g/ltr water at pod formation stage for Spodoptera pod borer management * Foliar spraying of Hexaconazole 5%EC@ 2ml/ltr water at pod formation stage for stem rot & leaf spot management * Use of pheromone trap@ 5nos./ha for monitoring of Spodoptera population | 15000 | 21700 | 6700 | 1.45 | 16200 | 31450 | 15250 | 1.94 |

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 (Mandays/house hold)** |
| 01 | Toria var. Uttara | 9400 | 8500 | 37 | 20 | 880 | Repayment of loan, House hold Expenses | 43 |

1. **Oilseed 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** |
| 01 | Package demonstration in Toria | Best suited after Kharif vegetable/Jute/Rice | Application of Boron | 75 | No | 95 | 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** |
| HYV of Toria var. Uttara | An average yield of 8.5q/ha is obtained | An average yield of 8.5q/ha is obtained from CFLD plot which is 2.3q more than the farmers’ variety. | Uttara var. is very much suitable for rain-fed reas of Balasore district. Due to bold seed, selling rate is Rs40/kg where as the selling price of their own seed is Rs 35/kg |
| Application Borax (10.5% Boron) @ 2.5g/ltr water at flowering stage | Yield improvement as high as 9.4q/ha is recorded in boron applied plot | An yield increase of 37.09% over local check is observed | Water soluble fertilizers & micronutrients (Zinc, Boron, Sulphur) should be made available through licensed input dealers |
| Early sowing followed by spraying of Flonicamid 50 WG@ 0.3g/ltr water at flowering stage for Aphid Management | Around 60-70% reduction in yield loss is recorded | In aphid infested field, an average yield of 7.6q/ha is obtained which is 22.5% more than farmers own variety | Aphid attack is very low due to combined use of this technique |
| Monitoring of pest through use of Pheromone trap followed by need based spraying of Emamectin Benzoate 5% @ 0.4g/ltr water at pod formation stage | Around 80% reduction in yield loss is recorded | An average yield of 8.5q/ha is obtained from CFLD plot than the farmers technology (only spraying of chemical pesticide) | Mature pod & bold seed is harvested due minimum occurrence of pod borer pest |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Extension Activities organized** | **Date and place of activity** | **Number of farmers attended** |
| **01** | 1. Group Meeting 2. Group Meeting 3. Group Meeting 4. Training (1 no.) 5. Method demonstration of pheromone trap 6. Method demonstration of pheromone trap 7. Method demonstration of pheromone trap 8. Training (1 no.) 9. Field day (1no.) | 1. 16-11-2019 - Gadsahi-Baliapal, Jaleswar 2. 18-11-2019 - Bishnupur, Baliapal 3. 06-12-2019 - Bahanaga 4. 14-01-2020 - Gadsahi-Baliapal, Jaleswar 5. 02-01-2020 - Gadsahi-Baliapal, Jaleswar 6. 22-01-2020 - Dumichak, Baliapal 7. 28-01-2020 - Bishnupur, Baliapal 8. 17-01-2020 - KVK Campus (Bishnupur, Nuagan, Dumichak) 9. 08-03-2020 - Gadsahi-Baliapal, Jaleswar | 1. 57 2. 100 3. 32 4. 60 5. 57 6. 15 7. 74 8. 60 9. 60 |

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

**J. Details of budget utilization**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop | Items | Budget Received (Rs.) | Budget Utilization (Rs.) | Balance (Rs.) |
| Toria | i) Critical input | 375830 | 375832 | Nil |
| ii) TA/DA/POL/Audit charge etc. for monitoring | 1200 | 1200 | Nil |
| iii) Extension Activities (Training/Field day) | 17576 | 17576 | Nil |
| iv)Publication of literature | 25392 | 25392 | Nil |
|  | **Total** | **420000** | **420000** | **Nil** |

**GROUNDNUT (Oilseed)**

**A. Technical Parameters:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield  (q/ha) | Yield gap (Kg/ha)  w.r.to | | | Name of Variety + Technology  demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized  (%) | | |
| District  yield (D) | State  yield (S) | Potential  yield (P) |
| Max. | Min. | Av. | D | S | P |
| 1 | Groundnut | AK-12- 24 | 18.4 | 19.44 | 17.87 | 30.00 | * Certified class seed of Groundnut var. Dharani@ 175kg pods/ha * Seed treatment with vitavax power@ 2g/kg seed * Seed inoculation with rhizobium culture@ 50g/kg seed * Soil test based balanced nutrient application * Foliar spraying of Ridomil gold (metalaxyl+mancozeb)@ 2.5g/ltr water for management of Tikka & root rot at pod formation stage * Application of Imazethapyr at 20 DAS @1l/ha for broad spectrum weed control | 125 | 50 | 28.2 | 21.5 | 24.5 | -5.06 | -6.03 | 5.5 |

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 | * Certified class seed of Groundnut var. Dharani@ 175kg pods/ha * Seed treatment with Vitavax power@ 2g/kg seed * Seed inoculation with rhizobium culture@ 50g/kg seed * Soil test based balanced nutrient application * Foliar spraying of Ridomil gold (metalaxyl+mancozeb)@ 2.5g/ltr water for management of Tikka & root rot at pod formation stage * Application of Imazethapyr at 20 DAS @1l/ha for broad spectrum weed control | 42500 | 82800 | 40300 | 1.95 | 48000 | 110268 | 62268 | 2.29 |

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 (Mandays/house hold)** |
| 1 | Groundnut (Dharani) | 24504 | 2000 | 45 | 500 | 350 | Household purpose and towards repayment of loan | 105 |

1. **Oilseed 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 | * Certified class seed of Groundnut var. Dharani@ 175kg pods/ha * Seed treatment with vitavax power@ 2g/kg seed * Seed inoculation with rhizobium culture@ 50g/kg seed * Soil test based balanced nutrient application * Foliar spraying of Ridomil gold (Metalaxyl+Mancozeb)@ 2.5g/ltr water for management of Tikka & root rot at pod formation stage * Application of Imazethapyr at 20 DAS @1l/ha for broad spectrum weed control | Best suited after Kharif Paddy | 80 % | 70% | No | 80% | 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** |
| **Groundnut**   * Seed treatment with Vitavax power@ 2g/kg seed * Seed inoculation with rhizobium culture@ 50g/kg seed * Soil test based balanced nutrient application * Tikka and root rot Management * Broad spectrum weed control | * Seed treatment with vitavax power prevents early seedling rot * Seed inoculation with rhizobium culture helps In better nodulation & nitrogen fixation * Micronutrient deficiency can be alleviated by soil test based balanced nutrient application * Foliar spraying of Ridomil gold (metalaxyl+mancozeb)@ 2.5g/ltr water for management of Tikka & root rot at pod formation stage * Application of imazethapyr at 20 DAS @1l/ha for broad spectrum weed control | Application of imazethapyr at 20 DAS @1l/ha effectively control broad spectrum weed and along with IPM& INM practices increases the yield by 33% over local check. | * Emphasis should be given for market linkage in addition to technology demonstration * New HYV with dormancy to avoid viviparous germination due to untimely rain during harvesting |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Extension Activities organized** | **Date and place of activity** | **Number of farmer attended** |
| 1 | Group meeting | 10.01.2020 (Dagara, Baliapal) | 28 |
| 2 | Group meeting | 14.02.2020 (Dagara, Baliapal) | 65 |
| 3 | Group meeting | 28.02.2020 (Dagara, Baliapal) | 35 |
| 4 | Training | 20.03.2020 (Dagara, Baliapal) | 50 |

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.**

**J. Details of budget utilization**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Crop** | **Items** | **Budget Received (Rs.)** | **Budget Utilization (Rs.)** | **Balance (Rs.)** |
| Groundnut | i) Critical input | 5,41,000 | 5,41,000 | 0 |
| ii) TA/DA/POL etc. for monitoring | 425 | 425 | 0 |
| iii) Extension Activities (Field day) including training | 48,375 | 4,750 | 43,625 |
| iv)Publication of literature | 10,200 | 10,200 | 0 |
|  | **Total** | **6,00,000** | **5,56,375** | **43,625** |

**Green Gram (Pulse)**

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 |
| 01. | Green gram | Kali muga | 5.2 | 454 | 476 | 735 | IPM-02-03 | 27 | 10 | 8.26 | 5.61 | 6.93 | +32.03 | +28.74 | -10.03 |

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** |
| 01 | Green gram  (IPM-02-03) | 15,480/-/- | 26,000/- | 10,520/- | 1.68 | 16800/- | 33400/- | 16,600/- | 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 (Mandays/house hold)** |
| 01 | Green gram  (IPM-02-03) | 680 kg | 450 kg | 50/- | 150 kg | 80kg | To mitigate daily requirement and investment for next crop etc. | 21 |

1. **Oilseed 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 is not available in local market |
| 2 | Package demonstration | Best suited after Kharif Paddy | Use of Yellow sticky trap for managing sucking pests especially whitefly | Yes | No | Yes | Critical input is not available plentily in local market. |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Specific Characteristic** | **Performance** | **Performance of Technology vis-a vis Local Check** | **Farmers Feedback** |
| IPM-02-03, the demonstrated variety is resistant to YVMV | YVMV infestation is very less | The local check is very susceptible to YVMV | The variety perform better yield due to less infestation of YVMV |
| Line sowing | Better plant growth, weed control and pod setting | Difficulty in weeding and picking of pods | The cost of cultivation increases |
| Seed inoculation with Rhizobium culture and PSB | The size as well as the number of nodules are increased | Nodule number and size was less in the plant, where seed was not treated with rhizobium culture | Bio-fertilizers are not locally available in the market |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Extension Activities organized** | **Date and place of activity** | **Number of farmer attended** |
| 01 | Field visits | **12.03.2020** | **15** |
| 02 | **Training** | **-** | **-** |
| 03 | **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.**

