**PROFORMA FOR ANNUAL REPORT2021 (January-December 2021)**

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 | 9658091561 | - | [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 |  |
| DEE, OUAT, Bhubaneswar | 0674-2397362 | - | deanextensionouat@yahoo.com |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| Dr. Swagatika Sahu | Qr-1, KVK, Campus, Devog, Baliapal | 9658091561 | swagatika1508@gmail.com |

1.4. Year of sanction of KVK: 1983

1.5. Staff Position (**as on 1stJanuary, 2021**)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. Swagatika Sahu | Senior scientist and Head | Fishery | 79,800 -2,11,500/- (87200/-) | 4/06/2021 | Permanent | Others |
| 2 | Subject Matter  Specialist | Dr. Amita rani Patra | Scientist | Home Science | 57,700- 1,82,400/- (79800/-) | 22/10/2009 | Permanent | Others |
| 3 | Subject Matter  Specialist | Dr. Pravamanjari Giri | Scientist | Crop Production | 15600- 39100/- (19050/-) | 01/01/2016 | Permanent | Others |
| 4 | Subject Matter  Specialist | Dr. Gayatree Sahoo | Scientist | Plant protection | 15600- 39100/- (19810/-) | 29/12/2015 | Permanent | Others |
| 5 | Subject Matter  Specialist | Kamalakanta Behera  (On study Leave) | Scientist | Ag. Extension | 57,700- 1,82,400/- (73,000/-) | 27/07/2018 | Permanent | Others |
| 6 | Subject Matter  Specialist | - | - | - | - | - | - | - |
| 7 | Subject Matter  Specialist | - | - | - | - | - | - | - |
| 8 | Programme Assistant | Niroj Kumar Jena | Programme Assistant | Seed Science | 35400- 1,12,400/-  41100/- | 28/12/2015 | Permanent | Others |
| 9 | Computer  Programmer | Raghunath Soren | Programme Assistant | Computer  Science | 35400- 1,12,400/-  41100/- | 04.06.2021 | Permanent | ST |
| 10 | Farm Manager | Krishnamayee Sethi | Farm Manager | Agronomy | 35400- 1,12,400/-  37,600/- | 29/01/2019 | Permanent | SC |
| 11 | Accountant / Superintendent | Vacant | - | - | - | - | - | - |
| 12 | Stenographer | Pravat Kumar Swain | Steno Cum Computer Operator |  | 25500-81100/-  29600/- | 06/03/2014 | Permanent | Others |
| 13. | Driver | Srikanta Sahoo | Driver Cum Mechanic |  | 19900- 63200/-  28400/- | 21/05/2018 | Permanent | Others |
| 14. | Driver | Rajesh Kumar Behera | Driver Cum Mechanic |  | 19900- 63200/-  26800/- | 04.06.2021 | Permanent |  |
| 15. | Supporting staff | Debendra Nath Das | Peon Cum Watchman |  | 4750- 14680/-  22900/- | 01/08/2008 | Permanent | Others |
| 16. | Supporting staff | Rajkishore Mohapatra | Peon Cum Watchman |  | 4750- 14680/-  24300/- | 26/12/2007 | Permanent | Others |

1.6. Total land with KVK (in 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** |

*Total area should be matched with breakup*

1.7. Infrastructure Development:

A) Buildings and others

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. 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 (6) |  |  |  |  | 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 godwn |  |  |  |  | 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, Please Specify |  |  |  |  | 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 | 8206KM | Running |
| Bolero | 2011 | 460534 | 157210 | Running |

C) Equipment & AV aids

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
| a. **Lab equipment** | | | | |
| MridaParikhyak | 2016-17 | 90000 | 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 |
| HD Projector | 2020-21 | 39490 | 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 |
| Fouda | 2018-19 | 1040 | Working |
| Sickle | 2018-19 | 560 | Working |
| Rose cane | 2018-19 | 600 | Working |
| Plastic pot | 2018-19 | 660 | Working |
| Plastic tub | 2018-19 | 400 | Working |
| Plastic tray | 2018-19 | 600 | Working |
| Plastic sprayer 5lit | 2019-20 | 1400 | Working |
| Tarpaulin poly sheet | 2019-20 | 14000 | Working |
| Sprayer 16L -20no. | 2020-21 | 30000 | Working |
| Rose Can 10L -15no | 2020-21 | 4950 | Working |
| Maize Sheller – 15no. | 2020-21 | 1650 | Working |
| Improved Sickle – 15no. | 2020-21 | 2400 | Working |

1.8. Details SAC meeting\* conducted in the year

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Date | Number of Participants | Salient Recommendations | Action taken | If not conducted, state reason |
| 1 | 22.12.2021 | 30 | * Tissue culture banana variety to be supplied to farmers * Demonstration & training to be conducted on Thrips & Mite management in chilli & wilt management in brinjal * Farmer should be trained on “Breeding/culture technology of fresh water tangra” & Singi * Popularization of cultivation practices of grafting technology of Brinjal & Tomato * Technology to be provided to farmers for cultivation of costlier ornamental fish varieties * Compost method for paddy straw mushroom cultivation should be assessed * Vermicomposting training to be imparted to mushroom growers * Training prog. on Paneer preparation & Packaging of Paneer in convergence with OLM & ORMAS * Training on Fodder cultivation should be conducted * Value addition of mushroom to be popularized * Popularization of biopesticide & biofertilizer use through training & Method demonstration * Potato variety like K-22, Kufri Surya to be popularized instead of Kufri jyoti * QPM of Betel vine to be produced at KVK * Vegetable & Fishery based IFS model to be popularized * Technical guidance to be provided to FPOs on in-land fisheries * Popularization of improve varieties of Yellow Sarson , Groundnut, Sunflower, Capsicum & Maize * New OUAT released varieties to be included in trial & demonstration programme * Training & demonstration on backyard poultry should be taken up | Will be conducted during 2022-23 |  |

*\* Salient recommendation of SAC in bullet form*

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

**PROCEEDINGS OF THE 25th SCIENTIFIC ADVISORY COMMITTEE MEETING KVK, BALASORE**

The **25h** Scientific Advisory Committee (SAC) Meeting of KVK, Balasore was held on 22.12.2021 in the Conference Hall of KVK under the Chairmanship of Prof. P.J. Mishra, Dean, Extension Education, OUAT, Bhubaneswar through physical & virtual mode.

The meeting was started at 11.00AM with a warm welcome to all the SAC members by Sr. Scientist & Head. Then Dean, Extension Education, OUAT briefed the objective & importance of the SAC meeting for the better functioning of KVK and started the proceedings as per the agenda. Dr. H.K. Sahoo, Deputy Director (UEBP), Directorate of Extension Education, OUAT, Bhubaneswar delivered introductory remarks on the activities of KVK, Balasore

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

Senior Scientist & Head presented the **Action Taken Report** of previous SAC (24th SAC-04.02.2021**)** of the KVK as per the recommendation of the last meeting as mentioned below.

**Action Taken Report on Recommendation of the 24th SAC Meeting**

|  |  |
| --- | --- |
| **Recommendations** | **Action Taken** |
| Submergence tolerant paddy varieties should be popularized | * **150nos.** of farmer’s awared during **03nos.** of training & 01 no. awareness prog. on cultivation of submergence tolerant paddy variety * Submergence tolerant rice cultivar viz., Bina dhan-11demonstrated during 2019-20 (Area -2ha, Demo-10nos.) |
| Result of demonstrations should be circulated to line departments | * Result of trials & demonstration has been circulated through SAC reports & Linkage meeting |
| KVK should provide linkage for promotion of inland fisheries/bio-floc in convergence with NABARD & Fisheries dept. | * 01no. of training (30nos. Fish grower) conducted in convergence with Fishery & ATMA, Baliapal at Balikuti village on 12.12.2021 |
| A fodder demonstration unit should be established at KVK | * Fodder demo unit (10ft x 10ft.) of Hybrid Napier var. CO-4 is established at KVK campus during 2021-22 * An azolla Unit (4ank & 08nos. Ring) established |
| Training on animal science in convergence with veterinary dept. | * 01day training on “Backyard rearing of kadaknath” conducted in Nov, 2021 involving **30nos**. of farmers at Nachipur, Remuna * **02nos.** of training on “Backyard rearing of improved breed of poultry bird” under SCSP (**60nos. Farmer)** at Silasuan & Sahada(Basta) * **01no.** of Animal health camp conducted in convergence with ARD at Raidhenk, Baliapal during 7.10.2021(Farmer benefitted -54) * **01no.** of residential training under ATMA will be conducted during January, 2022 |
| Up scaling of poultry breed kadaknath in the district through convergence with veterinary dept | * FLD on Kadaknath poultry has conducted at Tahalia & Silasuan (Remuna), Nilakanthapur (Bahanaga), Gadsahi (Jaleswar) involving **30nos.** of farmers * 500 nos. of 21days kadaknath chicks sold to **20**no. of farmers of Bhograi, Baliapal, Jaleswar & Basta block |
| Increase in production of mushroom spawn & supply to farmers in “OUAT Kalinga” brand | * **987nos.** of Spawn produced & supplied to **250nos.** of farmers during 2020-21 * 1150nos. of Spawn produced & Supplied to 110nos. Of farmers from April-December, 2021 * **350nos.** of Paddy straw spawn will be produced within March, 2022 |
| Technical support to Anganwadi workers/WSHGs for promotion of “Nutri-garden | * **02nos.** of training prog. Conducted involving **60nos.** of farm women at Silasuan (Remuna) & Raidhenk (Baliapal) on Nutri garden * **01no.** of in-service training conducted - 20nos. Of extension functionaries of OLM at KVK campus * Training imparted on “Nutri-garden” to **50nos.** of WSHG members during POSHAN MAH celebration & 50nos. Of seed kit provided * Campaign on “Food & nutrition” conducted at KVK campus involving **40nos.** of WSHG members of Baliapal block * **02nos.** of FLD involving 20WSHG members conducted at Dantunida, Raidhenk (Baliapal), Silasuan (Remuna) * Technical knowledge provided to 50nos. Of WSHG members of Baliapal during “Odisha Poshan Mela” 6-12th Dec, 2021 |
| Machineries for post harvest management of fruits &vegetables should be popularized among WSHGs | * Machineries like Solar Dryer (Mushroom), Sealing machine (tomato) popularized among WSHG members * Demonstration on “Groundnut stripper” will be conducted during Summer, 2022 |
| Value addition of milk should be promoted | * 01no. of training on “Preparation of value added product from milk” conducted involving **30nos.** of dairy farmers of Bhograi block at Dupal village. * Demonstration of “Paneer pressing machine” conducted at Dupal, Bhograi involving **10nos.** of WSHG Dairy farmers. * Mass awareness on “value addition of milk & use of Paneer pressing machine” created during “Zilla Gau-Sambardhana Utsav-2021” at Basta * 03days training on “Preparation of value added products from milk” will be conducted for 20nos. of SC dairy farmers Within March, 2022 |
| Officials of financial institutes/Entrepreneur should be invited to skill development training/ demonstration | * Entrepreneurs of Mushroom, Fishery & Organic pesticide Producer has been invited to 03nos. of Rural youth training programme (60nos. Trainees) |
| Promising varieties of vegetable crops should be popularized | * Triple disease resistant Tomato var. Arka Rakshak demonstrated at Chadapalabegunia & Raidhenk (Area – 2acre, farmer- 10nos.) during Rabi, 2021-22 * **45250nos.** of Seedlings of improved varieties of different vegetable crops produced & supplied to more than 300nos. of farmers from April-Dec, 2021 |
| Compost method for paddy straw mushroom cultivation should be assessed | * Compost method for paddy straw mushroom cultivation will be assessed during Kharif, 2022 |
| Training/demonstration should be conducted on “Alternate substrate for mushroom cultivation” | * Training on “PS Mushroom cultivation by use of scrambled straw” conducted at Mathani, Basta (**30nos.** of farmer) * Demonstration on “PS Mushroom cultivation by use of scrambled straw” conducted at Mathani, Basta (**10nos.** of farmer) |
| Promotion of value addition of oyster mushroom | * 01no. of 01day training (30WSHG member) conducted during Dec, 2021 * Imparted training on value addition of oyster mushroom during 02nos. of Rural youth training (40nos. of trainees) during Sept., 2021 |
| INM, IPM & Post Harvest management in Groundnut to be promoted | * OFT on “Integrated management of Tikka & Collar Rot disease” conducted at Majhipada, Baliapal (area- **2ha**, Demo-**07**) * INM (Use of biofertilizer & micronutrient Boron) promoted in Groundnut through CFLD (Area-**20ha**, Farmer-**51nos**) * Groundnut Stripper will be demonstrated during Rabi, 2021-22 |
| Promotion of pheromone trap by KVK for pest Management | * Awareness & practical demonstration on Use of pheromone trap in **02nos.** Of RY training (**40nos.** Trainees) * Promoted through **02nos.** of FLD in Brinjal (Fruit & Shoot borer) – Kharif, 2021 & Mustard crop (*Spodoptera litura*) –Rabi, 2021-22 involving 20nos. of farmer) |
| High protein rice varieties (CR Dhan 310, 311 & 315) to be included for nutritional security | * An OFT on “Assessment of protein rich rice varieties (CR Dhan 310 & 311)” has been conducted including **07nos.** of farmers during Kharif, 2021 at Chadapalabegunia, Parulia & Jamla (Baliapal) – Area – 01ha, Farmer-07nos. * **60nos.** of farmers were trained on “Biofortified cultivars of Rice” during **02nos.** of training programme * Created awareness among **100nos.** Farmer & farm women during Poshan Mah celebration |
| Climate-smart varieties i.e., CR Dhan 801 and CR Dhan 802 (tolerant to both submergence and drought should be assessed in Balasore condition. | * An OFT on “Assessment of climate smart rice varieties (CR Dhan 801 & 802)” has been conducted involving **07nos.** of farmers during Kharif, 2021 at Gadsahi (Jaleswar). |
| Lodging resistant paddy var. CR Dhan 602 should be assessed in Balasore condition. | * **02nos.** of OFT on varietal evaluation of Rice are taken during 2021-22. So OFT on CR Dhan 602 will be taken up during Kharif, 2022-23 |
| New variety of Pulses should be popularized | * Improved Pulse variety Indira Urd-1 of Black gram is demonstrated under CFLD –Pulse during Rabi, 2021 (Village – Basulidiga, Basta , Area – 10ha, Farmer – 26) * Improved Pulse variety IPM-02-14 of Green gram is demonstrated under CFLD –Pulse during Rabi, 2021 (Village – Bishnupur, Baliapal Area – 10ha, Farmer – 35) * 02nos. Training (60nos. Farmer) conducted |

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

The Sr. Scientist & Head presented the achievements for the year Rabi, 2020-21 & Kharif, 2021

**Training:**

* KVK has conducted 48 nos. training programmes for practicing farmers and farm women (1440nos. trainees), 02nos. for rural youth (40nos. trainees) and 04nos. for extension functionaries (80nos. trainees), 04nos. of CFLD training (120 nos. trainees), 16nos. GKRA training (48days – 560nos. migrant trainees) & 01no. of pesticide dealer training (40nos. trainees) during 2020-21
* KVK has conducted 28 nos. training programmes for practicing farmers and farm women (840nos. trainees), 05nos. for rural youth (100nos. trainees) and 02nos. for extension functionaries (40nos. trainees), 11nos. of training under SCSP (320 nos. trainees), 04nos. PCRA training (120nos. trainees) & 01no. of training under ATMA (30nos. trainees) during April-Dec., 2021-22

**On farm testing (OFT):**

KVK has conducted OFTs (07nos. during Rabi, 2020-21) & (03nos. during Kharif, 2021) **SALIENT ACHIEVEMENTS OF MAJOR**