**J. Details of budget utilization**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Crop** | **Items** | **Budget**  **Received**  **(Rs.)** | **Budget**  **Utilization**  **(Rs.)** | **Balance**  **(Rs.)** |
| Green gram | i) Critical input | 76784 | 76784 | Nil |
| ii) TA/DA/POL etc. for monitoring | 4216 | 4216 | Nil |
| iii) Extension Activities (Field day) | 5000 | 0 | 5000 |
| iv)Publication of literature | 4000 | 4000 | Nil |
|  | Total | 90,000/- | 85000 | 5000 |

* 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 |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation/irrigation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production | 1 | 54 | 6 | 60 | 0 | 0 | | 0 | 0 | 0 | 0 | 54 | 6 | 60 |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management | 1 | 8 | 10 | 18 | 0 | 0 | | 0 | 0 | 0 | 0 | 16 | 14 | 30 |
| Soil & water conservation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total | **2** | **62** | **16** | **78** | **0** | **0** | | **0** | **0** | **0** | **0** | **70** | **20** | **90** |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Off0season vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (a) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (b) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (c) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (d) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (e) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (f) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total(a-g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Balance Use of fertilizer |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil & water testing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Feed & fodder technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing & cooking |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women empowerment |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Location specific drudgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VI. Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Farm machinery & its maintenance |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | 01 | 21 | 8 | 29 | 01 | 0 | | 01 | 0 | 0 | 0 | 22 | 8 | 30 |
| Integrated Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Bio0control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **01** | **21** | **8** | **29** | **01** | **0** | | **01** | **0** | **0** | **0** | **22** | **8** | **30** |
| **VIII. Fisheries** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Input at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio0fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi0compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee0colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **XI. Agro forestry** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **GRAND TOTAL** | 03 | 83 | 24 | 107 | 1 | | 0 | 1 | 0 | 0 | 0 | 92 | 28 | 120 |

**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** |
| Nursery Management of Horticulture crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Training and pruning of orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation of vegetable crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Commercial fruit production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs | 1 | 17 | 01 | 18 | 02 | | 0 | 02 | 0 | 0 | 0 | 19 | 01 | 20 |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom Production | 1 | 16 | 2 | 18 | 2 | | 0 | 2 | 0 | 0 | 0 | 18 | 2 | 20 |
| Beekeeping | 1 | 8 | 8 | 16 | 2 | | 0 | 2 | 2 | 0 | 2 | 12 | 8 | 20 |
| Sericulture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small scale processing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Tailoring and Stitching |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Dairying |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sheep and goat rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Quail farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rabbit farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Poultry production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Ornamental fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Cold water fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **3** | **41** | **11** | **52** | **6** | | **0** | **6** | **2** | **0** | **2** | **49** | **11** | **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 | 02 | 11 | 0 | 11 | 1 | | 0 | 1 | 0 | 0 | 0 | 33 | 7 | 40 |
| Integrated Pest Management | 02 | 24 | 10 | 34 | 02 | | 01 | 03 | 01 | 02 | 03 | 27 | 13 | 40 |
| Integrated Nutrient management | 1 | 14 | 4 | 18 | 1 | | 0 | 1 | 1 | 0 | 1 | 16 | 4 | 20 |
| Rejuvenation of old orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Women and Child care | 1 | 0 | 14 | 14 | 0 | | 3 | 3 | 0 | 3 | 3 | 0 | 20 | 20 |
| Low cost and nutrient efficient diet designing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Management in farm animals |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Other | 1 | 12 | 4 | 16 | 2 | | 1 | 3 | 1 | 0 | 1 | 15 | 5 | 20 |
| **Total** | **7** | **61** | **32** | **93** | **6** | | **5** | **11** | **3** | **5** | **8** | **91** | **49** | **140** |

**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 | 04 | 67 | 1 | 68 | 14 | 2 | | 16 | 0 | 0 | 0 | 116 | 4 | 120 |
| Resource Conservation Technologies | 01 | 0 | 0 | 0 | 28 | 0 | | 28 | 2 | 0 | 2 | 30 | 0 | 30 |
| Cropping Systems | 01 | 12 | 0 | 12 | 3 | 0 | | 3 | 0 | 0 | 0 | 30 | 0 | 30 |
| Crop Diversification |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation/irrigation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production | 01 | 60 | 0 | 60 | 0 | 0 | | 0 | 0 | 0 | 0 | 60 | 0 | 60 |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management | 03 | 43 | 8 | 51 | 16 | 3 | | 19 | 0 | 0 | 0 | 67 | 23 | 90 |
| Soil & water conservation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total | **10** | **182** | **9** | **191** | **61** | **5** | | **66** | **2** | **0** | **2** | **303** | **27** | **330** |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Off0season vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (a) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (b) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (c) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (d) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (e) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (f) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total(a-g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 3 | 71 | 13 | 84 | 5 | 0 | | 5 | 1 | 0 | 1 | 77 | 13 | 90 |
| Production and use of organic inputs | 1 | 18 | 11 | 29 | 1 | 0 | | 1 | 0 | 0 | 0 | 19 | 11 | 30 |
| Management of Problematic soils | 1 | 5 | 3 | 8 | 9 | 13 | | 22 | 0 | 0 | 0 | 14 | 16 | 30 |
| Micro nutrient deficiency in crops | 1 | 25 | 1 | 26 | 4 | 0 | | 4 | 0 | 0 | 0 | 29 | 1 | 30 |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Balance Use of fertilizer |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil & water testing | 1 | 22 | 6 | 28 | 2 | 0 | | 2 | 0 | 0 | 0 | 24 | 6 | 30 |
| others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | 7 | 141 | 34 | 175 | 21 | 13 | | 34 | 1 | 0 | 1 | 163 | 47 | 210 |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Feed & fodder technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 2 | 0 | 57 | 57 | 0 | 0 | | 0 | 0 | 3 | 3 | 0 | 60 | 60 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet | 1 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 30 | 30 | 0 | 30 | 30 |
| Minimization of nutrient loss in processing | 1 | 0 | 30 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 30 | 30 |
| Processing & cooking |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition | 2 | 0 | 59 | 59 | 0 | 1 | | 1 | 0 | 0 | 0 | 0 | 60 | 60 |
| Women empowerment | 4 | 0 | 53 | 53 | 0 | 62 | | 62 | 0 | 5 | 5 | 0 | 120 | 120 |
| Location specific drudgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **10** | **0** | **199** | **199** | **0** | **63** | | **63** | **0** | **38** | **38** | **0** | **300** | **300** |
| **VI. Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Farm machinery & its maintenance |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | 8 | 96 | 79 | 175 | 26 | 22 | | 48 | 9 | 8 | 17 | 131 | 109 | 240 |
| Integrated Disease Management | 2 | 39 | 13 | 52 | 4 | 2 | | 6 | 2 | 0 | 2 | 45 | 15 | 60 |
| Bio0control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **10** | **135** | **92** | **227** | **30** | **24** | | **54** | **11** | **8** | **19** | **176** | **124** | **300** |
| **VIII. Fisheries** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Input at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio0agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio0pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio0fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi0compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee0colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics | 1 | 26 | 4 | 30 | 0 | | 0 | 0 | 0 | 0 | 0 | 26 | 4 | 30 |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths | 1 | 30 | 0 | 30 | 0 | | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **2** | **56** | **4** | **60** | **0** | | **0** | **0** | **0** | **0** | **0** | **56** | **4** | **60** |
| **XI. Agro forestry** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies | 5 | 95 | 16 | 111 | 9 | | 0 | 9 | 8 | 22 | 30 | 104 | 16 | 150 |
| Nursery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming Systems | 3 | 64 | 16 | 80 | 6 | | 4 | 10 | 0 | 0 | 0 | 70 | 20 | 90 |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **8** | **159** | **32** | **191** | **15** | | **4** | **19** | **8** | **22** | **30** | **174** | **36** | **240** |
| **XII. Others** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **GRAND TOTAL** | **47** | **673** | **370** | **1043** | **127** | | **109** | **236** | **22** | **68** | **90** | **872** | **538** | **1440** |

**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** |
| Nursery Management of Horticulture crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Training and pruning of orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation of vegetable crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Commercial fruit production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Beekeeping |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small scale processing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Tailoring and Stitching |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Dairying |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sheep and goat rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Quail farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rabbit farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Poultry production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Ornamental fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Cold water fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Women and Child care |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Management in farm animals |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Other |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **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 | 04 | 67 | 1 | 68 | 14 | 2 | | 16 | 0 | 0 | 0 | 116 | 4 | 120 |
| Resource Conservation Technologies | 01 | 0 | 0 | 0 | 28 | 0 | | 28 | 2 | 0 | 2 | 30 | 0 | 30 |
| Cropping Systems | 01 | 12 | 0 | 12 | 3 | 0 | | 3 | 0 | 0 | 0 | 30 | 0 | 30 |
| Crop Diversification |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation/irrigation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production | 02 | 114 | 6 | 120 | 0 | 0 | | 0 | 0 | 0 | 0 | 114 | 6 | 120 |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management | 04 | 51 | 18 | 69 | 16 | 3 | | 19 | 0 | 0 | 0 | 83 | 37 | 120 |
| Soil & water conservation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total | **12** | **244** | **25** | **269** | **61** | **5** | | **66** | **2** | **0** | **2** | **373** | **47** | **420** |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Off0season vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (a) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (b) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (c) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (d) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (e) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (f) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total(a-g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 3 | 71 | 13 | 84 | 5 | 0 | | 5 | 1 | 0 | 1 | 77 | 13 | 90 |
| Production and use of organic inputs | 1 | 18 | 11 | 29 | 1 | 0 | | 1 | 0 | 0 | 0 | 19 | 11 | 30 |
| Management of Problematic soils | 1 | 5 | 3 | 8 | 9 | 13 | | 22 | 0 | 0 | 0 | 14 | 16 | 30 |
| Micro nutrient deficiency in crops | 1 | 25 | 1 | 26 | 4 | 0 | | 4 | 0 | 0 | 0 | 29 | 1 | 30 |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Balance Use of fertilizer |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil & water testing | 1 | 22 | 6 | 28 | 2 | 0 | | 2 | 0 | 0 | 0 | 24 | 6 | 30 |
| others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **7** | **141** | **34** | **175** | **21** | **13** | | **34** | **1** | **0** | **1** | **163** | **47** | **210** |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Feed & fodder technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening | 2 | - | 57 | 57 | - | - | | 0 | - | 3 | 3 | 0 | 60 | 60 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet | 1 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 30 | 30 | 0 | 30 | 30 |
| Minimization of nutrient loss in processing | 1 | 0 | 30 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 30 | 30 |
| Processing & cooking |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition | 2 | 0 | 59 | 59 | 0 | 1 | | 1 | 0 | 0 | 0 | 0 | 60 | 60 |
| Women empowerment | 4 | 0 | 53 | 53 | 0 | 62 | | 62 | 0 | 5 | 5 | 0 | 120 | 120 |
| Location specific drudgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | 10 | 0 | 199 | 199 | 0 | 63 | | 63 | 0 | 38 | 38 | 0 | 300 | 300 |
| **VI. Agril. Engineering** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Farm machinery & its maintenance |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Installation and maintenance of micro irrigation systems |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Use of Plastics in farming practices |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of small tools and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Small scale processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Pest Management | 9 | 117 | 87 | 204 | 27 | 22 | | 49 | 9 | 8 | 17 | 153 | 117 | 270 |
| Integrated Disease Management | 2 | 39 | 13 | 52 | 4 | 2 | | 6 | 2 | 0 | 2 | 45 | 15 | 60 |
| Bio0control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **11** | **156** | **100** | **256** | **31** | **24** | | **55** | **11** | **8** | **19** | **198** | **132** | **330** |
| **VIII. Fisheries** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **IX. Production of Input at site** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed Production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio0agents production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio0pesticides production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Bio0fertilizer production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi0compost production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Organic manures production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Bee0colonies and wax sheets |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group dynamics | 1 | 26 | 4 | 30 | 0 | | 0 | 0 | 0 | 0 | 0 | 26 | 4 | 30 |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mobilization of social capital |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths | 1 | 30 | 0 | 30 | 0 | | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| WTO and IPR issues |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **2** | **56** | **4** | **60** | **0** | | **0** | **0** | **0** | **0** | **0** | **56** | **4** | **60** |
| **XI. Agro forestry** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production technologies | 5 | 95 | 16 | 111 | 9 | | 0 | 9 | 8 | 22 | 30 | 104 | 16 | 150 |
| Nursery management |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Farming Systems | 3 | 64 | 16 | 80 | 6 | | 4 | 10 | 0 | 0 | 0 | 70 | 20 | 90 |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **8** | **159** | **32** | **191** | **15** | | **4** | **19** | **8** | **22** | **30** | **174** | **36** | **240** |
| **XII. Others (Pl. Specify)** |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **GRAND TOTAL** | **50** | **756** | **394** | **1150** | **128** | | **109** | **237** | **22** | **68** | **90** | **964** | **566** | **1560** |

**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** |
| Nursery Management of Horticulture crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Training and pruning of orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation of vegetable crops |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Commercial fruit production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs | 01 | 17 | 01 | 18 | 02 | | 0 | 02 | 0 | 0 | 0 | 19 | 01 | 20 |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom Production | 1 | 16 | 2 | 18 | 2 | | 0 | 2 | 0 | 0 | 0 | 18 | 2 | 20 |
| Beekeeping | 1 | 8 | 8 | 16 | 2 | | 0 | 2 | 2 | 0 | 2 | 12 | 8 | 20 |
| Sericulture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Small scale processing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Tailoring and Stitching |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Dairying |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Sheep and goat rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Quail farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Rabbit farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Poultry production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Ornamental fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Freshwater prawn culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Cold water fisheries |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **3** | **41** | **11** | **52** | **6** | | **0** | **6** | **2** | **0** | **2** | **49** | **11** | **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 | 02 | 11 | 0 | 11 | 1 | | 0 | 1 | 0 | 0 | 0 | 33 | 7 | 40 |
| Integrated Pest Management | 02 | 24 | 10 | 34 | 02 | | 01 | 03 | 01 | 02 | 03 | 27 | 13 | 40 |
| Integrated Nutrient management | 1 | 14 | 4 | 18 | 1 | | 0 | 1 | 1 | 0 | 1 | 16 | 4 | 20 |
| Rejuvenation of old orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Women and Child care | 1 | 0 | 14 | 14 | 0 | | 3 | 3 | 0 | 3 | 3 | 0 | 20 | 20 |
| Low cost and nutrient efficient diet designing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Capacity building for ICT application |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Management in farm animals |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Other | 1 | 12 | 4 | 16 | 2 | | 1 | 3 | 1 | 0 | 1 | 15 | 5 | 20 |
| **Total** | **7** | **61** | **32** | **93** | **6** | | **5** | **11** | **3** | **5** | **8** | **91** | **49** | **140** |

## 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 | Farmers and Farm women | Different rice crop establishment methods for sustainable agriculture | 1 | Off Campus | 30 | 0 | 30 | 30 | 0 | 30 |
| Agronomy | Farmers and Farm women | Cultivation practices under flash flood situation | 1 | Off Campus | 26 | 4 | 30 | 7 | 2 | 9 |
| Agronomy | Farmers and Farm women | Integrated weed management in transplanted rice | 1 | Off Campus | 26 | 4 | 30 | 7 | 2 | 9 |
| Agronomy | Farmers and Farm women | Use of mulch material for weed control | 1 | Off Campus | 30 | 0 | 30 | 2 | 0 | 2 |
| Agronomy | Farmers and Farm women | Fodder crop cultivation | 1 | Off Campus | 22 | 8 | 30 | 5 | 1 | 6 |
| Agronomy | Farmers and Farm women | Contingent crop planning | 1 | Off Campus | 19 | 11 | 30 | 4 | 0 | 4 |
| Agronomy | In-service personnel | Recent advances in weed management | 2 | On Campus | 13 | 7 | 20 | 1 | 0 | 1 |
| Agronomy | Farmers and Farm women | Cropping intensification in rice fallow | 1 | Off Campus | 30 | 0 | 30 | 19 | 0 | 19 |
| Agronomy | Farmers and Farm women | Integrated weed managemnt in pulses | 1 | Off Campus | 30 | 0 | 30 | 3 | 0 | 3 |
| Agronomy | Farmers and Farm women | Organic nutrient management in aromatic rice | 1 | On Campus | 16 | 14 | 30 | 0 | 0 | 0 |
| Agronomy | In-service personnel | Packages and practices of oilseeds and pulse crops | 2 | On Campus | 20 | 0 | 20 | 0 | 0 | 0 |
| Agronomy | Farmers and Farm women | Integrated weed management in groundnut | 1 | Off Campus | 30 | 0 | 30 | 2 | 0 | 2 |
| Home science | Farmers/farmwomen | Cultivation of ps mushroom by use of scrambled straw | 1day | off | 0 | 30 | 30 | 0 | 23 | 23 |
| Home science | Farmers/farmwomen | Quality value added products of rice | 1 day |  | 0 | 30 | 30 | 0 | 30 | 30 |
| Home science |  | Mushroom cultivation | 4 days | on | 18 | 2 | 20 | 2 | 0 | 2 |
| Home science | Farmers/farmwomen | Preparation of protein rich products | 1day | off | 0 | 30 | 30 | 0 | 30 | 30 |
| Home science | Farmers/farmwomen | Pre cooking methods for nutrients retention duoring cooking | 1day | off | 0 | 30 | 30 | 0 | 0 | 30 |
| Home science | Farmers/farmwomen | Oyster mushroom cultivation | 2 days | off | 0 | 60 | 60 | 0 | 20 | 20 |
| Home science | Farmers/farmwomen | Nutritional gardening for nutritional security | 1 day | off | 0 | 26 | 30 | 0 | 4 |  |
| Home science | Farmers/farmwomen | Lay out of nutritional garden for farm family | 1day | off | 0 | 30 | 30 | 0 | 0 | 0 |
| Home science | Farmers/farmwomen | Preparation of value added products from milk | 1day | off | 0 | 30 | 30 | 0 | 1 | 0 |
| Home science | In-service personnel | Strategies to improve nutritional status of of pre- schoolers | 2 days | on | 0 | 26 | 0 | 0 | 4 | 4 |
| Home science | Farmers/farmwomen | Rearing of kadaknath poultry bird for income generation | 1 day | on | 0 | 30 | 30 | 0 | 21 | 21 |
| Forestry | F/W | Agro-forestry models | 1 | Off campus | 30 | 0 | 30 | 0 | 0 | 0 |
| Forestry | F/W | Sustainable management of waste land | 1 | Off campus | 23 | 3 | 26 | 1 | 3 | 4 |
| Forestry | F/W | Package and practices of Teak | 1 | Off campus | 16 | 13 | 29 | 0 | 1 | 1 |
| Forestry | F/W | Tree based integrated farming system | 1 | Off campus | 23 | 5 | 28 | 2 | 0 | 2 |
| Forestry | F/W | Fuel wood security for small farmer | 1 | Off campus | 24 | 0 | 24 | 6 | 0 | 6 |
| Forestry | F/W | Cultivation of black pepper and long pepper in arecanut plantation | 1 | Off campus | 25 | 0 | 25 | 5 | 0 | 5 |
| Forestry | F/W | Fodder trees and grasses cultivation in waste land | 1 | Off campus | 18 | 11 | 29 | 1 | 0 | 1 |
| Forestry | F/W | Package and practice of Flemingia in waste land | 1 | Off campus | 0 | 0 | 0 | 8 | 22 | 30 |
| Forestry | Rural youth | Scientific bee keeping | 3 | On campus | 12 | 8 | 20 | 4 | 0 | 4 |
| Forestry | IS | Basic nursery preparation and management in coastal and riverine area | 2 | On campus | 15 | 5 | 20 | 3 | 1 | 4 |
| Soil Sc. | F/W | Micro & secondary nutrient application in rice | 1 | Off campus | 29 | 1 | 30 | 4 | 0 | 4 |
| Soil Sc. | F/W | Management of acid soil | 1 | Off campus | 14 | 16 | 30 | 9 | 13 | 22 |
| Soil Sc. | F/W | Preparation of quality compost | 1 | Off campus | 19 | 11 | 30 | 1 | 0 | 1 |
| Soil Sc. | F/W | INM in Tomato | 1 | Off campus | 30 | 0 | 30 | 1 | 0 | 1 |
| Soil Sc. | F/W | INM in pulses | 1 | Off campus | 17 | 13 | 30 | 0 | 0 | 0 |
| Soil Sc. | F/W | Importance of soil testing & fertilizer recommendation | 1 | Off campus | 24 | 6 | 30 | 2 | 0 | 2 |
| Soil Sc. | F/W | INM in Cauliflower | 1 | Off campus | 30 | 0 | 30 | 5 | 0 | 5 |
| Soil Sc. | INS | Soil health management | 1 | On campus | 16 | 4 | 20 | 2 | 0 | 2 |
| Agril. Extension | F/W | Alternate livelihood option for resource poor family | 1 | Off campus | 30 | 0 | 30 | 4 | 0 | 4 |
| Agril. Extension | F/W | Formation of farmers club | 1 | Off campus | 26 | 4 | 30 | 7 | 1 | 8 |
| Seed Sc. | F/W | Scientific cultivation of Toria | 1 | Off campus | 60 | 0 | 60 | 9 | 5 | 14 |
| Seed Sc. | F/W | Scientific cultivation & seed production of Toria | 1 | Off campus | 54 | 6 | 60 | 0 | 0 | 0 |
| Plant protection | F/W | IPM modules for BFSB management | 01 | Off campus | 13 | 17 | 30 | 3 | 3 | 06 |
| Plant protection | F/W | IDM in tomato | 01 | Off campus | 16 | 14 | 30 | 0 | 2 | 2 |
| Plant protection | F/W | IDM in betel vine | 01 | Off campus | 29 | 1 | 30 | 6 | 0 | 6 |
| Plant protection | F/W | Integrated management of YVMV in okra | 01 | Off campus | 11 | 19 | 30 | 7 | 16 | 23 |
| Plant protection | F/W | IPM in cauliflower | 01 | Off campus | 22 | 8 | 30 | 4 | 1 | 5 |
| Plant protection | F/W | IPM for BPH/WBPH in paddy | 01 | Off campus | 11 | 19 | 30 | 2 | 1 | 3 |
| Plant protection | IS | Recenet advances in IPM in cereals | 02 | On campus | 10 | 10 | 20 | 3 | 1 | 4 |
| Plant protection | RY | Preparation of biopesticides from botanicals | 03 | On campus | 19 | 1 | 20 | 2 | 0 | 2 |
| Plant protection | F/W | Management of panicle mite in paddy | 01 | Off campus | 13 | 17 | 30 | 2 | 1 | 3 |
| Plant protection | F/W | Pest management in organic aromatic rice cultivation | 01 | Off campus | 30 | 0 | 30 | 2 | 0 | 2 |
| Plant protection | IS | Use of new generation pesticides | 02 | On campus | 17 | 3 | 20 | 2 | 1 | 3 |
| Plant protection | F/W | IPM in green gram and black gram | 01 | On campus | 22 | 8 | 30 | 1 | 0 | 1 |
| Plant protection | F/W | Integrated management of stem borer in summer paddy | 01 | Off campus | 30 | 0 | 30 | 4 | 0 | 4 |
| Plant protection | F/W | IPM in ground nut | 01 | Off campus | 16 | 14 | 30 | 2 | 1 | 3 |