**OFTS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Title of OFT** | **Farmers’ practices** | **Recommended practice** | **Yield (q/ha)** | | | **Yield**  **Increase**  **(%)** |
| FP | TO1 | TO2 |
| Assessment of herbicide for weed management in Rabi Green gram | Manual weeding at 25 DAS | TO1: Pre-emergence application of Pendimethalin @1000g ai/ha  TO2: Post-emergence application of Imazethapyr @75gai/ha at 20 DAS  TO3: Pre-emergence application of Pendimethalin @1000g ai/ha followed by early post emergence of Imazethapyr @75gai/ha at 20 DAS | 57.1 | 68.2 | 71.2/  76.2 | 16.2/  19.7 |
| Assessment of protein rich rice varieties | Cultivation of Naveen | TO1: Cultivation of CR Dhan -310  TO2: Cultivation of CR Dhan -310 | 43.4 | 44.5 | 46.2 | 2.5/  6.1 |
| Assessment of PSB & VAM in Groundnut | Application of N-P2O5-K2O @ 20:40:40kg/ha | TO1: N-P2O5-K2O @ 20:40:40kg/ha + Seed treatment with Rhizobium@ 50g /kg of seed) + PSB@ 5kg/ha  TO2: N-P2O5-K2O@ 20:40:40kg/ha+ Rhizobium@ 50g/kg of seed + PSB@ 5kg/ha + VAM@ 5kg/ha | 20.8 | 23.1 | 26.4 | 11.0/  26.9 |
| Assessment of Integrated nutrient Management in Betel vine | Application of N-P2O5-K2O(350-375-120) + Poultry manure (37.5t/ha) + Mustard oil cake (1.5t/ha) | **TO1 :** STBR + Mustard oil cake@1.5t/ha+Vermicompost@10t/ha  **TO2 :** STBFR (50%) + Mustard oil [cake @ 1.5t/ha + Vermicompost @10t/ha + consortia](mailto:cake@1.5t/ha+Vermicompost@10t/ha+consortia) of Azotobacter, Azospirillum & PSM each @ 4kg/ha inoculated to 300kg VC, Mixed with 15kg Lime, incubated at 30% moisture for a week & applied in rhizosphere | 48.6 | 56.2 | 57.4 | 15.6/  18.1 |
| Assessment of integrated management of Tikka and Collar rot disease in Ground nut | Application of Metalaxyl + Mancozeb @ 2ml/lit water | TO1: Seed treatment with Carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of Chlorothalonil 75 WP (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval  TO2: Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application o*f T. viride @* 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride @* 4kg enriched in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of foliar diseases and 2nd spray at 15 days interval | 20.2 | 24.6 | 25.9 | 21.7/  28.2 |
| Assessment of crumple paddy straw for production of paddy straw mushroom | Production of paddy straw mushroom by using7to 8 kg unscrambled paddy straw ,soaked for 8 hours | TO1: Mushroom production by using crumple paddy straw (soaking in water-8hr, paddy straw 7kg, pulse powder 3%)  TO2: Mushroom production by using crumple paddy straw (soaking in water-5hr, paddy straw 7kg, pulse powder 3% | 750g/bed | 725g/  bed | 700g/  bed | - |
| Assessment of bio-priming in Green gram | Sowing of unprimed seed | TO1: Sowing of Liquid Rhizobium (5%)  TO2: Seed priming with liquid PSB (5%)  TO3: Seed priming with Pseudomonas (5%) | 6.2 | 8.1 | 7.8/  7.6 | 24.6/20/  16.9 |
| **Kharif-2021** | | | | | | |
| Assessment of protein rich rice varieties | Cultivation of Naveen | TO1: Cultivation of CR Dhan 310  TO2: Cultivation of CR Dhan 311 | 40.2 | 41.4 | 44.3 | 6.1/9.2 |
| Assessment of climate smart rice varieties | Cultivation of Swarna | TO1: Cultivation of CR Dhan 801  TO2: Cultivation of CR Dhan 802 | 38.6 | 46.5 | 48.1 | 16.9  /19.7 |
| Assessment of integrated management of leaf Blast disease in Paddy | Application of Tricyclazole 75WP @ 1g/ lit thrice at 10 to 15 days interval | TO1: Seed treatment with Carbendazim @2g/kg + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray  TO2: Seed treatment with *Pseudomonas flurosence* @ 10g/lit water for 30 min + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray | 37.50 | 48.75 | 52.50 | 30.0/40.0 |

**Front Line Demonstration (FLD):**

KVK has conducted FLDs (08nos. during Rabi, 2020-21) & (05nos. during Kharif, 2021)

**SALIENT ACHIEVEMENTS OF MAJOR FLDS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Title** | **Farmers’ practice** | | **Recommended practices** | **Yield (q/ha)** | | | **Yield Increase (%)** | |
| **FP** | **RP** | |
| **1** | **2** | | **3** | **4** | **5** | | **6** | |
| Demonstration of crop diversification in Rice-Rice cropping system | Cultivation of rice followed by rice in the same piece of land | | Demonstration of Rice-Maize cropping system | 4.8 (REY) | 6.5 (REY) | | 26.1 | |
| Demonstration of Bunch feeding in banana for yield enhancement | Application of NPK @ 200:120:250g/plant , No bunch feeding of nutrients | | STBFR + Blending 15g (7.5g Urea & 7.5g of sulphate of potash) dissolved in 100ml water in 500g of fresh cow dung & applying the slurry to the de-navelled stalk end soon after fruit set | 312.8 | 390.9 | | 24.97 | |
| Demonstration of INM in pointed gourd | Application of N-P2O5-K2O @ 120:60:50kg/ha , No use of bio-fertilizers | | STBFR + Consortia of Azotobacter, Azospirillum and PSM each @ 4.0 kg/ha inoculated to 300 kg of FYM, mixed with 15 kg of lime, incubated at 30% moisture for a week & applied in rhizosphere at the time of planting root suckers | 178.2 | 206.8 | | 16.05 | |
| Demonstration of INM in Brinjal | Application of N-P2O5-K2O @ 200:150:100kg/ha + FYM@ 2t/ha | | Appl i c a t i on of 75% of STBFR Fe r t i l i ze r N + 100% fertilizer P & K + FYM @ 2t/ha + Bio-inoculation of Azotobacter@4kg/ha + Azospirilum@ 4 kg/ha with 200kg prelimed FYM (Lime 10kg) incubated for 7 days at 30% moisture & applied in rhizosphere at the time of planting | 382.5 | 428.6 | | 12.05 | |
| Demonstration on management of purple blotch disease in onion | Spraying of Hexaconazole 5EC @ 2ml/ltr water | | Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection | 262.0 | 325.0 | | 24.05 | |
| Demonstration of nutritional garden for Improving Nutritional Security of farm family | Uneven landmass: Brinjal, Tomato, Onion, Cucumber, Okra, Cauliflower, Amaranth with papaya/drumstick | | Nutritional Gardening in proper lay out (area 20mx10m) for 4-6 family members. Growing all types of vegetables such as GLV ,roots and tubers ,yellow vegetables and other vegetables along with planting of drumstick, lime and fruit plants like Papaya and Banana for getting available vitamin and mineral rich nutrients round the year | 200 g (Consumption of vegetables/day) | 400 g (Consumption of vegetables/day) | | Additional intake 200 g | |
| Demonstration on Poultry breed Kadaknath for higher income | Rearing of desi breeds | | Rearing of poultry breed Kadaknath in backyard after brooding up to 21 days with proper vaccination | 0.6 (kg / 6months) | 0.9 (kg / 6months) | | 33.3 | |
| Demonstration of water soluble fertilizer in black gram for higher seed yield | Basal application of N-P2O5-K2O@ 20:40:40kg/ha, No foliar application of nutrients | | Basal application of 75%STBFR (N-P2O5-K2O@ 15:30:30kg/ha + Foliar application of Water Soluble Fertilizer (NPK-18:18:18) @ 2% at 25 and 40 DAS | 6.4 | 8.7 | | 35.9 | |
| **Kharif-2021** | | | | | | | | |
| Demonstration of herbicide Penoxsulam in transplanted rice | | Manual weeding at 30 DAT | Post emergence application of penoxsulam 24 SC @ 25g ai/ha at 12 DAT followed by hand weeding at 30 DAS | 42.9 | | 51.3 | | 16.4 |
| Demonstration of BPH tolerant rice variety “Hasanta” | | Cultivation of Swarna | Cultivation of BPH tolerant rice cultivar Hasanta | 40.6 | | 48.8 | | 16.8 |
| Demonstration of herbicide in rice-groundnut cropping sequence | | Manual weeding at 30 DAT in rice & 25 DAS in groundnut | Bensulfuron methyl + Pretilachlor in rice fb hand weeding, Pre-emergence application of Oxyflurfen in groundnut | 42.7 | | 49.5 | | 13.7 |
| Demonstration on paneer pressing machine for higher income | | Selling of raw milk | Boiling of milk and adding citric acid 2gm/lit. of milk at 75-80C temp. Coagulated milk is followed by pressure by Paneer pressing machine | - | | 180 g Paneer | | - |
| Demonstration of Production of paddy straw mushroom by use of scrambled straw | | Production of paddy straw mushroom by use of paddy straw | Mushroom production by using scrambled paddy straw (soaking in water-6hr, paddy straw 7kg, pulse powder -3%) | 800 g | | 750 g | | - |

**CLUSTER FRONTLINE DEMONSTRATION (CFLD) – 2020-21**

Cluster Frontline Demonstration is conducted in Oilseed crops like Groundnut (20ha-Dagara, Baliapal), Sesamum (10ha-Gadasahi, Jaleswar) & in Pulses like Green Gram (10ha-Bishnupur, Baliapal) & Black gram (10ha-Basulidiga, Basta) area.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Crop** | **Intervention** | **CFLD yield**  **(q/ha)** | **Local yield**  **(q/ha)** | **% yield increase over local** |
| **Green**  **Gram** | * + - Line sowing     - Certified Seed of Green gram Var. IPM-02-13@ 20kg/ha     - Seed Treatment with Rhizobium culture and PSB each @20g per Kg seed before 3-4 hours of sowing.     - Post emergence application of Imazethapyr @ 200 ml per Acre for weed management     - Foliar spraying of Thiodicarb @ 1.5 g per litre water at pod formation stage for pod borer Management     - Application of Acetamiprid @ 1gm per 2lit water and use of yellow Sticky Trap@ 20 nos. per acre for management of whitefly | 7.3 | 5.2 | 35.19 |
| **Black**  **Gram** | * Foundation seed of Black gram var. Indira Urd 1@ 20kg/ha * Seed treatment with Rhizobium culture and PSB * Post emergence application of herbicide Imazethapyr@1ltr/ha at 15-20DAS * Application of soluble fertilizer 19:19:19@ 5g/ltr water for better flowering and seed setting * Application of wettable sulphur @ 3g /lit for powdery mildew * Application of Thiodicarb for pod borer complex * Application of Thiamethoxam@ 1g/3ltr water and installation of Yellow sticky trap@ 20nos./ha for managing whitefly. | 7.6 | 5.3 | 41.8 |
| **Groundnut** | * Seed treatment with Rhizobium & PSB liquid each @ 50ml/kg seed * Soil application of Boron 10.5%(borax)@ 10kg/ha * Post-emergence use of herbicide Imazethapyr @1Ltr/ha at 20DAS for broad spectrum weed control * Use of Ridomil gold (Metalaxyl+Mancozeb)@ 2.5g/ltr water alternatively with Chlorothalonil 75%@ 2ml/ltr for management of Tikka, Stem rot & root rot at pod formation stage * Installation of pheromone trap (Spodolure)@ 5nos./ha for monitoring of Spodoptera pest * Spraying of Emamectin benzoate@ 0.4g/ltr for management of BHC & *Spodoptera sps.* * Spraying of Flonicamid 50%@ 5g/15ltr water for sucking pest management | 26.0 | 20.5 | 26.8 |
| **Sesamum** | * Foliar application of Boron 10.5%(borax)@ 2.5g/ltr water for better flowering & fruit set * Foliar application of Sulphur 20%@ 2.5ml/ltr water for improving oil content * Spraying of Neem oil@ 3ml/ltr at 30Das for control of sucking pest * Emamectin benzoate@ 0.4g/ltr at 40DAS for management of Capsule borer * Installation of yellow sticky trap@ 20nos./ha | 7.7 | 6.2 | 24.19 |

**OTHER EXTENSION ACTIVITIES:**

KVK has conducted the following extension activities during 2021-22

| **Sl. No.** | **Extension activities** | **No. of activities** | **No. of beneficiaries** |
| --- | --- | --- | --- |
|  | Field days | 02 | 110 |
|  | Research – Extension interface meeting | 05 | 75 |
|  | Special day celebration (World food day, Agricultural education day, Mahila Kisan Divas, World Soil Day, Interaction with Hon’ble PM) | 15 | 510 |
|  | Animal Health Camp | 01 | 60 |
|  | Workshop | 04 | 120 |
|  | Scientists visit to farmers’ field | 240 | 380 |
|  | No. of farmers visit to KVK | - | 875 |
|  | Diagnostics visit | 45 | 496 |
|  | Group meeting | 10 | 350 |
|  | Film show | 20 | 600 |
|  | Lectures delivered as resource person | 15 | 450 |

**PLANTING MATERIALS PRODUCED**

During 2021-22, **57205nos.** of seedlings of Drumstick, Tomato, Brinjal, Chilli, Onion, Cauliflower, Cabbage & Knolkhol, **1630nos.** of Papaya seedlings, 545nos. of forest saplings, 1150nos. of mushroom spawn bottle & **1494nos**. of chicks has been produced & supplied to the farming community.

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

The Sr. Scientist & Head presented the action plan of KVK for the year 2022-23. 08nos. of OFTs, 16nos. of FLDs, 67nos. of trainings for farmers and farm women, 14 nos. for rural youths and 08nos. for extension functionaries formulated for this period were discussed.

**Agenda-IV: 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.

* Frequent Power failure
* Requirement of S.O.
* Renovation of Farmers hostel
* Fund required for maintenance demo unit

KVK newsletter “The Shyamala” and 02nos. leaflets “*Dhana fasalare Matia gundi pokara samanyita Parichalana*” & “*Azolla Chasa*” were released by the dignitaries during the occasion.

The meeting was concluded at 2.30PM with a warm vote of thanks by Dr. Amita rani Patra, Scientist (Home Science).