## H) Vocational training programmes for Rural Youth

## a) 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 |  |
| Mushroom | Income generation | Mushroom cultivation | 4 | 18 | 2 | 20 | mushroom | 8 | 8 | 7 |
| Apiculture | Income generation | Scientific beekeeping | 2 | 12 | 8 | 20 | Apiary | 30 | 10 | 6 |

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

**b) Details of participation**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| Crop production and management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Commercial floriculture |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Commercial fruit production |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Commercial vegetable production |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Integrated crop management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Organic farming |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Dairy farming |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Sheep and goat rearing |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Piggery |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Poultry farming |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Income generation activities** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Vermicomposting |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Production of bioagents, biopesticides, |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| biofertilizers etc. |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Repair and maintenance of farm machinery &imlements |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Mushroom cultivation | 1 | 16 | 2 | 18 | 2 | 0 | 2 | 0 | 0 | 0 | 18 | | 2 | 20 |
| Nursery, grafting etc. |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Tailoring, stitching, embroidery, dying etc. |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Agril. Para-workers, para0vet training |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Capacity building and group dynamics |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other | 1 | 12 | 4 | 16 | 2 | 1 | 3 | 1 | 0 | 1 | 15 | | 5 | 20 |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Grand Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |

**I) Sponsored Training Programmes**

a) Details of Sponsored Training Programme

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.No | Title | Thematic area | Month | Duration (days) | Client | No. of courses | No. of participants | Sponsoring Agency |
| PF/RY/EF |
| **01** | Horticulture and agro forestry for livelihood security | Increasing production and productivity of crops | 26.06.19 to 27.06.19 | 02 | PF | 01 | 30 | ATMA |
| **02** | Organic farming | Crop production and management | 19.09.19 to 20.09.19 | 02 | PF | 01 | 30 | ATMA |
| **03** | Profitable vegetable cultivation | Commercial production of vegetables | 29.10.19 to 30.10.19 | 02 | PF | 01 | 30 | ATMA |
| **04** | integrated pest management | Increasing production and productivity of crops | 31.10.19 to 01.11.19 | 02 | PF | 01 | 30 | ATMA |
| **05** | production practices for pulse and oilseeds | Crop production and management | 26.11.19 to 27.11.19 | 02 | PF | 01 | 30 | ATMA |
| **06** | Mushroom cultivation | Income generation | 18.12.19 to 19.12.19 | 02 | PF and RY | 01 | 30 | ATMA |

b) Details of participation

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** |
| **Crop production and management** | 02 | 43 | 12 | 55 | 5 | 0 | 5 | 0 | 0 | 0 | 48 | | 12 | 60 |
| Increasing production and productivity of crops | 02 | 52 | 3 | 55 | 4 | 0 | 4 | 1 | 0 | 1 | 57 | | 3 | 60 |
| Commercial production of vegetables | 01 | 27 | 0 | 27 | 3 | 0 | 3 | 0 | 0 | 0 | 30 | | 0 | 30 |
| Production and value addition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Fruit Plants |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Ornamental plants |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Spices crops |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Soil health and fertility management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Production of Inputs at site |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Methods of protective cultivation |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Farm machinery** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Farm machinery, tools and implements |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Livestock and fisheries** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Livestock production and management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Animal Nutrition Management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Animal Disease Management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Fisheries Nutrition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Fisheries Management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Home Science** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Household nutritional security |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Economic empowerment of women | 01 | 16 | 11 | 27 | 3 | 0 | 3 | 0 | 0 | 0 | 19 | | 11 | 30 |
| Drudgery reduction of women |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** | **6** | **138** | **26** | **164** | **15** | **0** | **15** | **1** | **0** | **1** | **156** | | **26** | **180** |
| **Grant Total** | **6** | **138** | **26** | **164** | **15** | **0** | **15** | **1** | **0** | **1** | **156** | | **26** | **180** |

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 | 01 | 54 | 6 | 60 | 15 | 05 | 01 | 06 | 59 | 07 | 66 |
| Kisan Mela | - | - | - | - | - | - | - | - | - | - | - |
| Kisan Ghosthi | - | - | - | - | - | - | - | - | - | - | - |
| Exhibition | - | - | - | - | - | - | - | - | - | - | - |
| Film Show | 05 | 70 | 20 | 90 | 10 | 06 | 09 | 15 | 76 | 29 | 105 |
| Method Demonstrations | 36 | 982 | 128 | 1110 | 17 |  |  |  |  |  |  |
| Farmers Seminar | - | - | - | - | - | - | - | - | - | - | - |
| Workshop(entrepreneur meet) | 01 | 42 | 0 | 42 | 11 | 10 | 6 | 16 | 52 | 06 | 58 |
| Group meetings | 10 |  |  |  |  |  |  |  |  |  |  |
| Lectures delivered as resource persons | 49 | 1460 | 550 | 2010 | 18 | 90 | 58 | 148 | 1550 | 608 | 4158 |
| Advisory Services | 104 | - | - | 87386 | 19 | - | - | 1200 | - | - | 88586 |
| Scientific visit to farmers field | 72 | - | - | 222 | 35 | - | - | 15 | - | - | 237 |
| Farmers visit to KVK | - | - | - | 2066 | 25 | - | - | - | - | - | 2066 |
| Diagnostic visits | 185 | - | - | 185 | - | - | - | - | - | - | 185 |
| Exposure visits | 05 | 43 | 5 | 48 | 10 | 02 | 02 | 04 | 47 | 07 | 54 |
| Ex-trainees Sammelan | - | - | - | - | - | - | - | - | - | - | - |
| Soil health Camp | - | - | - | - | - | - | - | - | - | - | - |
| Animal Health Camp | 01 | 40 | 10 | 50 | 20 | 21 | 5 | 26 | 61 | 15 | 76 |
| Agri mobile clinic | - | - | - | - | - | - | - | - | - | - | - |
| Soil test campaigns | 06 | 135 | 15 | 150 | 25 | 14 | 04 | 18 | 149 | 19 | 168 |
| Farm Science Club Conveners meet | - | - | - | - | - | - | - | - | - | - | - |
| Self Help Group Conveners meetings | - | - | - | - | - | - | - | - | - | - | - |
| Mahila Mandals Conveners meetings | - | - | - | - | - | - | - | - | - | - | - |
| Celebration of important days (150th Birth anniversary of Gandhiji) | 01 | 18 | 32 | 50 | 4 | 8 | 4 | 8 | 22 | 36 | 58 |
| Celebration of important days (World food day) | 01 | 46 | 29 | 75 | 24 | 5 | 2 | 7 | 51 | 31 | 82 |
| Celebration of important days (Women in agriculture day) | 01 | 0 | 80 | 80 | 36 | 2 | 3 | 5 | 2 | 83 | 85 |
| Celebration of important days (Constitution Day) | 01 | 32 | 3 | 35 | 7 | 2 | 5 | 7 | 34 | 8 | 42 |
| Celebration of important days (World soil Day) | 01 | 29 | 31 | 60 | 15 | 2 | 4 | 6 | 31 | 37 | 66 |
| Celebration of important days (International women Day) | 01 | 0 | 40 | 40 | 19 | 0 | 43 | 43 | 0 | 83 | 83 |
| Sankalp Se Siddhi | - | - | - | - | - | - | - | - | - | - | - |
| Swachhta Hi Sewa | - | - | - | - | - | - | - | - | - | - | - |
| Mahila Kisan Divas | - | - | - | - | - | - | - | - | - | - | - |
| Any Other (Mass plantation) | 01 | 139 | 61 | 200 | 45 | 4 | 5 | 9 | 143 | 66 | 209 |
| Any Other (FAA) | 01 | 230 | 0 | 230 | 17 | 15 | 5 | 20 | 245 | 5 | 250 |
| Any Other (Potato conclave) | 01 | 35 | 15 | 50 | 2 | 2 | 4 | 6 | 37 | 19 | 56 |
| Any Other (Live telecast of NADCP) | 01 | 55 | 05 | 60 | 10 | 21 | 05 | 26 | 76 | 10 | 86 |
| Any Other (Vigilance week) | 01 | 30 | 0 | 30 | 9 | 2 | 5 | 7 | 32 | 5 | 37 |
| Any Other (Swachhta) | 04 | 35 | 75 | 110 | 23 | 12 | 20 | 32 | 47 | 95 | 142 |
| Any Other  (Awareness on citizen duty | 02 | 18 | 82 | 100 | 36 | 5 | 5 | 10 | 22 | 83 | 105 |
| Any Other (audio conference ) | 03 | 133 | 22 | 155 | 19 | 1 | 0 | 1 | 143 | 13 | 156 |
| Any Other (Video conference) | 01 | 52 | 5 | 57 | 13 | 1 | 0 | 1 | 53 | 5 | 58 |
| Any Other (Awareness on COVID-19) | 01 | 28 | 02 | 30 | 9 | 2 | 4 | 6 | 30 | 6 | 36 |
| Total | 497 | 3706 | 1216 | 94781 | 493 | 232 | 199 | 1642 | 2962 | 1276 | 97310 |

**B. Other Extension activities**

|  |  |
| --- | --- |
| **Nature of Extension Activity** | **No. of activities** |
|
| Newspaper coverage | 10 |
| Radio talks | 07 |
| TV talks | 15 |
| Popular articles | 02 |
| Extension Literature | 14 |
| Other, if any |  |

**3.5 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 | |
|  |  |  |  |  | M | F | M | F | M | F | M | F |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |

# *KVK farm*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Variety | Quantity of seed  (q) | Value  (Rs) | Number of farmers  to whom seed provided | | | | | | | |
|  |  |  |  | SC | | ST | | Other | | Total | |
|  |  |  |  | M | F | M | F | M | F | M | F |
| Finger millet | Arjuna | 2.16 |  |  |  |  |  |  |  |  |  |
| Sesamum | Smarak | 1.0 |  |  |  |  |  |  |  |  |  |
| **Grand Total** |  | 3.16 |  |  |  |  |  |  |  |  |  |

# Production of planting materials by the KVKs

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Variety | No. of planting materials | Value  (Rs) | Number of farmers  to whom planting material provided | | | | | | | |
|  |  |  |  | SC | | ST | | Other | | Total | |
|  |  |  |  | M | F | M | F | M | F | M | F |
| **Vegetable seedlings** |  |  |  |  |  |  |  |  |  |  |  |
| Cauliflower | Megha | 2200 | 2200 | 16 | 8 | 15 | 7 | 23 | 7 | 54 | 22 |
| Cabbage | Rare ball | 2040 | 2040 | 13 | 7 | 16 | 4 | 21 | 9 | 50 | 20 |
| Tomato | Utkal kumari | 3598 | 3598 | 23 | 8 | 19 | 8 | 23 | 15 | 96 | 31 |
| Brinjal | Utkal tarini | 8742 | 8742 | 8 | 6 | 14 | 8 | 12 | 4 | 34 | 18 |
| Chilli | Utkala ragini | 2275 | 2275 | 15 | 5 | 16 | 8 | 19 | 31 | 94 | 44 |
| Onion |  |  |  |  |  |  |  |  |  |  |  |
| Others (Drumstick) | PKM-1 | 427 | 427 | 17 | 8 | 8 | 9 | 10 | .8 | 35 | 25 |
| Broccoli | Shishir | 750 | 750 | 15 | 5 | 17 | 3 | 15 | 8 | 63 | 16 |
| **Fruits** |  |  |  |  |  |  |  |  |  |  |  |
| Mango |  |  |  |  |  |  |  |  |  |  |  |
| Guava |  |  |  |  |  |  |  |  |  |  |  |
| Lime |  |  |  |  |  |  |  |  |  |  |  |
| Papaya | Pusa nanha | 1559 | 1559 | 42 | 7 | 40 | 10 | 45 | 10 | 127 | 27 |
| Banana |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental plants |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and Aromatic |  |  |  |  |  |  |  |  |  |  |  |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |
| Spices |  |  |  |  |  |  |  |  |  |  |  |
| Turmeric | Rajendra Sonia, Roma | 59 kg | 2065 |  | 5 |  | 7 |  | 8 |  | 20 |
| Tuber (Yam) | Odisha elite | 80 kg | 2400 | 2 | 5 | 1 | 7 |  | 8 | 3 | 20 |
| Elephant yams | Gajendra | 93 kg | 3720 | 2 | 5 | 1 | 7 |  | 8 | 3 | 20 |
| Fodder crop saplings |  |  |  |  |  |  |  |  |  |  |  |
| Forest Species |  |  |  |  |  |  |  |  |  |  |  |
| Others, pl. specify |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  | **29776** | **153** | **69** | **147** | **78** | **168** | **108.8** | **559** | **263** |

**Production of Bio-Products**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of product** | **Quantity**  (Kg) | **Value (Rs.)** | **No. of Farmers benefitted** | | | | | | | |
|  |  |  | SC | | ST | | Other | | Total | |
|  |  |  | M | F | M | F | M | F | M | F |
| 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 | |
|  |  |  |  | M | F | M | F | M | F | M | F |
| Dairy animals |  |  |  |  |  |  |  |  |  |  |  |
| Cows |  |  |  |  |  |  |  |  |  |  |  |
| Buffaloes |  |  |  |  |  |  |  |  |  |  |  |
| Calves |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Small ruminants |  |  |  |  |  |  |  |  |  |  |  |
| Sheep |  |  |  |  |  |  |  |  |  |  |  |
| Goat |  |  |  |  |  |  |  |  |  |  |  |
| Other, please specify |  |  |  |  |  |  |  |  |  |  |  |
| Poultry |  |  |  |  |  |  |  |  |  |  |  |
| Broilers |  |  |  |  |  |  |  |  |  |  |  |
| Layers | Aseel | 266 | 18620 | 9 | 2 | 8 | 3 | 8 | 0 | 25 | 5 |
| Duals (broiler and layer) | Rainbow rooster | 881 | 61670 | 15 | 4 | 16 | 8 | 18 | 9 | 49 | 21 |
| Japanese Quail |  |  |  |  |  |  |  |  |  |  |  |
| Turkey |  |  |  |  |  |  |  |  |  |  |  |
| Emu |  |  |  |  |  |  |  |  |  |  |  |
| Ducks |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) | Kadaknath | 471 | 42390 | 12 | 8 | 10 | 7 | 14 | 9 | 36 | 24 |
| Piggery |  |  |  |  |  |  |  |  |  |  |  |
| Piglet |  |  |  |  |  |  |  |  |  |  |  |
| Hog |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Fisheries |  |  |  |  |  |  |  |  |  |  |  |
| Indian carp |  |  |  |  |  |  |  |  |  |  |  |
| Exotic carp |  |  |  |  |  |  |  |  |  |  |  |
| Mixed carp |  |  |  |  |  |  |  |  |  |  |  |
| Fish fingerlings |  |  |  |  |  |  |  |  |  |  |  |
| Spawn |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total |  | **1618** | **122680** | **36** | **14** | **34** | **18** | **40** | **18** | **110** | **50** |

**3.5. b. Seed Hub Programme-*“Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India”***

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 |  |  |  |  |  |  |
| Kharif 2019 |  |  |  |  |  |  |
| Rabi 2019-2020 |  |  |  |  |  |  |

**iii) Financial Progress**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fund received  (2016-17, 2017-18 and 2018-19) | Expenditure (Rs. in lakhs) | | Unspent balance  (Rs. in lakhs) | Remarks |
| Infrastructure | Revolving fund |
| 2016-17 |  |  |  |  |
| 2017-18 |  |  |  |  |
| 2018-19 |  |  |  |  |
| 2019-2020 |  |  |  |  |