**LIST OF MEMBERS ATTENDED THE 25TH SCIENTIFIC ADVISORY COMMITTEE MEETING**

**OF KVK, BALASORE ON 22.12.2021**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name** | **Designation and Address** | **Remarks** |
|  | Prof. P.J. Mishra | Dean, Extension Education, OUAT, BBSR | Chairman |
|  | Dr. F. H. Rahman | Principal Scientist, ATARI-Kolkata | Member |
|  | Dr. H.K. Sahoo, | Deputy Director (UEBP), DEE, OUAT, BBSR | Member |
|  | Dr. P. Pati | ADR, RRTTS, Ranital | Member |
|  | Dr. Sujata Sethi | Sr. Scientist & Head, KVK, Cuttack | Member |
|  | Charulata P. Singh | BAO, Baliapal (O/O CDAO, Balasore) | Member |
|  | Subrat Kumar Chand | ADH, Nilgiri (O/O DDH, Balasore) | Member |
|  | Dr. Jagdish Barik | AVAS, Bhograi (O/O CDVO, Balasore) | Member |
|  | Swayamprava Bal | AFO, Baliapal | Member |
|  | Sweekruti swarupa Mishra | Additional fisheries Officer (O/O DFO, Balasore) | Member |
|  | Tapas ranjan Pradhan | DDM, NABARD, Balasore | Member |
|  | Rashmi Ranjan Patra | ADSC (O/O PD, Watershed, Balasore) | Member |
|  | Saudamini Patra | LS, ICDS, Baliapal (O/O DSWO, Balasore) | Member |
|  | Gobinda Dalai | Director, YVF, Niliabag, Balasore (NGO) | Member |
|  | Nimai Chandra Pradhan | Consultant, Spash NGO, Basta | Member |
|  | Dr. Sanghamitra Pattnayak | Senior Scientist & Head, KVK, Mayurbhanj-1 | Member |
|  | Dr. Aurobinda Das | Senior Scientist & Head, KVK, Bhadrak | Member |
|  | Anjan Kumar Dandapat | Farmer, Sahada, Basta | Member |
|  | Sri Dhananjaya Giri | Farmer, Gadsahi, Jaleswar | Member |
|  | Jasobanta Pradhan | Farmer, Birapalia, Baliapal | Invitee |
|  | Gautam Senapati | Farmer, Sahada, Basta | Invitee |
|  | Ms. Anjali Pradhan | Farm women, Birapalia, Baliapal | Invitee |
|  | Ms. Urmila Behera | Farm women, Machhua, Nilgiri | Member |
|  | Dr Swagatika Sahoo | Sr. Scientist & Head, KVK Balasore | Member |
|  | Dr Amita Rani Patra | Scientist (Home Sc), KVK Balasore | Participant |
|  | Dr Pravamanjari Giri | Scientist (Agronomy), KVK Balasore | Participant |
|  | Dr. Gayatree Sahoo | Scientist (PP), KVK Balasore | Participant |
|  | Sri Niroj Kumar Jena | Prog. Asst. (Seed Sc), KVK Balasore | Participant |
|  | Ms Krishnamayee Sethi | Farm Manager, KVK Balasore | Participant |
|  | Sri Raghunath Soren | Prog. Asst. (Computer), KVK Balasore | Participant |

2.a. District level data on agriculture, livestock and farming situation (2021)

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

Note: Please give recent data only

| Sl.  No. | Name of Taluk | Name of the block | Name of the villages | Major crops  & enterprises | Major problems identified (crop-wise) | Identified Thrust Areas |
| --- | --- | --- | --- | --- | --- | --- |
|  | Balasore | Remuna | Silasuan | Paddy, Vegetables, Toria, Groundnut | Submergence problem in Paddy, Low yield in vegetables | * Integrated insect pest and disease management practices * Integrated nutrient management * Value addition |
|  | Balasore | Bahanaga | Nilakanthapur | Paddy, Toria, Vegetables | Disease pest in Rice, Non-availability of drought tolerant paddy var., Improper nutrient management in vegetables | * Diversified cropping pattern * Integrated insect pest and disease management practice * Integrated nutrient management |
|  | Balasore | Baliapal | Raidhenk | Paddy, Groundnut, Toria, Vegetables, Dairy | Submergence in Paddy, Low yield in Toria, Purple blotch in Onion, Desi poultry breed | * Integrated nutrient management * INM & IPM in Toria * IDM in Onion |
|  | Balasore | Basta | Basulidiga | Paddy, Pulses | Adoption of local varieties of rice, Low yield in pulses | * Introduction of new paddy variety * INM in Green gram |
|  | Balasore | Jaleswar | Gadsahi-Baliapal | Paddy, Toria, Sesamum, Vegetables, Banana | Adoption of local varieties of rice, low yield of mustard & Sesamum | * Diversified cropping pattern * IPM in chilli, Brinjal * INM in Toria |

2.b. Details of operational area / villages (2021)

2. c. Details of village adoption programme:

Name of the villages adopted by PC and SMS (2020) 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 |
| Raidhenk | Baliapal | Training, OFT, FLD, Animal health camp, |
| Basulidiga | Basta | Training, IRRI head to head trial, FLD Awareness Programme on Schemes of Line Department |
| Gadsahi-Baliapal | Jaleswar | Training & FLD on Sheath blight management |

2.1 Priority thrust areas

|  |  |
| --- | --- |
| **S. No** | **Thrust area** |
| 1. | Early, medium, flood tolerant, protein rich 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 , vermi-compost & pisciculture |
| 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 |
| 09 | 09 | 63 | 3 | 4 | 0 | 0 | 40 | 16 | 43 | 20 | 63 | 20 | 20 | 200 | 15 | 5 | 5 | 5 | 132 | 38 | 152 | 48 | 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 |
| 60 | 74 | 1800 | 233 | 121 | 18 | 28 | 1103 | 615 | 1364 | 756 | 2120 | 50 | 76 | 1500 | - | - | - | - | - | - | **2510** | **1070** | **3580** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 120 | 120 | 11 | 0 | 0 | 0 | 86 | 13 | 107 | 13 | 120 | | 3580 | 3580 | - | - | - | - | - | - | 2510 | 1070 | 3580 |

|  |  |  |  |
| --- | --- | --- | --- |
| Seed production (q) | | Planting material (in Lakh) | |
|  | |  | |
| Target | Achievement | Target | Achievement |
| - | - | 0.50 | 0.49 |

|  |  |  |  |
| --- | --- | --- | --- |
| Livestock strains and fish fingerlings produced (in lakh)\* | | Soil, water, plant, manures samples tested (in lakh) | |
|  | |  | |
| Target | Achievement | Target | Achievement |
| 0.019 | 0.019 | 0.005 | 0.005 |

* \* 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 | 02 | - | - | - | - | - | - |
| Books | **01** | **40** |  |  |  |  |  |
| Bulletins |  |  |  |  |  |  |  |
| News letter | **02** | **1000** |  |  |  |  |  |
| Popular Articles |  |  |  |  |  |  |  |
| Book Chapter |  |  |  |  |  |  |  |
| Extension Pamphlets/ literature | **02** | **1000** |  |  |  |  |  |
| Technical reports | **19** | **100** |  |  |  |  |  |
| Electronic Publication (CD/DVD etc) | **01** | **40** |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |

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

**OFT-1**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On Farm Trial | **Assessment of protein rich rice cultivars** |
| 2. | Problem diagnosed | Nutritionally insecure due to much dependent on rice and unavailability of protein rich variety |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1 : CR Dhan 310 has duration (120-125 days), semi-dwarf plant type with medium slender and good grain quality. It is suitable for irrigated and favorable shallow Rainfed areas and national average grain yield is 4.5 t/ha and its protein contain in polished rice in 10.2%  TO2 : CR Dhan 311 has duration (120-125 days), semi-dwarf plant type with long bold grain and good cooking and eating quality. It is suitable for irrigated and favorable shallow Rainfed areas and national average grain yield is 4.3 t/ha and in Odisha 5.5 t/ha. Its protein contain in polished rice in 10.1% and Zn content is moderately high (20 ppm). |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | Research bulletin(15), Annual report, 2018 |
| 5. | Production system and thematic area | Rice-rice/greengram system, Varietal evaluation |
| 6. | Performance of the Technology with performance indicators | No. of effective tillers/hill, No. of spikelet per panicle, test weight |
| 7. | Final recommendation for micro level situation | Cultivation of CR Dhan-311 helps in nutritional security along with 9.25% increase in grain yield as compare to farmer’s existing cultivar |
| 8. | Constraints identified and feedback for research | Lodging of CR Dhan -310 due to longer plant height |
| 9. | Process of farmers participation and their reaction | As the variety is rich in protein, farmers eagerly accepted the new technology for consumption |

*Thematic area: Varietal evaluation*

Problem definition: Nutritionally insecure due to much dependent on rice and unavailability of protein rich variety

Technology assessed: Assessment of protein rich rice cultivar for nutritional security

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.) |
| Farmer practice | 07 | 8.4 | 95 | 21.4 | 10 | 40.2 | 48500 | 77988 | 29488 | 1.61 |
| TO1 : Cultivation of CR Dhan 310 | 07 | 9.1 | 102 | 20.1 | 12 | 41.4 | 48500 | 80316 | 31716 | 1.66 |
| TO2 : Cultivation of CR Dhan 311 | 07 | 9.2 | 112 | 20.4 | 8 | 44.3 | 48500 | 85942 | 37442 | 1.77 |

Results: Cultivation of CR Dhan-311 helps in nutritional security along with 9.25% increase in grain yield as compare to farmer’s existing cultivar

OFT-2

|  |  |  |
| --- | --- | --- |
| 1. | Title of On Farm Trial | Assessment of climate smart rice cultivars |
| 2. | Problem diagnosed | Yield loss due to both submergence and drought prevailing during the same cropping season |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1 : It has short bold grain with a test weight of 20.5 g having a maturity duration of 140 days. It gives about 6.3 t ha-1 yield under normal condition and 4 t ha-1 under submergence while 2.9 t ha-1 under drought conditions.  TO2 : It has short bold grain with a test weight of 19.0 g having a maturity duration of 139 days. It produces an average yield of 6.5 t ha-1 under normal condition and 4.3 t ha-1 under submergence while 2.3 t ha-1 under drought conditions. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | ICAR-NRRI, 2019 |
| 5. | Production system and thematic area | Rice-rice/vegetable/greengram system, Varietal evaluation |
| 6. | Performance of the Technology with performance indicators | No. of effective tillers/hill, No. of spikelet per panicle, test weight, days of submergence |
| 7. | Final recommendation for micro level situation | Cultivation of CR Dhan-802 gave 19.7 % increase in yield over the farmers variety Swarna where there was submergence over a period of 1 week |
| 8. | Constraints identified and feedback for research | These submergence tolerant rice cultivars gave higher yield in flood affected area |
| 9. | Process of farmers participation and their reaction | Farmers are actively participated and were enthusiastic to take the new variety for the sequential flood and drought occurrence in the same field |

*Thematic area: Varietal evaluation*

Problem definition: Yield loss due to both submergence and drought prevailing during the same cropping season

Technology assessed: Assessment of climate smart rice cultivar

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.) |
| Farmer practice | 07 | 8.0 | 84 | 18.3 | 32 | 38.6 | 48000 | 74884 | 26884 | 1.56 |
| TO1 : Cultivation of CR Dhan 801 | 07 | 10.3 | 96 | 21.5 | 16 | 46.5 | 48000 | 90210 | 42210 | 1.87 |
| TO2 : Cultivation of CR Dhan 802 | 07 | 10.5 | 105 | 21.8 | 11 | 48.1 | 48000 | 93314 | 45314 | 1.94 |

Results: Cultivation of CR Dhan-802 increase the grain yield by 19.7 % as compare to the farmers existing variety as affected by flood during the cultivation

OFT-3

|  |  |  |
| --- | --- | --- |
| 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 (ICAR/ AICRP/SAU/other, please specify) | 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 pod/plant | No. of branches per plant | Test wt. (100 kernel wt.) |
| FP | 07 | 21.7 | 4.27 | 46.4 | 21.1 | 20.8 | 58000 | 104000 | 46000 | 1.79 |
| TO-1 | 07 | 24.3 | 4.81 | 48.1 | 10.4 | 23.1 | 60000 | 115000 | 55500 | 1.93 |
| TO-2 | 07 | 27.0 | 4.78 | 48.8 | 7.4 | 26.4 | 61000 | 132000 | 70400 | 2.14 |

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

OFT-4

|  |  |  |
| --- | --- | --- |
| 1. | Title of On Farm Trial | **Assessment of Integrated nutrient Management in Betel vine** |
| 2. | Problem diagnosed | Low leaf yield & quality of betelvine |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1: STBR + Mustard oil cake@1.5t/ha+Vermicompost@10t/ha  TO2: STBFR (50%) + Mustard oil [cake @ 1.5t/ha + Vermicompost @10t/ha + consortia](mailto:cake@1.5t/ha+Vermicompost@10t/ha+consortia) of Azotobacter, Azospirillum & PSM each @ 4kg/ha inoculated to 300kg VC, Mixed with 15kg Lime, incubated at 30% moisture for a week & applied in rhizosphere |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | Annual report, AICRP on MAP &B, 2012-13 |
| 5. | Production system and thematic area | Betel vine round the year and Integrated nutrient management |
| 6. | Performance of the Technology with performance indicators | Vine length, No. of leaves/vine, Leaf yield (lakhs/ha), B:C Ratio |
| 7. | Final recommendation for micro level situation | Addition to STBFR practice, application of mustard oil cake, consortia of azotobacter, azospirillum and PSB inoculated with vermicompost increased the leaf yield |
| 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 psocess 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 leaf yield & quality of betelvine

Technology assessed: Bioinoculation of Azotobacter, Azospirillum and PSB in vermicompost along with mustard cake application on leaf yiled of betelvine

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Leaf yield (No. of leaves lakh/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of leaves/vine | Leaf yield (No. of leaves lakh/ha) | Vine length (cm) |
| FP | 07 | 46.2 | 48.6 |  | 28.3 | 48.6 | 1745000 | 2430000 | 685000 | 1.39 |
| TO-1 | 07 | 54.3 | 56.2 |  | 8.6 | 56.2 | 1700000 | 2810000 | 1060000 | 1.61 |
| TO-2 | 07 | 55.4 | 57.4 |  | 7.9 | 57.4 | 1748000 | 2870000 | 1122000 | 1.64 |

Results: Addition to STBFR practice, application of mustard oil cake, consortia of Azotobacter, Azospirillum and PSB inoculated with vermicompost increased the leaf yield

OFT-5

|  |  |  |
| --- | --- | --- |
| 1. | Title of On Farm Trial | **Assessment of bio-priming in Green gram** |
| 2. | Problem diagnosed | Poor germination & plant population in Green gram crop sown under residual moisture |
| 3. | Details of technologies selected for assessment/refinement  (Assessed) | Technology option-I (TO-I): Seed priming with liquid Rhizobium (5%)  Technology option-II (TO-II): Seed priming with liquid PSB(5%)  Technology option-III (TO-III): Seed priming with Pseudomonas (5%) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | Department of Seed Science and Technology, Agricultural College and Research Institute, TNAU, 2019 |
| 5. | Production system and thematic area | INM |
| 6. | Performance of the Technology with performance indicators | Germination %, Pods/plant (no.), Seed yield (q/ha), B:C Ratio |
| 7. | Final recommendation for micro level situation | Seed priming with liquid Rhizobium (5%) |
| 8. | Constraints identified and feedback for research |  |
| 9. | Process of farmers participation and their reaction | Farmers are actively participated in this programme& were satisfied with the results. |

Thematic area: INM

Problem definition: Poor germination & plant population in Green gram crop sown under residual moisture

Technology assessed: Bio-priming in 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 pods/plant | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP | 7 | 21.9 | - | - | Pod borer | 6.2 | 23250 | 39000 | 15750 | 1.67 |
| TO1 | 7 | 25.9 | - | - | Pod borer | **8.1** | **23875** | **48600** | **24725** | **2.03** |
| TO2 | 7 | 24.9 | - | - | Pod borer | 7.8 | 23875 | 46800 | 22925 | 1.96 |
| TO3 | 7 | 24.3 | - | - | - | 7.6 | 24125 | 45600 | 21475 | 1.89 |

Results: Seed priming with liquid Rhizobium (5%) gave higher germination, plant stand followed by higher seed yield

OFT-6

|  |  |  |
| --- | --- | --- |
| 1. | Title of On Farm Trial | **Assessment of integrated management of Tikka and Collar rot disease in Ground nut** |
| 2. | Problem diagnosed | Low yield due to incidence of tikka and collar rot diesase |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | **FP:** Application of Metalaxyl + Mancozeb @ 2ml/lit water  **TO1:** Seed treatment with Carboxin 37.5% + Thiram 37.5 % (Vitavax power) @ 2.5 gm/ kg seeds during sowing and need base alternative spraying of chlorothalonil 75 WP (Kavach) @ 1.5 gm/lt. and carbendazim 2 gm/lt at 15 days interval  **TO2:** Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application o*f T. viride @* 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride @* 4kg enriched in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of foliar diseases and 2nd spray at 15 days interval |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | TO1: TNAU annual report , 2015  TO2:OUAT Annual report 2016 |
| 5. | Production system and thematic area | Integrated Disease Management |
| 6. | Performance of the Technology with performance indicators | PDI% |
| 7. | Final recommendation for micro level situation | Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application o*f T. viride @* 4kg enriched in 50kg FYM/ha as basal application, then broadcasting of *T. viride @* 4kg enriched in 250kg FYM/ha at 40 DAS & 2 sprays of Tebuconazole @ 1ml/lit. starting from initiation of foliar diseases and 2nd spray at 15 days interval |
| 8. | Constraints identified and feedback for research | Lack of awareness among the farmers regarding the use of bio-fungicides and seed treatment in Groundnut crop |
| 9. | Process of farmers participation and their reaction | Farmers are curious about the use of bio-fungicides and were satisfied with the results |

***Thematic area:***

**Problem definition:** high incidence of Collar rot and tikka disease in Groundnut

**Technology assessed**: TO1- Seed treatment along with foliar application of systemic fungicides for management of the disease

TO2-Seed treatment along with soil application with fungal ant aginist *T. viridae* bio-agent and foliar application with systemic fungicides.

**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 | 21.4 | 4.18 | 46.3 | Collar rot : 76.6  Tikka : 79.3 | 20.2 | 61200/- | 101000/- | 39800/- | 1.65 |
| **TO1:** | 07 | 25.1 | 4.69 | 48.2 | Collar rot : 29.6  Tikka : 33.7 | 24.6 | 65100/- | 123000/- | 57900/- | 1.89 |
| **TO2:** | 07 | 26.5 | 4.92 | 49.1 | Collar rot : 25.3  Tikka : 28.1 | 25.9 | 69850/- | 141100/- | 71250/- | 2.02 |

**Results:** Seed treatment with Tebuconazole, soil application with *T. viride* and foliar application of systemic fungicides reduced disease incidence significantly.

**OFT-6**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of integrated management of Blast disease in Paddy** |
| 2. | Problem diagnosed | Chaffy grains due to blast infestation |
| 3. | Details of technologies selected for assessment/refinement | FP: Application of Tricyclazole 75WP @ 1g/ lit thrice at 10 to 15 days interval  TO1: Seed treatment with Carbendazim @2g/kg + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray  TO2: Seed treatment with *Pseudomonas flurosence* @ 10g/lit water for 30 min + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | TO1: Source : ANGRAU annual report 2018  TO2: Source: UAS Raichur annual report 2015 |
| 5. | Production system and thematic area | IDM |
| 6. | Performance of the Technology with performance indicators | EBT/ hill , Cost of operation (Rs/ha) , Cost of intervention. Yield (q/ha), B:C ratio |
| 7. | Final recommendation for micro level situation | Seed treatment with *Pseudomonas flurosence* @ 10g/lit water for 30 min + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray |
| 8. | Constraints identified and feedback for research | Non-availability of bio-funicides in the market and lack of awareness among the farmers about the use of bio-fungicides and new molecules of fungicides |
| 9. | Process of farmers participation and their reaction | Farmers are curious about the use of new generation bio-fungicides and were satisfied with the results. |

*Thematic area:*

**Problem definition:** high incidence of blast disease in paddy

**Technology assessed:** seed treatment and foliar application with new molecules of fungicides

**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** | 07 | 7.4 | 61 | 18.8 | 66.2 | 37.50 | 35400/- | 56250/- | 20850/- | 1.59 |
| **TO1** | 07 | 11.5 | 72 | 23.2 | 21.1 | 48.75 | 42150/- | 73125/- | 30975/- | 1.73 |
| **TO2** | 07 | 12.1 | 76 | 23.9 | 15.6 | 52.50 | 43320/- | 78750/- | 35430/- | 1.81 |

Results: Seed treatment with *Pseudomonas flurosence* @ 10g/lit water for 30 min + Spraying of Tricyclazole 75WP @0.06% + spraying of *Pseudomonas flurosence* @ 0.4g/ lit after 7 days of 1st spray was the best treatment with highest B:C of 1.81

**OFT-7**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of different Parasiticidal agents in controlling external parasites in grow-out carp culture system** |
| 2. | Problem diagnosed |  |
| 3. | Details of technologies selected for assessment/refinement | TO1: Pond application of Synthetic Pyrethroid like Deltamethrin (Delta guard) 2.8% @ 80 ml /acre-mt (4 times in weekly interval  TO2: Application of Ivermectin (paracure IV) @ 50 µg/kg feed through feed |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | TO1:  TO2: |
| 5. | Production system and thematic area |  |
| 6. | Performance of the Technology with performance indicators | % of infestation, % of recovery, Yield, water quality parameter (pH, plankton conc.DO) |
| 7. | Final recommendation for micro level situation |  |
| 8. | Constraints identified and feedback for research |  |
| 9. | Process of farmers participation and their reaction |  |

*Thematic area:*

**Problem definition:**

**Technology assessed:** Assessment of different Parasiticidal agents in controlling external parasites in grow-out carp culture 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** | 07 |  |  |  |  |  |  |  |  |  |
| **TO1** | 07 |  |  |  |  |  |  |  |  |  |
| **TO2** | 07 |  |  |  |  |  |  |  |  |  |

Results:

OFT-8

|  |  |  |
| --- | --- | --- |
| 1. | Title of On Farm Trial | **Assessment of crumple paddy straw for production of paddy straw mushroom** |
| 2. | Problem diagnosed | High cost of cultivation of paddy straw mushroom |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | Technology option-I (TO-I): mushroom bed preparation by soaking the crumple straw for 8 hours  Technology option-II (TO-II): mushroom bed preparation by soaking the crample straw for 5 hours |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | KVK, Keonjhar, OUAT, 2017 |
| 5 | Production system and thematic area | Women empowerment through income generation |
| 6 | Performance of the technology with performance indicators | Yield/bed, Pin head appearance (days) |
| 7. | Performance of the technology with performance indicators | Cultivation of paddy straw mushroom by use of crumple straw soaked for five hours is profitable. |
| 8. | Constraints identified and feedback for research | Storage of the crumple straw is major constraint. There is chance of growth of Harmful fungus if these are wet by rainfall |
| 9. | Process of farmers participation and their reaction | Actively participated through training |

*Thematic area: women empowerment for income generation*

Problem definition: high cost of cultivation of paddy straw mushroom

Technology assessed: cultivation of paddy straw mushroom by use of crumple straw

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (Kg/bed) | Cost of cultivation  (Rs./bed) | Gross return (Rs/bed) | Net return  (Rs./bed) | BC ratio |
| Pin head appearance (days) | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP | 7 | 6-8 |  |  |  | 0.75 | 60 | 105 | 45 | 1.75 |
| TOI | 7 | 6-8 |  |  |  | 0.7 | 45 | 48 | 48 | 2.1 |
| TOII | 7 | 6-8 |  |  |  | 0.725 | 45 | 56 | 56 | 2.2 |

Results: Mushroom bed preparation by soaking the crumple straw for 5 hours gave higher B:C ration of 2.2.

**OFT-9**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On Farm Trial | **Assessment of value-added products of Tomato for income generation** |
| 2. | Problem diagnosed | Low income of farm women due to distress sale of tomatoes |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | Preparation of tomato concentrate & Tomato powder for income generation |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | PHT Centre, TNAU,2015 |
| 5. | Production system and thematic area | Value addition |
| 6. | Performance of the Technology with performance indicators | TOI-yield of tomato concentrate/ 10kg tomato  TOII-yield of tomato powder/10kg tomato |
| 7. | Final recommendation for micro level situation | Tomato concentrate is more profitable than powder |
| 8. | Constraints identified and feedback for research | Drying tomatoes indirect sunlightis tedious and not hygienic  Drying tomatoes in solar dryer is costly |
| 9. | Process of farmers participation and their reaction | Farmers participated actively .value added products will be profitable with involvement of WSHGs, formation of producer group |

*Thematic area: value addition*

Problem definition: Low income of farm women due to distress sale of tomatoes

Technology assessed: TOI-Preparation of tomato concentrate

TOII-preparation of tomato powder

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield  (Kg/10kg) | Cost of cultivation  (Rs./kg) | Gross return (Rs/10kg) | Net return  (Rs./10kg) | BC ratio |
| No. of effective tillers/hill | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| TOI | 12 |  |  |  |  | 3.2 | 230 | 416 | 186 | 1.8 |
| TOII | 12 |  |  |  |  | 0.8 | 160 | 240 | 80 | 1.5 |

Results: Selling of Tomato concentrate gave higher net return of 416/- per 10kg tomato which is higher than the tomato powder but for conclusive study, we need to do this OFT for another year.

**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 |  |
|  | Tomato | Weed management | Soil solarization with transparent polyethylene film50 micron thickness laid close to the soil surface | 0.02 | 0.02 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Rice, maize | Crop diversification | Demonstration of Rice-Maize + Cowpea (2:2) cropping system | 0.4 | 0.4 | 2 | 0 | 3 | 0 | 5 | 0 | 10 | 0 | 10 |  |
|  | Rice | Varietal evaluation | Cultivation of BPH tolerant rice cultivar Hasanta with good yield potential of 5.2 to 5.5 t/ha having maturity duration of 145 days | 2 | 2 | 0 | 0 | 0 | 0 | 9 | 1 | 9 | 1 | 10 |  |
|  | Rice | Weed management | Post emergence application of penoxsulam 24 SC @ 25g ai/ha at 12 DAT followed by hand weeding at 30 DAS | 4 | 4 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Banana | Integrated nutrient management | STBFR + Blending 15g (7.5g Urea & 7.5g of sulphate of potash) dissolved in 100ml water in 500g of fresh cow dung & applying the slurry to the de-navelled stalk end soon after fruit set | 0.2 | 0.2 | 2 | 0 | 0 | 0 | 8 | 0 | 10 | 0 | 10 |  |
|  | Pointed gourd | Integrated nutrient management | STBFR + Consortia of Azotobacter, Azospirillum and PSM each @ 4.0 kg/ha inoculated to 300 kg of FYM, mixed with 15 kg of lime, incubated at 30% moisture for a week & applied in rhizosphere at the time of planting root suckers | 1 | 1 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 10 |  |
|  | Brinjal | Integrated nutrient management | Appl i c a t i on of 75% of STBFR Fe r t i l i ze r N + 100% fertilizer P & K + FYM @ 2t/ha + Bio-inoculation of Azotobacter@4kg/ha + Azospirilum@ 4 kg/ha with 200kg prelimed FYM (Lime 10kg) incubated for 7 days at 30% moisture & applied in rhizosphere at the time of planting | 1 | 1 | 1 | 0 | 0 | 0 | 8 | 1 | 9 | 1 | 10 |  |
|  | Onion | IDM | Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection | 01 ha | 01 ha | 1 | 0 | 0 | 0 | 9 | 0 | 10 | 0 | 10 |  |
|  | Brinjal | IPM | Neem Cake @ 2.5 q /ha + Pheromone Trap @5 nos. per Ha + clipping of twigs + Flubendiamide 48 SC @ 200ml/ha( at 40 DAP) followed by cartap hydrochloride 50% SP @ 500 gm/ha(Alternate spray at 15 days interval) | 02 | 02 | 3 | 0 | 0 | 0 | 7 | 0 | 10 | 0 | 10 |  |

Details of farming situation

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil  (Kg/ha) | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
| N | P2O5 | K2O |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Tomato | Rabi, 2020 | Vegetable- veg nursery (Irrigated) | Sandy loam | 352 | 18.2 | 341 | Cucumber | 03.05.2021 | 12.08.2021 | 603 | 13 |
| Rice, maize | Rabi, 2020 | Rice- Maize (Irrigated) | Sandy loam | 275 | 17.8 | 333 | Rice | 08.02.2021 | 05.05.2021 | 398 | 07 |
| Rice | Kharif, 2021 | Rice-rice (Irrigated) | Clay loam | 288 | 17.4 | 312 | Rice | 28.06.2021 | 13.11.2021 | 1021 | 26 |
| Rice | Kharif, 2021 | Rice-rice (Irrigated) | Clay loam | 295 | 16.4 | 357 | Rice | 07.07.2021 | 27.12.2021 | 975 | 24 |
| Banana | Rabi, 2020-21 | Banana year round (Irrigated) | Loam | 324 | 18.3 | 356 | Banana | 07.01.2020 | 15.02.2021 | 1326 | 32 |
| Pointed gourd | Rabi, 2020 | Pointed gourd year round (Irrigated) | Clay loam | 305 | 16.8 | 330 | Bitter gourd | 02.10.2020 | 4.02.2021 | 451 | 08 |
| Brinjal | Rabi, 2020 | Rice- brinjal (Irrigated) | Sandy loam | 277 | 16.5 | 328 | Rice | 14.11.2020 | 28.03.2021 | 423 | 11 |
| Onion | Rabi 2020-21 | Irrigated medium land, | Sandy loam | 482 | 20.6 | 164 | Tomato | 06.11.20 | 21.02.2021 | 48 | 11 |
| Brinjal | Kharif 2021-22 | Irrigated medium land, | Alluvial, Sandy loam | 472 | 20.1 | 159 | Ridge gourd | 12.08.2021 | 28.01.2022 | 1125 | 39 |

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 |
| Sesamum | Varietal Evaluation | Demonstration of Sesamum var. Smarak | 10 | 02 | 7.9 | 6.2 | 27.4 | 19000 | 39500 | 20500 | 2.07 | 15200 | 24800 | 9600 | 1.63 |
| Total |  |  | 10 | 02 |  |  |  |  |  |  |  |  |  |  |  |

\* 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 |
| Black gram | INM | Basal application of 75%STBFR (N-P2O5-K2O@ 15:30:30kg/ha + Foliar application of Water Soluble Fertilizer (NPK-18:18:18) @ 2% at 25 and 40 DAS | 10 | 01 | 8.7 | 6.4 | 35.9 | 25600 | 52200 | 26600 | 2.03 | 23600 | 38400 | 14800 | 1.62 |
|  | Total |  | 10 | 01 |  |  |  |  |  |  |  |  |  |  |  |

\* 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 |
| Tomato | Weed management | Soil solarization with transparent polyethylene film50 micron thickness laid close to the soil surface | 10 | 0.02 | WDM (g/m2) 13.7 | WDM (g/m2) 92.8 | WCE (%) 85.5 | Weed density (Nos./m2) 96 | Weed density (Nos./m2) 213 |  |  |  |  |  |  |  |  |
| Rice, maize | Crop diversification | Demonstration of Rice-Maize + Cowpea (2:2) cropping system | 10 | 0.4 | Maize EY 12.53 | Maize EY 8.2 | 34.5 | Extra yield from intercop (1.64t/ha) | No intercrops | 67200 | 150400 | 83200 | 2.24 | 45600 | 98400 | 52800 | 2.15 |
| Rice | Varietal evaluation | Cultivation of BPH tolerant rice cultivar Hasanta with good yield potential of 5.2 to 5.5 t/ha having maturity duration of 145 days | 10 | 2 | 48.8 | 40.6 | 16.8 | No. of BPH & WBPH/ hill 7 | No. of BPH & WBPH/ hill 23 | 48000 | 94672 | 46672 | 1.97 | 48000 | 78764 | 30764 | 1.64 |
| Rice | Weed management | Post emergence application of penoxsulam 24 SC @ 25g ai/ha at 12 DAT followed by hand weeding at 30 DAS | 10 | 4 | 51.3 | 42.9 | 16.4 | Weed dry matter (g/m2) 27 | Weed dry matter (g/m2) 98 | 48000 | 99522 | 51522 | 2.07 | 49500 | 83226 | 33726 | 1.68 |
| Banana | Integrated nutrient management | STBFR + Blending 15g (7.5g Urea & 7.5g of sulphate of potash) dissolved in 100ml water in 500g of fresh cow dung & applying the slurry to the de-navelled stalk end soon after fruit set | 10 | 0.2 | 390.9 | 312.8 | 24.97 | Bunch weight (kg) 13.0 | Bunch weight (kg) 10.4 | 156000 | 625440 | 469440 | 4.01 | 150000 | 500430 | 350480 | 3.34 |
| Pointed gourd | Integrated nutrient management | STBFR + Consortia of Azotobacter, Azospirillum and PSM each @ 4.0 kg/ha inoculated to 300 kg of FYM, mixed with 15 kg of lime, incubated at 30% moisture for a week & applied in rhizosphere at the time of planting root suckers | 10 | 1 | 206.8 | 178.2 | 16.05 | No. of fruits/plant 61 | No. of fruits/plant 54 | 157750 | 413600 | 255850 | 2.62 | 156250 | 356400 | 200150 | 2.28 |
| Brinjal | Integrated nutrient management | Appl i c a t i on of 75% of STBFR Fe r t i l i ze r N + 100% fertilizer P & K + FYM @ 2t/ha + Bio-inoculation of Azotobacter@4kg/ha + Azospirilum@ 4 kg/ha with 200kg prelimed FYM (Lime 10kg) incubated for 7 days at 30% moisture & applied in rhizosphere at the time of planting | 10 | 1 | 428.6 | 382.5 | 12.05 | No. of fruits/plant 25 | No. of fruits/plant 23 | 127000 | 428600 | 301600 | 3.37 | 125000 | 382500 | 257500 | 3.06 |
| Onion | IDM | Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection | 10 | 01 | 325 | 262 | 24.05 | 43.42 | 78.91 | 232140 | 487500 | 183390 | 2.10 | 220780 | 393000 | 172220 | 1.78 |
| Brinjal | IPM | Neem Cake @ 2.5 q /ha + Pheromone Trap @5 nos. per Ha + clipping of twigs + Flubendiamide 48 SC @ 200ml/ha( at 40 DAP) followed by cartap hydrochloride 50% SP @ 500 gm/ha(Alternate spray at 15 days | 10 | 02 | 262 | 201 | 30.34 | 6.4 | 21.7 | 203875 | 393450 | 189475 | 1.92 | 198460 | 301660 | 103180 | 1.53 |
|  | Total | |  |  |  | | | | | | | | | | | | |