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 | Incident Galls induced by Leptocybe invasa (Hymenoptera:Eulophidae) on Eucalyptus sps in Koraput Odisha  (multi-logic in science) | Sefali Rout | - | - |
| Seminar/conference/ symposia papers | - | - | - | - |
| Books | - | - | - | - |
| Bulletins | - | - | - |  |
| News letter | Shyamala | KVK, Balasore | 1000 | 500 |
| Popular Articles | 2 | KVK, Balasore | - | - |
| Book Chapter | - | - | - | - |
| Extension Pamphlets/ literature | 1. Fall army worm:chinhata o parichalana 2. Pana barajara jatna o gunatmaka pana utpadana 3. Dhana fasalare samanyita roga poka parichalan 4. Panipariba fasalare samanyita roga poka parichalan 5. Muga chasa 6. Jiakhata Utpadana 7. Baigyanika padhatire sorisa chasa. 8. Baigyanika padhatire sorisa fasalare bihan utpadana 9. Nutritional security & Nutritional garden 10. Dhana Fasalare bihana chasa pranali 11. Chinabadam chasa 12. Gunatmaka bihana utpadana | 1. Dr. G. Sahoo, Scientist (Plant protection) 2. Dr. G. Sahoo, Scientist (Plant protection) 3. Dr. G. Sahoo, Scientist (Plant protection) 4. Dr. G. Sahoo, Scientist (Plant protection) 5. Dr. G. Sahoo, Scientist (Plant protection) 6. Dr. G. Sahoo, Scientist (Plant protection) 7. Niroj Kumar Jena, PA (seed sc) 8. Niroj Kumar Jena, PA (seed sc) 9. Dr. Amita rani Patra, Scientist (Home sc.) 10. Prava manjari Giri, Scientist (Agronomy) 11. Prava manjari Giri, Scientist (Agronomy) 12. Prava manjari Giri, Scientist (Agronomy) |  |  |
| Technical reports | 1. SAC report 2. QRT Report 3. Annual Progress Report 4. CFLD Report in G.nut, Toria, green Gram | Niroj Kumar Jena, PA (seed sc) |  |  |
| Electronic Publication (CD/DVD etc) | - | - |  |  |
| TOTAL |  |  |  |  |

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of programme** | **Name of course** | **Name of KVK personnel and designation** | **Date and Duration** | **Organized by** |
|  | Workshop | Problem confirmation & development of matrix | Kamalakanta Behera (Scientist, Extension)  Pravamanjari Giri (Scientist , Agronomy) | 30.04.2019-01.05.2019 | DEE,OUAT |
|  | Workshop | Intervention planning and action plan development workshop | Dr.S.K. Mohapatra (SS&H)  Dr. Gayatree Sahoo (Scientist, Plant Protection)  Dr. Amita rani Patra (Scientist, Home Sc.)  Pravamanjari Giri (Scientist , Agronomy)  Manoj Kumar Jena (Scientist, Soil Sc.)  Kamalakanta Behera (Scientist, Extension)  Sefali Rout (Scientist, Forestry) | 12.05.19 to 15.05.19 | DEE,OUAT |
|  | Training | Awareness cum skill development for management of Fall army worm | Dr. Gayatree Sahoo  Scientist (Plant Protection) | 24.06.19 | Dept. of Agriculture & farmers welfare, Govt. of Odisha |
|  | Training | Training of Master trainers on safe use of pesticides and e-pest surveillance through mobile app | Dr. Gayatree Sahoo  Scientist (Plant Protection) | 07.08.19 to 08.08.19 | Dept. of Agriculture & farmers welfare, Govt. of Odisha |
|  | Training | TOT training programme under ASCI | Dr. Gayatree Sahoo Scientist (Plant Protection)  Pravamanjari Giri (Scientist , Agronomy) | 09.12.19 to 11.12.19 | ATARI, Kolkata |
|  | Training | Orientation training programme on ‘operational modalities for KVKs’ | Dr. Gayatree Sahoo (Plant Protection)  Pravamanjari Giri (Agronomy)  Sefali Rout (Forestry) | 27.12.19 to 29.12.19 | DEE,OUAT |
|  | Workshop | Workshop on mitigating the challenges in house hold and public health pest management | Dr. Gayatree Sahoo | 18.01.2020 | Dept. of Entomology, OUAT |
|  | Workshop | Agro-ecosystem analysis for participatory planning | Dr. Amita rani Patra | 17.02.2020-21.02.2020 | DEE,OUAT |

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** | Surendra Kumar Behera |
| **Address** | C/O- Banchhanidi Behera, At- Nilakanthapur, Block- Bahanaga, Dist- Balasore |
| **Contact details (Phone, mobile, email Id)** | 9078207735 |
| **Landholding (in ha.)** | 2.5 ha |
| **Name and description of the farm/ enterprise** | Kharif rice area: 2.5 ha, rabi rice area: 1.5 ha. Total cultivated area in rice cultivation is under transplanting and the farming situation is irrigated medium land. Weed is a major problem in deceasing grain yield. The predominant weed species in the crop fields are Echinochloa, Cyperus rotundus, marsilia quadrifoliata, Monochoria vaginalis, Ammania baccifera, ludwigia parviflora, alternanthera etc. |
| **Economic impact** | Application of pre-emergence Bensulfuron methyl+pretilachlor herbicide after 5 DAT @10kg/ha increased the rice grain yield by 17 % over his practice of manual weeding at 30 DAT and a net profit of 50.450 rupees due to higher weed control efficiency. |
| **Social impact** | In the present day scenario labour availability is a major problem to carry out manual weeding. Application of herbicide solves the problem of labour availability. |
| **Environmental impact** | Bensulfuron methyl+pretilachlor are broad spectrum herbicide which is environmental eco-friendly and have no residual toxicity at its recommended dose. |
| **Horizontal/ Vertical spread** | This technology is adopted at large scale in 4 blocks involving 1400 farmers. |

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 | Audio Conference | In linkage with Reliance Foundation | Farmers were invited through newspaper to participate in the multi-location audio conference with technical experts of KVK on specific topic |
| 02 | Video Conference | In linkage with Reliance Foundation | Farmers of specific village were invited to participate in the video conference with technical experts of KVK |

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** |
|  | Rice | Spraying of Rotten extracts of snail | To eradicate Gundhi bug |
|  | Rice | Spraying of cow dung slurry | To prevent grazing of cows into the crop field |
|  | Brinjal | Sprinkling of ash | To eradicate Epilachna beetle |
|  | Pulse | Mixing of mustard oil | For safe storage & to avoid attack of pulse beetle |
|  | Field crop | Spraying of egg, washing powder solution | To avoid grazing by bull |

b. Give details of organic farming practiced by the farmer

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Crop / Enterprise | Area (ha)/ No. covered | Production (q/ha) | No. of farmers involved | Market available (Y/N) |
| 01 | Aromatic Rice | 02 | 40.6 | 10 | Yes |

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** |
|  | PRA | Problem identification |
|  | Group discussion | Problem prioritization |
|  | Diagnostic field visit | To identify disease & pest problem |
|  | R-E Linkage | Problem identification & prioritization |
|  | Focused Group discussion | Problem identification & prioritization |
|  | Audio & video conference | Problem identification |

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 |
|  | BOD incubator | 1 |
|  | Hot air oven | 1 |
|  | Compound microscope | 1 |
|  | Centrifuge | 1 |

3.11.b. Details of samples analyzed so far :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number of soil samples analyzed | | | No. of Farmers | No. of Villages | Amount realized  (in Rs.) |
| Through mini soil testing kit/labs | Through soil testing laboratory | Total |  |  |  |
| 112 | 588 | 700 | 700 | 30 | - |

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 | Awareness on soil testing soil test based fertilizer application | 60 | - | - | 20 | 20 |

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/ FETprogramme - is KVK involved? (Y/N)

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

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

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

|  |  |  |
| --- | --- | --- |
| **Date** | **Name of the person** | **Purpose of visit** |
| 29.08.2019 | **Shri K. Sudarshan Chakravarthy**  Collector & DM, Balasore | SAC Meeting |
| 29.08.2019 | **Dr. S.K. Roy**  Principal scientist, ICAR-ATARI, Kolkata | SAC Meeting |
| 11.09.2019 | **Shri Pratap Ch. Sarangi**  Hon’ble MP & Minister of State, Animal Husbandry, Dairying and Fisheries and Micro, Small and Medium Enterprises, GoI | Launching of NADCP& NAIP during Pasu Aarogya Mela |

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) |
| Scientific bee keeping | 20 | 60% | 2000 | 8,000/- |
| Vermi-composting | 20 | 95% | 5000 | 35000 |
| Quality seed production | 20 | 95% | 4000 | 38000 |
| Mushroom cultivation | 30 | 98% | 39,000 | 70,000 |

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

|  |  |
| --- | --- |
| Horizontal spread of technologies | |
| **Technology** | **Horizontal spread** |
| Application of sulphur in transplanted rice | 1000 ha |
| Pre-emergence application of Bensulfuron methyl+ Pretilachlor in transplanted rice | 1400 ha |
| Management of YVMV in okra | 600 ha |
| Intercropping of turmeric in Teak | 98 ha |

Give information in the same format as in case studies

4.3. 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 | Pre-emergence application of Bensulfuron methyl+ Pretilachlor in transplanted rice | This technology is adopted in 1400ha area | 17.3% increase over traditional practice |
| 02 | Application of sulphur in transplanted rice | This technology is adopted 1000ha area of Baliapal block | 11.13% yield increase than farmers practice |
| 03 | Management of YVMV in okra | This technology is adopted 600ha area of | 38.83% yield increase than farmers practice |

4.4. Details of innovations recorded by the KVK

|  |  |
| --- | --- |
| **Thematic area** | Farm Machinery |
| **Name of the Innovation** | Modified Sprayer for betel vine crop |
| **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 are not suitable for spraying in betel vine unit. In 2017 he comes in contact with scientists of KVK, Balasore for technical intervention. |
| **Technology details** | The sprayer consists of a motor, battery, charger, a container of 10-15 liter capacity and a discharge assembly. The width of the normal sprayer is less than the normal sprayer and it fit to the row spacing of betel vine crop, which helps in easy spraying. |
| **Practical utility of innovation** | The sprayer that available in market of the same liter capacity is around 2800/-, but its cost is only 2200/-. So a farmer can save 600/- in buying that sprayer with ease of spraying operation in betel vine crop. Though he has produced 26 numbers of sprayers and sold it to other farmers, but with a very marginal profit which include only the transportation expenditures. |

**4.5. Details of entrepreneurship development**

|  |  |
| --- | --- |
| Entrepreneurship development | |
| Name of the enterprise | Mushroom Production |
| Name & complete address of the entrepreneur | Arati Sahu  W/O- Rabinarayan Sahu  At- Sankhudi, PO-Mathani, Block-Basta, Dist- Balasore  Contact No. 9238519318 |
| Role of KVK with quantitative data support: | * Training on Mushroom and mushroom spawn production from OUAT, BBSR * 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 * Linkage and facilitated for spawn and mushroom production unit * Demonstrated the production technology of blue oyster mushroom |
| Timeline of the entrepreneurship development | * 2010: Started cultivation paddy straw mushroom in open space in the shade of trees * 2011: Came in contact with KVK * 2012: Training on Mushroom and mushroom Spawn production from OUAT, BBSR * 2017: linkage with bank and DDH Balasore facilitated by KVK and applied for subsidy and loan of 20 lakhs * 2018: Sanction of 20 lakhs with subsidy 40 by DDH Balasore for Mushroom and mushroom Spawn production unit * 2019: started mushroom production in new production unit with a capacity of 400 beds/day |
| Technical Components of the Enterprise | Mushroom production: 50-60 bed/day (50 kg mushroom/day)  Mushroom Spawn: 100 bottles/day |
| Status of entrepreneur before and after the enterprise | She was earning about Rs 2000/- per month & maintaining her day to day life with difficulties. Now she is earning 20000/- per month, has purchased a two wheeler & android mobile phone. She is acting as a master trainer. |
| 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  Four laborers are engaged in her spawn productin unit  Quality of mushroom is good & demand is high  Creation of market point at Mathani for selling of Mushroom supply to Balasore and Baripada  The enterprise is economically viable and eco-friendly |
| Horizontal spread of enterprise | * Technical support to 60 SHG members of Basta block for Mushroom cultivation. * Supply of Mushroom Spawn bottle to nearby mushroom growers |

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. 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 |
| RSETI | Financial Literacy programme |
| NABARD | Awareness on PMFBY, Credit linkage |
| Reliance foundation | Audio conference, Video Conference, Live TV programme |
| IFFCO | Fertilizer awareness programme |
| Veterinary dept. | Pashu arogya mela |
| CSISA | Landscape Diagnostic Survey (LDS) |

5.2. List of special programmes undertaken during 2019-20by 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.)** |
| Pasu Arogya Mela | Launching of NADPC | 11.09.2019 | ATARI, Kolkata | 14700 |
| Mass Plantation prog | Plantation of tree | 17.09.2019 | ATARI, Kolkata | 10000 |
| Awareness on fertilizer  application | Awareness on fertilizer application | 22.10.2019 | ATARI, Kolkata | 48800 |

(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.) |
|  |  |  |  |  |

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** |
| 1. | Poultry demo unit | 2011-12 | 50 | Aseel, rainbow rooster and kadaknath | 1618 nos | 1618 nos | 93479 | 122680 | Poultry demo unit |
| 2. | Mushroom spawn unit | 2010-11 |  | Paady straw and oyester | 840 nos | 840 nos | 7370 | 12600 | Mushroom demo unit |
| 3. | Banana unit | 2019 |  | H-531, Budubali, NRCB-10, BCB-2, Champa, BCB-3, Manjari nendran, Popoulu, Nendran, BCB-1 | 11 bunches | 11 | 1175 | 2750 | Banana unit |
| 4. | Tuber unit | 2019 |  | Elephant foot yam (gajendra)and yam (Odisha elite) | 173kg | 173 kg | 2813 | 6120 | Tuber unit |
|  | Total |  |  |  |  |  |  |  |  |

6.2. Performance of Instructional Farm (Crops)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name  Of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|  |  | Variety | Type of Produce | Qty.(q) | Cost of inputs | Gross income |
| Cucumber | 20.05.2019 | 20.07.2019 | 0.008 | Kumud | Vegetable | 0.76 | 500 | 760 |  |
| Papaya | 26.05.2019 | 25.02.2020 | 0.01 | Pusa nanha | Vegetable | 0.78 | 480 | 1170 |  |
| Cowpea | 31.04.2019 | 01.07.2019 | 0.004 | Sanath | Vegetable | 0.10 | 150 | 200 |  |
| Ridge gourd | 22.05.2019 | 25.07.2019 | 0.004 | Narayana | Vegetable | 0.20 | 150 | 200 |  |
| Bitter gourd | 23.05.2019 | 26.07.2019 | 0.004 | nano | Vegetable | 0.15 | 200 | 300 |  |
| Pumpkin | 29.05.2019 | 27.07.2019 | 0.005 | Sindhura | Vegetable | 0.20 | 180 | 200 |  |
| Bottle gourd | 29.04.2019 | 28.07.2019 | 0.004- | H-9004 | Vegetable | 0.43 | 400 | 430 |  |
| Khada | 20.04.2019 | 28.05.2019 | 0.0004 | - | Vegetable | 0.10 | 75 | 100 |  |
| Leutia | 20.04.2019 | 28.05.2019 | 0.0004 | - | Vegetable | 0.10 | 100 | 150 |  |
| Summer cowpea | 25.04.2019 | 15.07.2019 | 0.01 | Gomthi | Vegetable | 0.20 | 250 | 600 |  |
| Sweet corn | 25.12.2019 | 13.01.2019 | 0.005 | Sweety | Vegetable | 158 nos | 950 | 1580 |  |
| Brinjal | 31.12.2019 | 16.03.2020 | 0.006 | Utkal tarini | Vegetable | 0.90 | 550 | 900 |  |
| Tomato | 16.12.2019 | 15.03.2020 | 0.008 | Utkal kumari | Vegetable | 0.89 | 500 | 890 |  |
| Cabbage | 12.12.2019 | 20.02.2020 | 0.006 | Rare ball | Vegetable | 0.123 | 1050 | 1230 |  |
| Cauli flower | 13.12.2019 | 23.02.2020 | 0.006 | Megha | Vegetable | 0.168 | 1150 | 1680 |  |
| Broccoli | 15.12.2019 | 20.02.2020 | 0.004 | Shishir | Vegetable | 0.45 | 365 | 675 |  |

* 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 | chicks | 881 | 47951 | 61670 |  |
| 2. | Poultry | Aseel | chicks | 266 | 15611 | 18620 |  |
| 3. | Poultry | Kadaknath | chicks | 471 | 29917 | 42390 |  |

* 1. Utilization of hostel facilities

Accommodation available (No. of beds-25)

|  |  |  |  |
| --- | --- | --- | --- |
| Months | No. of trainees stayed | Trainee days  (days stayed) | Reason for short fall  (if any) |
| June, 2019 | 30 | 02 |  |
| September, 2019 | 50 | 06 |  |
| October, 2019 | 100 | 08 |  |
| November, 2019 | 70 | 06 |  |
| December, 2019 | 70 | 06 |  |
| February, 2020 | 80 | 12 |  |
| March, 2020 | 40 | 17 |  |
| **Total :** | **440** | **57** |  |

(For whole of the year)

* 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 |
| January, 2019-December, 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 bank | Debhog | 17550200000062 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on - |
| Kharif | Rabi | Kharif | Rabi |
| Toria |  | 4,20,000 |  | 4,20,000 | -Nil- |
| Groundnut |  | 6,00,000 |  | 5,56,375 | 43,625 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April 2013 |
| Kharif | Rabi | Kharif | Rabi |
| Green Gram |  | 90,000 |  | 85,500 | 4,500 |

* 1. Utilization of KVK funds during the year 2019-20(Not audited)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Particulars** | Sanctioned | Released | Expenditure |
|
| **(A)** | **Recurring Items** |  |  |  |
| **1** | Pay & allowances | Data with the comptroller office | | |
| **2** | Travelling Allowances | 1,40,000 | 1,40,000 | 1,40,000 |
| **3** | HRD | 30,000 | 30,000 | 30,000 |
| **4** | Contingencies |  |  |  |
|  | a. Stationary, telephone postage and other expenditure on office running | 4,00,000 | 4,00,000 | 4,00,000 |
|  | b. POLs, repairs of vehicle, tractor & equipments |
|  | c. Vocational Training | 3,00,000 | 3,00,000 | 3,00,000 |
|  | i) Meals/ refreshments for trainees |
|  | ii)Training of extension functionaries |
|  | iii) Training of Rural Youth |
|  | iv) Training Material |
|  | d.FLD except oilseed and pulses | 1,50,000 | 1,50,000 | 1,10,000 |
|  | e.On-farm Trials | 1,50,000 | 1,50,000 | 90,000 |
|  | f.Library Maintenance and adding of books and Journals | - | - | - |
|  | g. Maintenance of building | - | - | - |
|  | h. Revolving Fund | - | - | - |
|  | i) SCSP contingency | 3,00,000 | 3,00,000 | 3,00,000 |
|  | j. Any other expenditure coming under recurring expenditure head (audit charges) | - | - |  |
|  | **Total (A)** | **14,70,000** | **14,70,000** | **13,70,000** |
| **(B)** | **Non-Recurring Items** | **-** | **-** | - |
| **a** | Library | 10,000 | 10,000 | 10,000 |
| **b** | Digging of bore-well | **-** | **-** | - |
| **c** | Threshing Floor | **-** | **-** | - |
| **d** | Livestock | **-** | **-** | - |
| **e** | construction of building | **-** | **-** | - |
| **f** | Any other expenditure coming under nonrecurring head | **-** | **-** | - |
|  | **Total (B)** | **10,000** | **10,000** | **10,000** |
|  | **Grand Total (A+B)** | **14,80,000** | **14,80,000** | **13,80,000** |
| (C) | . REVOLVING FUND | 0 | 0 | 427065 |
|  | **Grand Total (A+B+C)** | **14,80,000** | **14,80,000** | **1807065** |

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/- |
| 2019-20 | 2,93,646 | 3,26,230 | 1,77,065  2,50,000\* | 1,92,811 (54,701-cash in hand & 1,38,110- credit bill yet to receive) |