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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rabbitry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigerry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Duckery |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

Fisheries

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Thematic area | | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) | | | | \*Economics of check  (Rs.) | | | |
| Demons  ration | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Common carps |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mussels |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental fishes |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | | Total | |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Other enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Category | Name of the technology demonstrated | No. of Farmer | No. of units | Major parameters | | % change in major parameter | Other parameter | | \*Economics of demonstration (Rs.) or Rs./unit | | | | \*Economics of check  (Rs.) or Rs./unit | | | |
| Demons  ration | Check | Demons  ration | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Oyster mushroom | Enterprise development |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| paddy straw mushroom | Cultivation of paddy straw mushroom by use of crumple straw | 10 | 100 | Yield/bed-.75kg | Yield/ bed 0.8kg |  | Days of  Pin head appearance-8 to 10 days | Days of  Pin head appearance-8 to 10 days | 50 | 105 | 55 | 2.1 | 65 | 112 | 47 | 1.7 |
| Paneer preparation | Preparation of paneer by use of paneer pressing machine | 10 | 10 | Paneer prepared from 1 lit milk-180 gram |  |  | LR Value of milk-  26.2  Shelf life-2days | LR Value of milk-26.2shelf life-8 hours | 35 | 45 | 10 | 1.28 | 26 | 29 | 03 | 1.1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | |  |  |  | | | | | | | | | | | | |

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

\*\* BCR= GROSS RETURN/GROSS COST

Women empowerment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Category | Name of technology | No. of demonstrations | Observations | | Remarks |
| Demonstration | Check |
| Farm Women |  |  |  |  |  |
| Pregnant women |  |  |  |  |  |
| Adolescent Girl |  |  |  |  |  |
| Other women | Nutritional gardening for nutritional security | 10 | Consumption of vegetables/day/member  Roots and tuber-50gram  Other vegetable-200gram  GLV-75gram | Consumption of vegetables/day/member  Roots and tuber-75gram  Other vegetable-100 gram  GLV-25gram | Calculation of vegetables/ day/ member has been done on the basis of dietary recall method  Amount of vegetables taken in a week for one family was taken into consideration |
| 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 | BPH tolerant rice cultivar Hasanta drastically reduces the BPH & WBPH attack along with higher net profit |
| **2** | Rice | Post emergence application of Penoxsulam at 12 DAT decreases the weed density and dry matter along with reduction of 2500 rupees on manual hand weeding |
| **3** | Maize | Replacement of rabi rice crop by maize + cowpea intercropping not only increase the net profit, but also it improves the soil health |
| **4** | Groundnut | Pre-emergence application of herbicide in groundnut effectively control the weed |
| **5** | Pointed gourd | Bio-inoculation of Azotobacter, Azospirillum and PSM in FYM along with STBFR increases the fruit yield and higher return over farmers existing practice. But availability of the consortia in the local market is a problem. |
| **6** | Banana | Dipping of slurry of Urea & sulphate of potash dissolved in water, fresh cow dung to the de-navelled stalk end soon after fruit set helps in uniform fruit size along with longer finger |
| **7** | Brinjal | Bio-inoculation of Azotobacter and Azospirilum with prelimed FYM increased the no. of fruits per plant along with higher yield as compare to the farmers practice. But availability of the consortia in the local market is a problem. |
| **8** | Onion | Use of seed treatment along with foliar application of new molecules of fungicides resulted in better suppression of purple blotch disease. |
| **9** | Brinjal | Installation of pheromone traps and use of new generation insecticides suppressed BSFB population significantly |
| **10** | Black gram | Use of Foliar application of WSF NPK 18:18:18 improves the crop growth, flowering & eventual seed yield |

Extension and Training activities under FLD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Activity** | **Date** | **No. of activities organized** | **Number of participants** | **Remarks** |
| 1. | Field days | 12.11.2021 | 1 | 60 | Demonstration of BPH tolerant rice cultivar Hasanta |
| 2. | Farmers Training | 20.07.2021 | 1 | 30 | Training on IWM in transplanted rice |
|  |  | 27.10.2021 | 1 | 30 | Training on Crop diversification in rice-rice cropping system |
|  |  | 05.11.2021 | 1 | 30 | Training on IWM in groundnut |
|  |  | 13.01.2021 | 1 | 30 | Training on INM in pointed gourd |
|  |  | 18.02.2021 | 1 | 30 | Training on INM in Banana |
|  |  | 23.03.2021 | 1 | 30 | Training on INM in brinjal |
|  |  | 04.03. 2021 | 01 | 30 | IPM in Brinjal |
|  |  | 16.09. 2021 | 01 | 30 | IPM in Brinjal |
|  |  | 16.09.2021 | 01 | 30 | Seed production in Mustard |
|  |  | 05.11. 2021 | 01 | 30 | IPM in Onion |
| 3. | Media coverage |  |  |  |  |
| 4. | Training for extension functionaries | 18.03.2021 | 1 | 20 | Training on recent advances in fertilizer management in field crops |
|  |  | 19.03.2021 | 1 | 20 | Training on Soil health management |

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2021 and Rabi 2021-2022:**

**Groundnut, Rabi 2021-22**

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 |
| 1 | Groundnut | Kadiri 6 |  | 19.44 | 17.87 | 30 | 1. Demonstration of drought tolerant variety Dharani 2. Biofertilizer inoculation 3. Integrated weed management (application of Imazethapyr followed by hand weeding) 4. Integrated pest and disease management | 40 | 10 |  |  | Continuing |  |  |  |

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 |
|  | * Demonstration of drought tolerant variety Dharani * Biofertilizer inoculation * Integrated weed management (application of Imazethapyr followed by hand weeding) * Integrated pest and disease management |  |  |  |  |  |  |  |  |

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) |
| Crop at 10 DAS stage | | | | | | | | |

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 |
|  | * Demonstration of drought tolerant variety Dharani * Biofertilizer inoculation * Integrated weed management (application of Imazethapyr followed by hand weeding) * Integrated pest and disease management | Best suited for pre-summer | Application of Rhizobium & PSB culture | Yes | No | Yes | Critical input should be available in local market |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|  |  |  |  |
|  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Extension Activities organized | Date and place of activity | Number of farmer attended |
| 1 | Group meeting | 18.12.2021, Jamunasul | 19 |
| 2 | Group meeting | 29.01.2022, Jamunasul | 24 |

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

\*\*\*

* 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 |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil & water conservation | 01 | 17 | 13 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 17 | 13 | 30 |
| Integrated nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total | **01** | **17** | **13** | **30** | **0** | **0** | | **0** | **0** | **0** | **0** | **17** | **13** | **30** |
| **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 | 01 | 29 | 0 | 29 | 1 | 0 | | 1 | 0 | 0 | 0 | 30 | 0 | 30 |
| Soil & water testing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **01** | **29** | **0** | **29** | **1** | **0** | | **1** | **0** | **0** | **0** | **30** | **0** | **30** |
| **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 | 1 | 00 | 30 | 30 | 00 | 00 | | 00 | 00 | 00 | 00 | 00 | 30 | 30 |
| Women empowerment |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Location specific drudgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **1** | **00** | **30** | **30** | **00** | **00** | | **00** | **00** | **00** | **00** | **00** | **30** | **30** |
| **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 |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Bio0control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| 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** |  |  |  |  |  | |  |  |  |  |  |  |  |  |

**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 | 02 | 39 | 0 | 40 | 1 | | 0 | 1 | 0 | 0 | 0 | 40 | 0 | 40 |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs | 02 | 23 | 0 | 23 | 7 | | 0 | 7 | 0 | 0 | 0 | 40 | 0 | 40 |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom Production | 1 | 10 | 09 | 19 | 01 | | 00 | 01 | 00 | 00 | 00 | 11 | 09 | 20 |
| 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 | 01 | 14 | 04 | 18 | 02 | | 00 | 02 | 00 | 00 | 00 | 16 | 04 | 20 |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **6** | **86** | **13** | **100** | **11** | | **0** | **11** | **0** | **0** | **0** | **107** | **13** | **120** |

**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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 01 | 17 | 1 | 18 | 1 | | 0 | 1 | 1 | 0 | 1 | 19 | 1 | 20 |
| Integrated Nutrient management | 02 | 33 | 4 | 37 | 1 | | 1 | 2 | 1 | 0 | 1 | 35 | 5 | 40 |
| 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 | 1 | 0 | 20 | 20 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| Other |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **4** | **50** | **25** | **75** | **2** | | **1** | **3** | **2** | **0** | **2** | **54** | **26** | **80** |

**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 | 86 | 0 | 86 | 29 | 1 | | 30 | 4 | 0 | 4 | 119 | 1 | 120 |
| Resource Conservation Technologies | 02 | 11 | 4 | 15 | 26 | 19 | | 45 | 0 | 0 | 0 | 37 | 23 | 60 |
| Cropping Systems | 01 | 21 | 0 | 21 | 3 | 0 | | 3 | 6 | 0 | 6 | 30 | 0 | 30 |
| Crop Diversification | 01 | 20 | 10 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 20 | 10 | 30 |
| Integrated Farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation/irrigation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production | 09 | 194 | 23 | 217 | 37 | 3 | | 40 | 4 | 9 | 13 | 235 | 35 | 270 |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management | 02 | 42 | 18 | 60 | 0 | 0 | | 0 | 0 | 0 | 0 | 42 | 18 | 60 |
| Soil & water conservation | 01 | 17 | 13 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 17 | 13 | 30 |
| Integrated nutrient Management | 01 | 17 | 11 | 28 | 2 | 0 | | 2 | 0 | 0 | 0 | 19 | 11 | 30 |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others | 01 | 25 | 2 | 27 | 3 | 0 | | 3 | 0 | 0 | 0 | 28 | 2 | 30 |
| Total | **22** | **433** | **81** | **514** | **100** | **23** | | **123** | **14** | **9** | **23** | **547** | **113** | **660** |
| **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 | 06 | 164 | 8 | 172 | 7 | 0 | | 7 | 1 | 0 | 1 | 172 | 8 | 180 |
| Production and use of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of Problematic soils | 01 | 24 | 0 | 24 | 6 | 0 | | 6 | 0 | 0 | 0 | 30 | 0 | 30 |
| Micro nutrient deficiency in crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Balance Use of fertilizer |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil & water testing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **07** | **188** | **8** | **196** | **13** | **0** | | **13** | **1** | **0** | **1** | **202** | **8** | **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 | 01 | 00 | 28 | 28 | 00 | 02 | | 02 | 00 | 00 | 00 | 00 | 30 | 30 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing | 02 | 00 | 46 | 46 | 00 | 12 | | 12 | 00 | 02 | 02 | 00 | 60 | 60 |
| Processing & cooking |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition | 02 | 00 | 56 | 56 | 00 | 04 | | 04 | 00 | 00 | 00 | 00 | 60 | 60 |
| Women empowerment | 05 | 00 | 128 | 128 | 00 | 22 | | 22 | 00 | 00 | 00 | 00 | 150 | 150 |
| Location specific drudgery reduction technologies | 01 | 00 | 30 | 30 | 00 | 00 | | 00 | 00 | 00 | 00 | 00 | 30 | 30 |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care | 03 | 00 | 64 | 64 | 00 | 10 | | 10 | 00 | 15 | 15 | 00 | 120 | 120 |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **14** | **0** | **352** | **352** | **0** | **50** | | **50** | **0** | **17** | **17** | **0** | **450** | **450** |
| **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 | 11 | 207 | 13 | 220 | 87 | 23 | | 110 | 0 | 0 | 0 | 294 | 36 | 330 |
| Integrated Disease Management | 03 | 55 | 29 | 84 | 6 | 0 | | 6 | 0 | 0 | 0 | 61 | 29 | 90 |
| Bio0control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **14** | **262** | **42** | **304** | **93** | **23** | | **116** | **0** | **0** | **0** | **355** | **65** | **420** |
| **VIII. Fisheries** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing | 01 | 13 | 09 | 22 | 04 | 04 | | 08 | 00 | 00 | 00 | 17 | 13 | 30 |
| Composite fish culture | 2 | 20 | 40 | 60 | 00 | | 00 | 00 | 00 | 00 | 00 | 20 | 40 | 60 |
| Hatchery management and culture of freshwater prawn | 01 | 12 | 05 | 17 | 08 | | 04 | 12 | 01 | 00 | 01 | 21 | 09 | 30 |
| 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** | **4** | **45** | **54** | **99** | **12** | | **8** | **20** | **1** | **0** | **1** | **58** | **62** | **120** |
| **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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| 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** |  |  |  |  |  | |  |  |  |  |  |  |  |  |

**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 | 86 | 0 | 86 | 29 | 1 | | 30 | 4 | 0 | 4 | 119 | 1 | 120 |
| Resource Conservation Technologies | 02 | 11 | 4 | 15 | 26 | 19 | | 45 | 0 | 0 | 0 | 37 | 23 | 60 |
| Cropping Systems | 01 | 21 | 0 | 21 | 3 | 0 | | 3 | 6 | 0 | 6 | 30 | 0 | 30 |
| Crop Diversification | 01 | 20 | 10 | 30 | 0 | 0 | | 0 | 0 | 0 | 0 | 20 | 10 | 30 |
| Integrated Farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation/irrigation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Seed production | 09 | 194 | 23 | 217 | 37 | 3 | | 40 | 4 | 9 | 13 | 235 | 35 | 270 |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Crop Management | 02 | 42 | 18 | 60 | 0 | 0 | | 0 | 0 | 0 | 0 | 42 | 18 | 60 |
| Soil & water conservation | 02 | 27 | 24 | 51 | 1 | 8 | | 9 | 0 | 0 | 0 | 28 | 32 | 60 |
| Integrated nutrient Management | 01 | 17 | 11 | 28 | 2 | 0 | | 2 | 0 | 0 | 0 | 19 | 11 | 30 |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others | 01 | 25 | 2 | 27 | 3 | 0 | | 3 | 0 | 0 | 0 | 28 | 2 | 30 |
| Total | **23** | **443** | **92** | **535** | **101** | **31** | | **132** | **14** | **9** | **23** | **558** | **132** | **690** |
| **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 | 06 | 164 | 8 | 172 | 7 | 0 | | 7 | 1 | 0 | 1 | 172 | 8 | 180 |
| Production and use of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of Problematic soils | 01 | 24 | 0 | 24 | 6 | 0 | | 6 | 0 | 0 | 0 | 30 | 0 | 30 |
| Micro nutrient deficiency in crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Balance Use of fertilizer | 01 | 29 | 0 | 29 | 1 | 0 | | 1 | 0 | 0 | 0 | 30 | 0 | 30 |
| Soil & water testing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **08** | **217** | **8** | **225** | **14** | **0** | | **14** | **1** | **0** | **1** | **232** | **8** | **240** |
| **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 | 01 | 00 | 28 | 28 | 00 | 02 | | 02 | 00 | 00 | 00 | 00 | 30 | 30 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing | 02 | 00 | 45 | 45 | 00 | 13 | | 13 | 00 | 02 | 02 | 00 | 60 | 60 |
| Processing & cooking |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition | 03 | 00 | 86 | 86 | 00 | 04 | | 04 | 00 | 00 | 00 | 00 | 90 | 90 |
| Women empowerment | 05 | 00 | 128 | 128 | 00 | 22 | | 22 | 00 | 00 | 00 | 00 | 150 | 150 |
| Location specific drudgery reduction technologies | 01 | 00 | 30 | 30 | 00 | 00 | | 00 | 00 | 00 | 00 | 00 | 30 | 30 |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care | 03 | 00 | 64 | 64 | 00 | 09 | | 09 | 00 | 17 | 17 | 00 | 90 | 90 |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **15** | **0** | **381** | **381** | **0** | **50** | | **50** | **0** | **19** | **19** | **0** | **450** | **450** |
| **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 | 11 | 207 | 13 | 220 | 87 | 23 | | 110 | 0 | 0 | 0 | 294 | 36 | 330 |
| Integrated Disease Management | 03 | 55 | 29 | 84 | 6 | 0 | | 6 | 0 | 0 | 0 | 61 | 29 | 90 |
| Bio0control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **14** | **262** | **42** | **304** | **93** | **23** | | **116** | **0** | **0** | **0** | **355** | **65** | **420** |
| **VIII. Fisheries** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing | 01 | 13 | 09 | 22 | 04 | 04 | | 08 | 00 | 00 | 00 | 17 | 13 | 30 |
| Composite fish culture | 2 | 20 | 40 | 60 | 00 | | 00 | 00 | 00 | 00 | 00 | 20 | 40 | 60 |
| Hatchery management and culture of freshwater prawn | 01 | 12 | 05 | 17 | 08 | | 04 | 12 | 01 | 00 | 01 | 21 | 09 | 30 |
| 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** | **4** | **45** | **54** | **99** | **12** | | **08** | **20** | **1** | **0** | **1** | **58** | **62** | **120** |
| **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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| 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** | **64** | **967** | **577** | **1544** | **220** | | **112** | **332** | **16** | **28** | **44** | **1203** | **717** | **1920** |

**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 | 02 | 39 | 0 | 40 | 1 | | 0 | 1 | 0 | 0 | 0 | 40 | 0 | 40 |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs | 02 | 23 | 0 | 23 | 7 | | 0 | 7 | 0 | 0 | 0 | 40 | 0 | 40 |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermiculture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Mushroom Production | 1 | 10 | 09 | 19 | 01 | | 00 | 01 | 00 | 00 | 00 | 11 | 09 | 20 |
| 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 | 01 | 14 | 04 | 18 | 02 | | 00 | 02 | 00 | 00 | 00 | 16 | 04 | 20 |
| Others |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **6** | **86** | **13** | **100** | **11** | | **0** | **11** | **0** | **0** | **0** | **107** | **13** | **120** |

**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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 01 | 17 | 1 | 18 | 1 | | 0 | 1 | 1 | 0 | 1 | 19 | 1 | 20 |
| Integrated Nutrient management | 02 | 33 | 4 | 37 | 1 | | 1 | 2 | 1 | 0 | 1 | 35 | 5 | 40 |
| 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 | 1 | 0 | 20 | 20 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| Other |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| **Total** | **4** | **50** | **25** | **75** | **2** | | **1** | **3** | **2** | **0** | **2** | **54** | **26** | **80** |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discipline | Clientele | Title of the training programme | Duration in days | Venue (Off / On Campus) | Number of participants | | | Number of SC/ST | | |
| Male | Female | Total | Male | Female | Total |
| Agronomy | FW | Integrated weed management in groundnut | 01 | Off | 30 | 0 | 30 | 04 | 0 | 04 |
| Agronomy | FW | Integrated crop management in pulses | 01 | Off | 12 | 18 | 30 | 0 | 0 | 0 |
| Agronomy | FW | Management of waterlogged soils | 01 | On | 17 | 13 | 30 | 0 | 0 | 0 |
| Agronomy | FW | Integrated weed management in transplanted rice | 01 | Off | 29 | 01 | 30 | 02 | 0 | 02 |
| Agronomy | FW | Contingent crop planning | 01 | Off | 24 | 06 | 30 | 21 | 06 | 27 |
| Agronomy | RY | Organic farming | 03 | On | 20 | 0 | 20 | 0 | 0 | 0 |
| Agronomy | FW | Integrated weed management in transplanted rice | 01 | Off | 30 | 0 | 30 | 18 | 0 | 18 |
| Agronomy | FW | Contingent crop planning | 01 | Off | 13 | 17 | 30 | 05 | 13 | 18 |
| Agronomy | FW | Management of waterlogged soils | 01 | Off | 11 | 19 | 30 | 01 | 08 | 09 |
| Agronomy | FW | Biofortified varieties of different crops | 01 | Off | 28 | 02 | 30 | 03 | 0 | 03 |
| Agronomy | RY | Integrated Farming System | 03 | On | 20 | 0 | 20 | 01 | 0 | 01 |
| Agronomy | FW | Crop diversification in rice-rice cropping system | 01 | Off | 20 | 10 | 30 | 0 | 0 | 0 |
| Agronomy | FW | Integrated weed management in groundnut | 01 | Off | 30 | 0 | 30 | 10 | 0 | 10 |
| Agronomy | FW | Cropping intensification in rice fallow area | 01 | Off | 30 | 0 | 30 | 03 | 06 | 09 |
| Agronomy | FW | Production technologies of oilseed crops | 01 | Off | 30 | 0 | 30 | 0 | 0 | 0 |
| Soil Science | FW | INM in cole crops | 01 | Off | 30 | 0 | 30 | 0 | 0 | 0 |
| Soil Science | FW | INM in pointed gourd | 01 | Off | 30 | 0 | 30 | 0 | 0 | 0 |
| Soil Science | FW | INM in pulses | 01 | Off | 30 | 0 | 30 | 0 | 0 | 0 |
| Soil Science | FW | INM in banana | 01 | Off | 27 | 3 | 30 | 1 | 0 | 1 |
| Soil Science | FW | Importance of soil testing and balanced fertilizer application in crops | 01 | On | 30 | 0 | 30 | 1 | 0 | 1 |
| Soil Science | FW | Management of acid soils | 01 | Off | 30 | 0 | 30 | 6 | 0 | 6 |
| Soil Science | IS | Recent advances in fertilizer management in field crops | 01 | On | 17 | 3 | 20 | 1 | 1 | 2 |
| Soil Science | IS | Soil health management | 01 | On | 18 | 2 | 20 | 1 | 0 | 1 |
| Soil Science | FW | INM in brinjal | 01 | Off | 25 | 5 | 30 | 7 | 0 | 7 |
| Soil Science | FW | INM in betelvine | 01 | Off | 30 | 0 | 30 | 0 | 0 | 0 |
| Sees Sc. | FW | Seed production in pulses | 01 | Off | 22 | 8 | 30 | 0 | 0 | 0 |
| Sees Sc. | FW | Seed production in oilseeds | 01 | Off | 30 | 0 | 30 | 10 | 0 | 10 |
| Sees Sc. | FW | QPM production in Tuber crop | 01 | Off | 30 | 0 | 30 | 1 | 0 | 1 |
| Sees Sc. | FW | Seed production in Paddy | 01 | Off | 27 | 3 | 30 | 7 | 1 | 8 |
| Sees Sc. | FW | Seed production in Mustard | 01 | Off | 26 | 4 | 30 | 7 | 2 | 9 |
| Sees Sc. | FW | Hybrid Seed production in Paddy | 01 | Off | 30 | 0 | 30 | 6 | 0 | 6 |
| Sees Sc. | FW | Hybrid Seed production in Paddy | 01 | Off | 22 | 8 | 30 | 0 | 0 | 0 |
| Sees Sc. | FW | Seed production in Groundnut | 01 | Off | 22 | 8 | 30 | 8 | 0 | 8 |
| Sees Sc. | FW | INM in Groundnut | 01 | Off | 19 | 11 | 30 | 2 | 0 | 2 |
| Sees Sc. | FW | Seed production in pulses | 01 | Off | 18 | 12 | 30 | 2 | 9 | 11 |
| PP | F/W | IDM in cole crops | 01 | OFC | 20 | 10 | 30 | 1 | 0 | 1 |
| PP | F/W | IPM in greengram and blackgram | 01 | OFC | 29 | 01 | 30 | 3 | 0 | 3 |
| PP | F/W | IPM in ground nut | 01 | OFC | 30 | 0 | 30 | 0 | 0 | 0 |
| PP | F/W | IPM in brinjal | 01 | OFC | 27 | 3 | 30 | 3 | 0 | 3 |
| PP | F/W | IPM in summer vegetables | 01 | OFC | 24 | 6 | 30 | 22 | 6 | 28 |
| PP | F/W | Wilt problem in tomato and its management | 01 | OFC | 23 | 7 | 30 | 5 | 0 | 5 |
| PP | F/W | Recent advances in IDM in paddy | 01 | OFC | 18 | 12 | 30 | 0 | 0 | 0 |
| PP | F/W | Integrated management of BPH/WBPH in paddy | 01 | OFC | 27 | 3 | 30 | 8 | 0 | 8 |
| PP | F/W | Management of mites in vegetable cultivation | 01 | OFC | 24 | 6 | 30 | 1 | 0 | 30 |
| PP | IS | Recent advances in IPM in paddy | 01 | ONC | 19 | 1 | 20 | 2 | 0 | 2 |
| PP | F/W | Integrated management of brinjal fruit and shoot borer | 01 | OFC | 30 | 0 | 30 | 3 | 0 | 3 |
| PP | F/W | IPM in onion | 01 | OFC | 30 | 0 | 30 | 2 | 0 | 2 |
| PP | RY | Organic methods of pest management | 03 | ONC | 20 | 0 | 20 | 3 | 0 | 3 |
| PP | F/W | IPM in ground nut | 01 | OFC | 30 | 0 | 30 | 2 | 0 | 2 |
| PP | RY | Preparation of bio-pesticides from botanicals and organic matter | 03 | ONC | 20 | 0 | 20 | 4 | 0 | 4 |
| Home Sc | F/W | Guidelines to enhance nutrients retention during food preparation | 01 | Off | 0 | 30 | 30 | 0 | 1 | 1 |
| Home Sc | F/W | Mushroom cultivation | 01 | Off | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc | F/W | Preparation of value added products from oyster mushroom | 01 | On | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc | F/W | Nutritional practices for good health | 01 | Off | 0 | 30 | 30 | 0 | 8 | 8 |
| Home Sc | F/W | Use of women friendly implements for drudgery reduction | 01 | Off | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc | F/W | Cultivation of paddy straw mushroom from crumple straw | 01 | Off | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc | F/W | Nutritional care during COVID 19 | 01 | Off | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc | F/W | Cultivation of paddy straw mushroom by use of crumple straw | 01 | Off | 0 | 30 | 30 | 0 | 12 | 12 |
| Home Sc | F/W | Preparation of value added products from milk | 01 | Off | 0 | 30 | 30 | 0 | 0 | 0 |
| Home Sc | Rural youth | Mushroom cultivation | 04 | On | 11 | 9 | 20 | 1 | 0 | 1 |
| Home Sc | F/W | Pre-cooking methods for Nutrients retention | 01 | Off | 0 | 30 | 30 | 0 | 14 | 14 |
| Home Sc | F/W | Nutritional gardening for nutritional security | 01 | Off | 0 | 30 | 30 | 0 | 2 | 2 |
| Home Sc | F/W | Rearing kadaknath poultry bird in backyard for income generation | 01 | Off | 00 | 30 | 30 | 00 | 00 | 0 |
| Home Sc | INS | Importance, planning and lay out of nutritional garden | 02 | On | 00 | 20 | 20 | 00 | 00 | 0 |
| Home Sc | F/W | Preparation of value added products from oyster mushroom | 01 | Off | 00 | 30 | 30 | 00 | 00 | 04 |
| Home Sc | F/W | Cultivation of oyster mushroom | 01 | Off | 00 | 30 | 30 | 00 | 10 | 10 |
| Home Sc | F/W | Nutritional care for school going children | 01 | Off | 00 | 30 | 30 | 00 | 15 | 15 |
| Fisheries | F/W | Pisciculture in community pond | 01 | Off | 08 | 22 | 30 | 00 | 00 | 00 |
| Fisheries | F/W | Yearling production | 01 | Off | 17 | 13 | 30 | 04 | 04 | 08 |
| Fisheries | F/W | Poly culture of freshwater prawn | 01 | Off | 21 | 09 | 30 | 09 | 04 | 13 |
| Fisheries | F/W | Feed management in fish pond | 01 | Off | 12 | 18 | 30 | 00 | 00 | 00 |
| Fisheries | Rural youth | Fish fry, fingerlings and yearlings production | 03 | On | 16 | 04 | 20 | 02 | 00 | 02 |

## 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 |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

\*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 bioagent, biopesticide, |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| biofertilizers etc. |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Repair and maintenance of farm machinery &implements |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Nursery, grafting etc. |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Tailoring, stitching, embroidery, dying etc. |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Agril. Para-workers, para0vet training |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Capacity building and group dynamics |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Grand Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |

**I) Sponsored Training Programmes**

a) Details of Sponsored Training Programme

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.No | Title | Thematic area | Month | Duration (days) | Client  PF/RY/EF | No. of courses | No. of participants | Sponsoring Agency |
|  | Energy Conservation | Petroleum Conservation | September, 2021 | 03 | PF | 09 | 90 | PCRA, BBSR |
|  | Energy Conservation | Petroleum Conservation | October, 2021 | 01 | PF | 03 | 30 | PCRA, BBSR |
|  | Agro-techniques of paddy cultivation | Increasing production and productivity of crops | 4th & 5th August 2021 | 02 | PF | 08. | 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** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Increasing production and productivity of crops | 01 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | | 0 | 30 |
| Commercial production of vegetables |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Production and value addition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Fruit Plants |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Ornamental plants |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Spices crops |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Soil health and fertility management |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Production of Inputs at site |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Methods of protective cultivation |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Post harvest technology and value addition** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Processing and value addition |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Farm machinery** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Farm machinery, tools and implements |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other **(Energy Conservation)** | 04 | 88 | 2 | 90 | 18 | 11 | 29 | 1 | 0 | 1 | 107 | | 13 | 120 |
| Total | **5** | **118** | **2** | **120** | **18** | **11** | **29** | **1** | **0** | **1** | **137** | | **13** | **150** |
| **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 |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Drudgery reduction of women |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Capacity Building and Group Dynamics |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Grant Total** | **5** | **118** | **2** | **120** | **18** | **11** | **29** | **1** | **0** | **1** | **137** | | **13** | **150** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | No. of activities | Farmers | | | | Extension Officials | | | Total | | |
| M | F | T | SC/ ST  (% of total) | Male | Female | Total | Male | Female | Total |
| Field Day |  |  |  |  |  |  |  |  |  |  |  |
| Kisan Mela | 01 | 150 | 30 | 180 | 60% | 25 | 12 | 37 | 175 | 42 | 219 |
| Kisan Ghosthi | - | - | - | - | - | - | - | - | - | - | - |
| Exhibition |  |  |  |  |  |  |  |  |  |  |  |
| Film Show | 04 | 107 | 13 | 120 | 25% | 01 | 04 | 05 | 108 | 17 | 125 |
| Method Demonstrations | 04 | 54 | 26 | 80 | 35% | 01 | 04 | 05 | 55 | 30 | 85 |
| Farmers Seminar | 01 | 38 | 2 | 40 | 20% | 0 | 2 | 2 | 38 | 4 | 42 |
| Workshop | 04 | 107 | 13 | 120 | 25% | 01 | 04 | 05 | 108 | 17 | 125 |
| Group meetings | 15 | 95 | 55 | 150 | 45% | 01 | 04 | 05 | 96 | 60 | 156 |
| Lectures delivered as resource persons | 16 | 345 | 135 | 480 | 30% | 15 | 9 | 24 | 360 | 144 | 504 |
| Advisory Services | 45 | - | - | 48470 | 25% | - | - | 1500 | - | - | 49970 |
| Scientific visit to farmers field | 195 | 1135 | 325 | 1460 | 35% | 25 | 10 | 35 | 1160 | 335 | 1495 |
| Farmers visit to KVK | - | 1072 | 447 | 1519 | 25% | 60 | 22 | 82 | 1132 | 469 | 1601 |
| Diagnostic visits | 60 | 287 | 37 | 324 | 32% | 10 | 15 | 25 | 297 | 52 | 349 |
| Exposure visits | 02 | 40 | 0 | 40 | 5% | 8 | 7 | 15 | 48 | 7 | 55 |
| Ex-trainees Sammelan | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil health Camp | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Animal Health Camp | 01 | 28 | 26 | 54 | 11.1 | 06 | 01 | 07 | 34 | 27 | 61 |
| Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil test campaigns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Farm Science Club Conveners meet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Self Help Group Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MahilaMandals Conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Celebration of important days (specify) |  |  |  |  |  |  |  |  |  |  |  |
| Sankalp Se Siddhi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Swachhta Hi Sewa | 12 | 95 | 30 | 125 | 25% | 02 | 04 | 06 | 97 | 34 | 131 |
| MahilaKisan Divas | 01 | 05 | 15 | 20 | 20% | 02 | 04 | 06 | 07 | 19 | 26 |
| Webcasting of national horticultural fare2021 | 01 | 40 | 00 | 40 | 00 | 03 | 05 | 08 | 45 | 03 | 48 |
| International women’s Day | 01 | 00 | 30 | 30 | 00 | 03 | 05 | 08 | 33 | 05 | 38 |
| Vanmahostav week | 01 | 23 | 7 | 30 | 10% | 1 | 2 | 3 | 24 | 9 | 33 |
| Fish farmers’ Day | 01 | 28 | 0 | 28 | 14.2 | 01 | 05 | 07 | 29 | 05 | 35 |
| Parthenium week | 01 | 20 | 10 | 30 | 12% | 00 | 03 | 03 | 10 | 23 | 33 |
| OUAT Foundation day | 01 | 38 | 12 | 50 | 00 | 01 | 05 | 06 | 39 | 17 | 56 |
| Web casting of national campaign on food and nutrition for farmers | 01 | 23 | 37 | 60 | 8.3 | 01 | 04 | 05 | 24 | 41 | 65 |
| Campaign on nutri-garden and tree plantation | 01 | 75 | 25 | 100 | 17 | 03 | 05 | 08 | 28 | 79 | 108 |
| World food day | 01 | 20 | 20 | 40 | 7.5 | 04 | 06 | 10 | 24 | 26 | 50 |
| World fishery day | 01 | 38 | 2 | 40 | 17.5 | 01 | 04 | 05 | 39 | 06 | 45 |
| Agricultural education day | 01 | 19 | 41 | 60 | 16.6 | 01 | 09 | 10 | 20 | 50 | 70 |
| Women in agriculture Day | 01 | 00 | 50 | 50 | 100 | 00 | 04 | 04 | 00 | 54 | 54 |
| World soil Day | 01 | 21 | 01 | 22 | 16.6 | 05 | 02 | 07 | 26 | 03 | 29 |
| Web Casting of Conference on zero Budget Natural Farming | 01 | 13 | 29 | 42 | 69 | 00 | 03 | 03 | 13 | 32 | 42 |
| Jai jawan & jai kishan | 01 | 16 | 14 | 30 | 3.3 | 00 | 03 | 03 | 16 | 17 | 33 |