\*Deposited to DEE, OUAT, BBSR Vide Ch. No.- 000033 Dt. 17/01/2020

* 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: 59

(iii) Details of marketing channels created for the SHGs:- Facilitated linkage with OLM & ORMAS

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name of activity** | **Number of activity** | **Season** | **With line department** | **With ATMA** | **With both** |
| Management of FAW | 08 nos. | Kharif- 2019 | RKVY |  |  |
| Safe use of pesticides and use of mobile app for e-pest surveillance | 02 nos. | Kharif - 2019 | RKVY |  |  |
| Sponsored residential trainings | 06 nos. | Kharif- 2019 and Rabi- 2020 |  | ATMA |  |

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) |
| Blast | Paddy | Sept- Oct & Feb- Mach | 2650 ha | 60% | 2600 ha |
| Pulple blotch | Onion | Dec- Jan | 450 ha | 45% | 420 ha |
| Early blight | Potato | Dec- Feb | 550 ha | 45% | 510 ha |

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. *mKisan* Portal (National Farmers’ Portal/ SMSPortal)

|  |  |  |
| --- | --- | --- |
| **Type of message** | **No. of messages** | **No. of farmers covered** |
| Crop | 84 | 87386 |
| Livestock | 2 | 87386 |
| Fishery | 1 | 87386 |
| Weather | 4 | 87386 |
| Marketing | 1 | 87386 |
| Awareness | 2 | 87386 |
| Training information | - | 87386 |
| Other | 10 | 87386 |
| **Total** | **104** | **87386** |

9.4. *KVK* Portal and Mobile App

|  |  |  |
| --- | --- | --- |
| Sl. No. | Particulars | Description |
| 1. | No. of visitors visited the portal | *-* |
| 2. | No. of farmers registered in the portal | *-* |
| 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 Swachh Bharat Programme

|  |  |
| --- | --- |
| Date/ Duration of Observation | Activities undertaken |
|
| 17.09.19/4 hours | Swachhta Awareness at local level |
| 02.10.19 / 5 hours | Swachhta Pledge, Cleaning of KVK Campus |
| 20.12.19/2 hours | Cleaning and beautification of surrounding areas |
| 13.02.20/ 2 hours | Vermi-composting/Composting of biodegradable waste management & other activities on generate of wealth for waste |

b. Details of Swachhta activities with expenditure

|  |  |  |
| --- | --- | --- |
| **Activities** | **Number** | **Expenditure (in Rs.)** |
| 1. Digitization of office records/ e-office | - | - |
| 1. Basic maintenance | - | - |
| 1. Sanitation and SBM | - | - |
| 1. Cleaning and beautification of surrounding areas | 01 | - |
| 1. Vermi-composting/   Composting of biodegradable waste management & other activities on generate of wealth for waste | 01 | - |
| 1. Used water for agriculture/ horticulture application | - | - |
| 1. Swachhta Awareness at local level | 01 | - |
| 1. Swachhta Workshops | - | - |
| 1. Swachhta Pledge | 01 | - |
| 1. Display and Banner | - | - |
| 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) | - | - |
| 1. No of Staff members involved in the activities | - | - |
| 1. No of VIP/VVIPs involved in the activities | - | - |
| 16. Any other specific activity (in details) | - | - |
| **Total** | **04** | **-** |

9.6. Observation of National Science day

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

9.7. Programme with Seema Suraksha Bal/ BSF

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

9.8. Agriculture Knowledge in rural school

|  |  |  |  |
| --- | --- | --- | --- |
| Name and address of school | Date of visit to school | Areas covered | Teaching aids used |
| - | - | - | - |

Give good quality 1-2 photograph(s)

9.9. Details of ‘*Pre-Rabi Campaign’* Programme

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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) |
|  | - | - | - | - | - |

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) |
| - | - | - | - | - | - |

**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** |
| 01 | Brajagopal DasAdhikari | Baharda, Bhograi, 9437690901 | Dairy &Fishery |
| 02 | Asit Dey | Chaoumukh,Baliapali,9776846685 | Mushroom, Pisciculture |
| 03 | Lalit Krushna Sahu | Sadar Balasore, Balasore9937122729 | Pisciculture, carphatchery |
| 04 | Satyapal Sahu | Hasimpur, Baliapal , 9776602286 | Poultry, Fishery |
| 05 | Anjan Ku. Dandpat | Sahada, Basta,9937640173 | Fishery |
| 06 | Pradeep Nayak | Madhupura, Baliapal,9040877842 | Hybrid rice cultivation |
| 07 | Satyabrata Sahoo | Pratappur, Baliapal,8456052032 | Pisciculture & Prawn cultivation |
| 08 | Jaykrushna Samanta | Kainagiri, Basta,8118006520 | Goatery, Fishery |
| 09 | Badal Kumar Patra | Chaoumukh, Baliapali,7873335599 | Mushroom Spawn Pisciculture |
| 10 | Ramesh Chandra Jena | Chittol, Bahanaga, 9437593112 | Mushroom, Pisciculture, poultry |
| 11 | Gourgobinda Pradhan | Purosottampur , Basta, 8455831157 | Mushroom, Dairy |

9.13. Revenue generation

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

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 | 06 | 85020 | Farmers training and KMA |

10. Report on Cereal Systems Initiative for South Asia (CSISA)

1. Year:
2. Introduction / General Information:

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

11. Details of TSP: No TSP in KVK, Balasore

1. Achievements of physical output under TSP during 2019-2020

|  |  |
| --- | --- |
| **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 other  programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.) |  |

1. Fund received under TSP in 2019-20 (Rs. In lakh):
2. Achievements of physical outcome under TSP during 2019-2020

|  |  |  |  |
| --- | --- | --- | --- |
| 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 2019-2020

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***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)

Natural Resource Management

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of intervention undertaken | Numbers under taken | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | | Remarks |
|  |  |  |  | SC | | ST | | | Other | | Total | | |  |
|  |  |  |  | M | F | | M | F | M | F | M | F | T |  |
|  |  |  |  |  |  | |  |  |  |  |  |  |  |  |

Crop Management

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of intervention undertaken | Area (ha) | No of farmers covered / benefitted | | | | | | | | | | Remarks |
|  |  | SC | | ST | | | Other | | Total | | |  |
|  |  | M | F | | M | F | M | F | M | F | T |  |
|  |  |  |  | |  |  |  |  |  |  |  |  |

Livestock and fisheries

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of intervention undertaken | Number of animals covered | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | | Remarks |
|  |  |  |  | SC | | ST | | | Other | | Total | | |  |
|  |  |  |  | M | F | | M | F | M | F | M | F | T |  |
|  |  |  |  |  |  | |  |  |  |  |  |  |  |  |

Institutional interventions

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of intervention undertaken | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | | Remarks |
|  |  |  | SC | | ST | | | Other | | Total | | |  |
|  |  |  | M | F | | M | F | M | F | M | F | T |  |
|  |  |  |  |  | |  |  |  |  |  |  |  |  |

Capacity building

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic area | No of Courses | No of beneficiaries | | | | | | | | | |
|  |  | SC | ST | | | Other | | | Total | | |
|  |  | M | F | M | F | | M | F | M | F | T |
|  |  |  |  |  |  | |  |  |  |  |  |

Extension activities

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic area | No of activities | No of beneficiaries | | | | | | | | | |
|  |  | SC | ST | | | Other | | | Total | | |
|  |  | M | F | M | F | | M | F | M | F | T |
|  |  |  |  |  |  | |  |  |  |  |  |

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, 2020 | Ananta kumar Rout | 2020 | OUAT, Bhubaneswar | - | Conservations of local varieties of different crops |

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 |
| 01 | Subarnarekha Agriculture FPCL | (U01403OR2016PTC019763, DATED . 07.01.2016) | 07.01.2016  AT/PO- Panchurukhi,,  P.S – Baliapal,  DIST- Balasore,  ODISHA-756026 | Paddy,  Pulses & Paddy seed Production | Paddy  Pulses | 170 | 941250/- | - |
| 02 | Bhograi FPCL | (U01100OR2016PTC025221, Dated : 11.05.2016) | 11.05.2016  AT/PO-Soharia  PS-Bhograi BALASORE,  ODISHA-756036 | Paddy, Pulse &  Paddy seed | Paddy,  Pulse | 100 | 675251/- | - |

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** |
|  | Demonstration of Integrated Stem Borer Management in Summer Rice | Nursery treatment with carbofuran 3G@ 1.5kg a.i./ha + Pheromone trap @5Nos./ha for monitoring + soil application of Rynaxypyr 4G @ 10kg/ha and Spraying of cartap hydrochloride 50WP @ 2g/ltr at 45 DAT | 33245/- | 1100 | - |
|  | Cultivation of Submergence tolerant Paddy | Cultivation of Submergence tolerant variety Bina -11 of 125 days maturity | 50675 | 1800 |  |
|  | Demonstration of Sulphur application in Rice | N-P2O5-K2O @ 80:30:40kg/ha + Basal application of Sulphur@ 25kg/ha | 42575 | 1250 |  |

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 24.04.2019) | 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) |
| --- | --- | --- | --- |
| 11.09.2019 | Sj. Pratap Chandra Sarangi | Minister of State of Animal Husbandry, Dairying and Fisheries and Micro, Small and Medium Enterprises, GoI |  |

1. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2019

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 SIP Portal (Y/N) | Fund utilized for the training (Rs.) |
| SC | | ST | | Other | |
| M | F | M | F | M | F |
| Quality seed Grower | Pravamanjari Giri  Scientist (Agronomy) | 18.02.2020 | 21.03.2020 | 3 | 0 | 0 | 0 | 14 | 3 | Yes | 1,80,000 |
| Vermi-compost Producer | Dr. Gayatree Sahoo  Scientist (Plant Protection) | 18.02.2020 | 21.03.2020 | 01 | 0 | 0 | 0 | 19 | 0 | YES | 1,80,000 |

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2019:- No

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 NARI Project at KVK, Balasore**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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

***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 |
| - | - | - | - | - | - |

1. Good quality action photographs of overall achievements of KVK during the year (best 10): attached in JPEG format

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