B. Other Extension activities

|  |  |
| --- | --- |
| Nature of Extension Activity | No. of activities |
|
| Newspaper coverage | 10 |
| Radio talks | - |
| TV talks | - |
| Popular articles | - |
| Extension Literature | 04 |
| 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 |
| Toria | Sushree | Crop at fruiting stage |  |  |  |  |  |  |  |  |  |
| Grand Total |  |  |  |  |  |  |  |  |  |  |  |

# 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 | 1600 | 1600 | 5 | 6 | 5 | 8 | 2 | 4 | 12 | 18 |
| Cabbage | Disha | 1000 | 1000 | 5 | 2 | 5 | 6 | 6 | 4 | 16 | 12 |
| Knoll khol | Indam jumbo | 1000 | 1000 | 5 | 2 | 5 | 6 | 6 | 4 | 16 | 12 |
| Tomato | Arka rakshak | 21000 | 21000 | 10 | 10 | 10 | - | 10 | 10 | 30 | 20 |
| Brinjal | JK-8031 | 6355 | 6355 | 12 | 8 | 10 | 4 | 10 | 7 | 32 | 19 |
| Chilli | Daiya | 4500 | 4500 | 8 | 6 | 9 | 9 | 10 | 10 | 27 | 25 |
| Onion | Nashik red | 10750 | 1075 | 10 | 2 | 8 | 2 | 4 | 6 | 22 | 10 |
| Others |  |  |  |  |  |  |  |  |  |  |  |
| **Fruits** |  |  |  |  |  |  |  |  |  |  |  |
| Mango |  |  |  |  |  |  |  |  |  |  |  |
| Guava |  |  |  |  |  |  |  |  |  |  |  |
| Lime |  |  |  |  |  |  |  |  |  |  |  |
| Papaya | Red lady | 1630 | 40750 | 10 | 10 | 12 | 5 | 10 | 8 | 32 | 23 |
| Drumstick | PKM-1 | 150 | 2250 | 8 | 12 | 7 | 10 | 10 | 8 | 25 | 30 |
| Banana |  |  |  |  |  |  |  |  |  |  |  |
| Marigold | Pusa narangi | 850 | 1700 | 12 | 8 | 10 | 8 | 8 | 4 | 30 | 20 |
| Others |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental plants |  |  |  |  |  |  |  |  |  |  |  |
| Medicinal and Aromatic | Buddhadaruka, Anantamula, Brahmajasthi | 15 | 150 | - | - | - | - | 1 | - | 1 | - |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |
| Spices |  |  |  |  |  |  |  |  |  |  |  |
| Turmeric |  |  |  |  |  |  |  |  |  |  |  |
| Tuber |  |  |  |  |  |  |  |  |  |  |  |
| Elephant yams |  |  |  |  |  |  |  |  |  |  |  |
| Fodder crop saplings |  |  |  |  |  |  |  |  |  |  |  |
| Forest Species | Acacia, Teak, Bakul, Deodar, Neem | 535 | 3895 | 20 | 12 | 10 | 8 | 12 | 7 | 42 | 27 |
| Others, pl.specify |  |  |  |  |  |  |  |  |  |  |  |
| Total |  | **49385** | **85275** | **105** | **78** | **91** | **66** | **89** | **72** | **285** | **216** |

**Production of Bio-Products**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of product | Quantity | Value (Rs.) | No. of Farmers benefitted | | | | | | | |
| Kg |
|  |  |  | SC | | ST | | Other | | Total | |
|  |  |  | M | F | M | F | M | F | M | F |
| Bio-fertilizers | 300 | 4500 | 15 | 5 | 1 | 1 | 6 | 2 | 22 | 8 |
| 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 |  |  |  |  |  |  |  |  |  |  |  |
| Duals (broiler and layer) | Kuroiler | 1994 | 149550 | 21 | 10 | 10 | 8 | 14 | 8 | 45 | 26 |
| Japanese Quail |  |  |  |  |  |  |  |  |  |  |  |
| Turkey |  |  |  |  |  |  |  |  |  |  |  |
| Emu |  |  |  |  |  |  |  |  |  |  |  |
| Ducks |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  |  |  |  |  |  |  |
| Piglet |  |  |  |  |  |  |  |  |  |  |  |
| Hog |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Fisheries |  |  |  |  |  |  |  |  |  |  |  |
| Indian carp |  |  |  |  |  |  |  |  |  |  |  |
| Exotic carp |  |  |  |  |  |  |  |  |  |  |  |
| Mixed carp |  |  |  |  |  |  |  |  |  |  |  |
| Fish fingerlings |  |  |  |  |  |  |  |  |  |  |  |
| Spawn |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Grand Total |  |  |  |  |  |  |  |  |  |  |  |

**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 2020 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Rabi 2020-21 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Summer/Spring 2021 |  |  |  |  |  |  |
| Kharif 2021 |  |  |  |  |  |  |
| Rabi 2021-2022 | Toria | Sushree | 0.4 | 0.4 | Crop at fruiting stage | FS |

iii) Financial Progress

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fund received  (2017-18, 2018-19, 2019-20, 2020-21, 2021-22) | Expenditure (Rs. in lakh) | | Unspent balance  (Rs. in lakhs) | Remarks |
| Infrastructure | Revolving fund |
| 2017-18 |  |  |  |  |
| 2018-19 |  |  |  |  |
| 2019-20 |  |  |  |  |
| 2020-2021 |  |  |  |  |
| 2021-2022 |  |  |  |  |

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 | ''Effect of herbicides on yield and weed dynamics of Summer Greengram in Balasore district of Odisha'' | Pravamanjari giri 1\* , niroj kumar jena 2 , krishnamayee sethi 3  Swagatika sahu 4 amita rani patra 5 and gayatree sahoo. | - | Among the participants of Conference on 5th international agronomy congress |
| Seminar/conference/ symposia papers | ''Yield and energetics of raising varying duration rice (Oryza sativa L.) cultivars under different establishment methods'' | Dr. Pravamanjari Giri  (Scientist, Agronomy) | - | Among the participants of Conference on 5th international agronomy congress |
| Books | Samanwita roga poka parichalana- eka nutana diganta | Dr. G. Sahoo, Scientist  (Plant protection) | 40 | Among the participants of Insecticide management training programme |
| Bulletins |  |  |  |  |
| News letter | Shyamala | KVK, Balasore | 1000 | Among farmers, line dept. officials, DEE |
| Popular Articles |  |  |  |  |
| Book Chapter |  |  |  |  |
| Extension Pamphlets/ literature | 1. Dhana phasalare matiagundi poka ra samanwita parichalana 2. Azolla Chasa | 1. Dr. G. Sahoo, Scientist (Plant protection) 2. Niroj Kumar Jena, Prog. asst. (Seed Sc) | 500 | Among farmers, line dept. officials, DEE |
| Technical reports | 1. APR, 2020 (ATARI) 2. APR, 2020-21 (DEE) 3. 24th SAC report 4. 25th SAC report 5. CFLD report (pulse & oilseeds) | 1. Niroj Kumar Jena  Prog. asst. (Seed Sc) | - | Among farmers, line dept. officials, DEE |
| Electronic Publication (CD/DVD etc) | 1. Dhana fasalre Samanyitia roga poka parichalana | 1. Dr. G. Sahoo, Scientist   (Plant protection) | 40 | Among the participants of Insecticide management training programme |
| 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** |
| 1. | Training (Online) | Statistical Techniques for Data Analysis in Agriculture | Dr. Pravamanjari Giri (Scientist, Agronomy) | 04.10.2021 to 13.10.2021 (10 days) | IASRI, New Delhi |
| 2. | Conference on 5th international agronomy congress | Agri innovations to combat food and nutrition challenges | Dr. Pravamanjari Giri (Scientist, Agronomy) | 23.11.2021 to 27.11.2021 (5 days) | Indian Society of Agronomy |
| 3. | Training cum webinar | On farm and mass production protocols of bioagent and microbial agents for fall armyworm management | Dr. Gayatree Sahoo  Scientist (Plant protection) | 6-8 October 2021 (03days) | ICAR – IIMR, MOA&FW, GoI, Ludhiana, Punjab |

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 | Dhananjay Giri |
| Address | AT/PO- Gadsahi-Baliapal, Jaleswar, Balasore |
| Contact details  (Phone, mobile, email Id) | 9937992841 |
| Landholding (in ha.) | 5.0 acre |
| Name and description of the farm/ enterprise | During Rabi Vegetables are cultivated in 3 acre area out of which onion is cultivated in 2.5 acre field. Incidence of purple blotch disease is a major problem due to which 60-70% yield loss has been reported. |
| Economic impact | Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection increased yield by 24.05% over the traditional practice of Spraying of Hexaconazole 5E C@ 2ml/ltr water for purple blotch disease management. |
| Social impact | In present day scenario of frequent changing climate and secondary pest outbreak, application of seed treatment and foliar spray with new molecules of systemic fungicide for management of purple blotch disease in onion is widely accepted by the farmers. And the fungicides are available in the local market. |
| Environmental impact | Use of seed treating fungicide Carboxin 37.5% + Thiram 37.5% and foliar spray fungicide Tebuconazole 25 EC are a systemic in nature which are having low mammalian toxicity at its recommended dose. |
| Horizontal/ Vertical spread | This technology is adopted at large scale in 4 blocks involving 1500 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 | Video Conference | In linkage with Reliance Foundation | 1. Celebration of National fish farmers day 10.07.2021 2. Celebration of Mahila kisan Diwas on 15.10.2021 through Google meet 3. Workshop on “Natural farming” on 16.12.2021 through ZOOM |

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** |
| 1 | Rice | Spraying of Rotten extracts of snail | To eradicate Gundhi bug |
| 2 | Rice | Spraying of cow dung slurry | To prevent grazing of cows into the crop field |
| 3 | Brinjal | Sprinkling of ash | To eradicate Epilachna beetle |
| 4 | Pulse | Mixing of mustard oil | For safe storage & to avoid attack of pulse beetle |
| 5 | 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** | **No. of farmers involved** | **Market available (Y/N)** |
| 1 | Rice | 10.5 | 40q/ha | 15 | Yes |
| 2 | Brinjal | 5.2 | 1.5t/ha | 5 | Yes |
| 3 | Nutritional Garden | 20nos. | - | 20 | 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 |  |  |  |
| 100 | 411 | 511 | 511 | 23 | - |

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 | Celebration of world soil Day-2021 | 22 | - | - | 22 | 22 |

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 |
| Vanmahostav week | 01 | 33 | Plantation crop |
| Parthenium week | 01 | 33 | Weed identification &management |

3.14. RAWE/ FET programme - is KVK involved? (Y/N)

|  |  |
| --- | --- |
| No of student trained | No of days stayed |
| 43 | 01day |

|  |  |
| --- | --- |
| 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** |
| 17.09.2021 | Sesadutta Soni | Mass plantation & Nutrition programme |
| 22.12.2021 | Hemata Kumar Sahoo, DD, DEE, OUAT | 25th SAC Meeting |
| 29.12.2021 | R.N. Mohapatra, SCO, Balasore | Verification of Seed production in Toria at KVK |

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) |
| IFS | 40 | 58% | 55000 | 114000 |
| Organic Farming | 40 | 72% | 50000 | 80000 |
| Mushroom cultivation | 30 | 80% | 33,000 | 72,000 |

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** |
| Post-emergence application of Penoxulam in transplanted rice | 16500 ha |
| BPH tolerant Paddy var. Hasanta | 2500ha |
| Mite management in Paddy | 700ha |
| Bunch feeding in banana | 180ha |
| Purple blotch management in Onion | 100ha |
| Water soluble fertilizer NPK-18-18-18 in Black gram | 520ha |
| Dual purpose poultry breed Kuroiler | 184nos. |

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 |
| 1 | Post-emergence application of Penoxulam in transplanted rice | This technology is adopted in 16500 ha | 16.4% yield increase over Farmers practice |
| 2 | BPH tolerant Paddy var. Hasanta | This technology is adopted in 2500ha | 16.8% yield increase over Farmers practice |
| 4 | Bunch feeding in banana | This technology is adopted in 180ha | 24.97% yield increase over Farmers practice |
| 5 | Purple blotch management in Onion | This technology is adopted in 100ha | 24.05% yield increase over Farmers practice |
| 6 | WSF NPK-18-18-18 in Black gram | This technology is adopted in 520ha | 35.9% yield increase over Farmers practice |
| 8 | Dual purpose poultry breed Kadaknath | This technology is adopted by 184nos. | 240/- per bird net income in demo as against 140/-in FP |

4.4. **Details of innovations recorded by the KVK**

|  |  |
| --- | --- |
| Thematic area | Mushroom cultivation |
| Name of the Innovation | Cultivation of Paddy straw by using by leftover straw from paddy field by oyster method |
| Details of Innovator | Jasobant Pradhan, AT- Birapalia, Po-Devog, Block Baliapal |
| Back ground of innovation | After harvesting of paddy, some straw has been left over in the field itself. The innovator tried to use this leftover straw from the field for Paddy straw mushroom cultivation |
| Technology details | Soaking of straw for 07hour, 2.5kg left out straw used for bed preparation like that of oyster mushroom. The polythene will be removed from 06th day onwards. |
| Practical utility of innovation | Yield per bed recorded – 450g, he earned 72/- per bed with an investment of 20/-. By this method, the left over straw can be used for income generation |

4.5. **Details of entrepreneurship development**

|  |  |
| --- | --- |
| Entrepreneurship development | |
| Name of the enterprise | Mushroom Production |
| Name & complete address of the entrepreneur | Jasobant Pradhan, At- Birpalia, Po-Devog, Baliapal |
| Role of KVK with quantitative data support: | * Skill development training on Mushroom production * Demonstration on mushroom cultivation on crumpled straw |
| Timeline of the entrepreneurship development | * 2019: Training on Mushroom cultivation, Started Mushroom unit * 2020: Started Oyster production-1unit & upscaling of PS Mushrrom unit * 2021: Started Vermi-culture production & vermicompost – 5nos. of tank |
| Technical Components of the Enterprise | Paddy straw, Oyster Mushroom Cultivation, Installation of fogger unit |
| Status of entrepreneur before and after the enterprise | He was earning about Rs 90,000/- per annum & maintaining his day to day life with difficulties. Now he is earning 6,46,500/- per annum, has purchased a two wheeler & android mobile phone. |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc.  ( Economic viability of the enterprise): | Net profit – 217500/annum |
| Horizontal spread of enterprise | * Technical support to 30nos. farmers interested for Mushroom cultivation. * Collection of mushroom from 20nos. of farmers of Baliapal & Supplied to Balasore & Baripada Market |

4.6. **Any other initiative taken by the KVK**

* Banana Macro-propagation unit established
* Demo unit of livestock materials like Duck, Turkey & Guinea fowl is established
* Hydroponic unit for cultivation of leafy vegetables

5. LINKAGES

5.1. Functional linkage with different organizations

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| Agriculture dept. | Soil health card scheme, NFSM, TRFA, ATMA, Training |
| Horticulture dept. | QPM verification, Training |
| Veterinary dept. | Animal health camp |
| OLM, Balasore | Training to WSHG Groups |
| NABARD | Workshop on Agri- Clinics & Agri -Business Centres |
| Reliance foundation | Audio conference, Video Conference |
| IFFCO | Poshan Mah |
| CSISA | Zinc Trail |
| Watershed | Training on IFS |

5.2. List of special programmes undertaken during 2021by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the programme/scheme | Purpose of programme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
| ATMA | Residential training programme (01 nos.) | 4th and 5th August 2021 | ATMA | 24000/- |
| Workshop on “Energy Conservation” | Awareness on Energy conservation | September & October, 2021 | PCRA | 7000/- per workshop |

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 brooding unit | 2011-12 | 50 | Kuroiler | 21 days old chicks | 1994 | 110300 | 149550 |  |
| 2. | Vermicompost unit | 2010-11 | 03nos. of tank | *Eisenia foetida* | Vermicompost | 300 kg | 2000 | 4500 |  |
| 3. | Medicinal garden | 2011-12 | - | - | Planting materials | 22 nos |  | 220 |  |
| 4. | Shade-net unit | 2011-12 | 30x15ft |  | Planting materials | 49385 | 28557 | 85275 |  |
| 5. | Mushroom spawn production lab | 2010-11 | 01no. | Paddy straw and oyster | spawn | 1042 | 11740 | 18756 |  |
| 6. | Mushroom production unit | 2020-21 | 01nos. | Paddy straw and oyster | mushroom | 92.5 | 4612 | 5640 |  |
|  | 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 |
|  |  |  |  |  |  |  |  |  |  |

* 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 |
| 01 | Vermicompost | 300 | 2000 | 4500 | Supplied to 30nos. of farmers |
|  |  |  |  |  |  |

* 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 breed | Kuroiler | 21 days old Chicks | 1994 | 110300 | 149550 |  |

* 1. Utilization of hostel facilities

Accommodation available (No. of beds)

|  |  |  |  |
| --- | --- | --- | --- |
| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
| August | 30 | 02 | - |
| Total : | 30 | 02 | - |

(For whole of the year)

* 1. Utilization of staff quarters

Whether staff quarters has been completed: Yes

No. of staff quarters: 04

Date of completion: 2008

Occupancy details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Months | Q I | QII | Q III | QIV |
| January, 2021-  June, 2021 | Birendra Kumar Parida  Driver-cum-Mechanic | Manoj Kumar Jena  Scientist (Soil Sc.) | Debendranath Das  Peon-cum-Watchman | Vacant |
| June, 2021-December 2021 | Dr. Swagatika Sahu, SS&H | Raghunath Soren, PA (Computer) | 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** |
| Current Account | State Bank of India | Baliapal | 11524957372 |
| Current Account | UCO Bank | Debhog | 17550200000062 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April, 2021 |
| Kharif | Rabi | Kharif | Rabi |
| Groundnut (10 ha) | - | 120000 | - | - |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April 2021 |
| Kharif | Rabi | Kharif | Rabi |
| - | - | - | - | - | - |

7.4 **Utilization of KVK funds during the year 2021-22 (Not audited)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Particulars | Sanctioned | Released | | Expenditure |
| A. Recurring Contingencies | | | | | |
| 1 | Pay & Allowances | 12300000 | 10275000 | | 6491434 |
| 2 | Traveling allowances | 120000 | 90000 | |  |
| 3 | HRD | 30000 | 22500 | |  |
| 4 | Contingencies | 1020000 | 900000 | 917916 | |
| *A* | Stationery, telephone, other expenditure on office running | 480000 |  | |  |
| *B* | POL, repair of vehicles, tractor and equipments |
| *C* | Meal refreshment for residential and non-residential trainings | 360000 |  | |  |
| *D* | Training material (need based material and equipments for conducting the training) |
| *E* | Frontline demonstration | 180000 |  | |  |
| *F* | On Farm Testing (on need based, location specific and newly generated information in the major production systems of area) | 180000 |  | |  |
| *G* | Integrated farming system (IFS) | - |  | |  |
| *H* | Training of extension functionaries | - |  | |  |
| *I* | Extension activities | - |  | |  |
| *J* | Farmer’s field school | - |  | |  |
| *K* | EDP/ innovative activities | - |  | |  |
| *L* | Soil & water testing & issue of Soil Health Cards | - |  | |  |
| *M* | Display Board |  |  | |  |
| *N* | Maintenance of building |  |  | |  |
| *O* | SCSP | 1100000 | 415000 | | 173063 |
| *P* | Swachhta Expenditure/ SAP Fund |  |  | |  |
| TOTAL (A) | | **14750000** | **11702500** | | **1090979** |
| B. Non-Recurring Contingencies | | | | | |
| 1 | Equipments and furniture | **280000** | **-** | |  |
|  | 1. Office Automation |  | **-** | |  |
|  | 1. Furniture & Fixtures |  | **-** | |  |
| 2 | Works | **350000** | **-** | |  |
|  | 1. Irrigation System |  | **-** | |  |
| 3 | Vehicle |  |  | |  |
| 4 | Library (purchase of assets like books & journals back volume) | **10000** | **-** | | **-** |
| TOTAL (B) | | **640000** | **0** | |  |
| C. REVOLVING FUND | | **-** | **150000** | | **139027** |
| GRAND TOTAL (A+B+C) | | **153900000** | **11852500** | | **7721440** |

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)** |
| 2019-20 | 3,50,000 | 1,80,000 | 75,000 | 455000 |
| 2020-21 | 5000 | 170000 | 80000 | 95000 |
| 2021-22 | 84364 | 185088 | 139027 | Nil |

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

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities:-

* Off campus farmer training programmes are being conducted by KVK in association with SHGs of respective villages.
* Demonstration on Mushroom cultivation & value addition in Tomato has been conducted at Mirigimundi & Silasuan
* Training to SHGs on “Nursery raising” in convergence with OLM

(iii) Details of marketing channels created for the SHGs:

The market linkage has been channelized through OLM & ORMAS, Balasore

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of activity | Number of activity | Season | With line department | With ATMA | With both |
| Diagnostic field visit to BPH/ WBPH affected area | 03 | Kharif | CDAO, ADO (Soro, Nilgiri), BAO (Soro, Nilgiri) AAO(Soro, Nilgiri, Basta) |  |  |
| World Soil Day-2021 | 01 | Rabi | CDAO, Balasore |  |  |

8. **Other information**

8.1. Prevalent diseases in Crops

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the disease | Crop | Date of outbreak | Area affected (in ha) | % Commodity loss | Preventive measures taken for area (in ha) |
| Sheath blight | Paddy | Sept- Oct & Feb- Mach | 2730 ha | 55% | 2600 ha |
| Purple blotch | Onion | Dec- Jan | 540 ha | 55% | 500 ha |
| Early blight | Potato | Dec- Feb | 450 ha | 40% | 380 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/ SMS Portal)

|  |  |  |
| --- | --- | --- |
| Type of message | No. of messages | No. of farmers covered |
| Crop | 35 | 48527 |
| Livestock | 02 | 48527 |
| Fishery | 00 | 48527 |
| Weather | 03 | 48527 |
| Marketing | 00 | 48527 |
| Awareness | 04 | 48527 |
| Training information | 01 | 48527 |
| Other |  |  |
| **Total** | **45** | **48527** |

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 | Nil |
| 4. | Name of the App | Nil |
| 5. | Language of the App | Nil |
| 6. | Meant for crop/ livestock/ fishery/ others | Nil |
| 7. | No. of times downloaded | Nil |

9.5. a. Observation of Swachh Bharat Programme

|  |  |
| --- | --- |
| Date/ Duration of Observation | Activities undertaken |
| 16.10.2021 | Awareness on sanitation & cleanliness |
| 29.10.2021 | Clean India campaign under Azadi ki Amrit Mahotshav |

b. Details of Swachhta activities with expenditure

|  |  |  |
| --- | --- | --- |
| **Activities** | **Number** | **Expenditure (in Rs.)** |
| 1. Digitization of office records/ e-office | 05 | - |
| 1. Basic maintenance | 04 | - |
| 1. Sanitation and SBM | 12 | -- |
| 1. Cleaning and beautification of surrounding areas | 25 | - |
| 1. Vermicomposting/Composting of biodegradable waste management & other activities on generate of wealth for waste | 03 | 3000 |
| 1. Used water for agriculture/ horticulture application | 01 | - |
| 1. Swachhta Awareness at local level | 50 | - |
| 1. Swachhta Workshops | 04 | - |
| 1. Swachhta Pledge | 15 | - |
| 1. Display and Banner | 02 | - |
| 1. Foster healthy competition | 03 | - |
| 1. Involvement of print and electronic media | 01 | - |
| 1. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | 05 | - |
| 1. No of Staff members involved in the activities | 12 | - |
| 1. No of VIP/VVIPs involved in the activities | 02 | - |
| 16. Any other specific activity (in details) |  | - |
| **Total** |  | **-** |

9.6. Observation of National Science day

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

9.7. Programme with Seema SurakshaBal/ BSF

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

9.8. Agriculture Knowledge in rural school

|  |  |  |  |
| --- | --- | --- | --- |
| Name and address of school | Date of visit to school | Areas covered | Teaching aids used |
| Srirampur High School | 03.12.2021 | Baliapal | GD |

Give good quality 1-2 photograph(s)

9.9. Details of Swachhta Hi Suraksha programme(16-31.12.2021) organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 01 | Training programme | 04 | 20 | - | - |
| 02 | Awareness | 01 | 30 | 01 | Dr. H.K. Sahu |
| 03 | Clean India Campaign | 03 | 30 | - | - |

9.10. Details of Mahila Kisan Divas programme(15.10.2021) organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 1 | 1. Awareness on organic farming 2. Importance of IFS 3. Importance of nutritional gardening 4. safe use of chemical insecticides and pesticides 5. Importance of seed treatment 6. Importance of community pisciculture by WSHgs | 05 | 20 | 06 | 1.Dr A.K. Patra  Chief Agronomist,IFS,OUAT  2.Dillip kumar Pradhan, RC, Reliance foundation  3.Dr.S.Sahu,SSH  4.Dr.ARPatra  5.Dr. Gayatree Sahoo  6.N.K Jena |

9.11. 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 |
|  | Jayanta Giri | Raidhenk, Baliapal, 7894568842 | Banana Grower |
|  | Harendra Giri | Gadashi, Jaleswar, 8018835891 | Paddy, Toria, Vegetable Grower |
|  | Bhuban Pramanik | NMpadia, Bhograi, 8917575594 | Pond based IFS |
|  | Bibhuti charan Das | Basulidiga, Basta - 9692967903 | Paddy, Pulses |
|  | Kalicharan Sahoo | Gopinathpur, Baliapal - 8280041980 | Hybrid seed production |
|  | Subala Chandra Khanda | Silasuan, Remuna - 8342099216 | Paddy, Vegetable |
|  | Kabita Samantray | Choumukh, Baliapal - 9692689537 | Mushroom, Mushroom Spawn |
|  | Indubala Pal | Kanhupenth, Baliapal - 8093506841 | Paddy, Potato, Mushroom |
|  | Pradeep Bhuyan | Katisahi, Baliapal - 8093450470 | Hybrid seed , Pisciculture |

9.12. Revenue generation

| Sl.No. | Name of Head | Income(Rs.) | Sponsoring agency |
| --- | --- | --- | --- |
| 1. | Training hall charge | 4000/- | PCRA |
| 2. | Hostel charge | 6000/- | ATMA |

9.13. Resource Generation:

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

9.14. Performance of Automatic Weather Station in KVK

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

9.15. 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 | 02 no. of training | 60 | 1. An FLD was conducted on climate smart cultivar having characteristics of tolerant to both submergence and drought  2. Three no. of weather advisory has been sent to 48000 nos. of farmers |

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

1. Year: 2021
2. Introduction / General Information:

Zinc is an essential plant nutrient required for several biochemical processes in the rice plant, including chlorophyll production and membrane integrity. Thus, Zn deficiencies affect plant growth and significantly reduce the yield when the soil supply of Zn is low or adverse soil conditions (such as continuous flooding) prevent plant uptake of Zn. Zinc deficiency in submerged rice soils is very common owing to the combined effect of increased pH, HCO3– and S2– formation. About more than 60% of soils are reported to be deficient in available Zn, and soil application of Zn (ZnSO4) or foliar spray of ZnSO4 has been in recommendation. But crop response to Zn fertilizer application is governed by many factors including wide soil variability and management practices which are not properly documented or not accessible.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Title | Objective | Treatment details | Date of sowing | Replication | Result (Grain yield) with photographs |
| Experiment 1 | On-farm evaluation of crop response to Zn in Odisha | To evaluate the response of crop to Zn application in Odisha | T1: Farmer variety without Zn application  T2: Farmer variety with soil application of Zn sulphate @25 kg/ha  T3: Farmer variety with 0.5% Zn sulphate foliar spray  T4: Farmer variety with Zn-coated DAP/MOP/Urea + 0.5% Zn sulphate foliar spray  T5: Zn-enriched variety without Zn application  T6: Zn-enriched variety with basal dose of Zn-coated DAP/MOP/Urea  T7: Zn-enriched variety with 0.5% Zn sulphate foliar spray  T8: Zn-enriched variety with basal dose of Zn-coated DAP/MOP/Urea + 0.5% Zn sulphate foliar spray | 04.08.2021 | 6 | T1: 46.2 q/ha  T2: 48.8 q/ha  T3: 48.3 q/ha  T4: 50.4 q/ha  T5: 41.6 q/ha  T6: 43.4 q/ha  T7: 42.9 q/ha  T8: 45.1 q/ha |
| Others (If any) |  |  |  |  |  |  |

11. Celebration of World Food Day in 2021

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Activities undertaken** | **No. of VIPs attended** | **No. of participants** | | |
|  |  |  | **M** | **F** | **T** |
| **01** | Awareness campaign | **-** | **20** | **20** | **40** |
| **02** | Film Show | **-** |
| **03** | Sapling distribution | **-** |
| **04** | Swachh Bharat Programme | **-** |

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 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

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** |
|  | 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/- | - |
|  | Bhograi FPCL | (U01100OR2016PTC025221, Dated : 11.05.2016) | 11.05.2016  AT/PO-Soharia  PS-Bhograi BALASORE,  ODISHA-756036 | Paddy, Pulse &  Paddy seed Production | Paddy,  Pulse | 100 | 675251/- | - |
|  | Mahalaxmi Producer group | 22020002000007  18.01.2019 | 07.01.2020  Silasuan, Remuna | Value addition | Tomato sauce, Chilli sauce, vegetable pickle, Cakes, Badi, Pampad | 20 | 204000/- | - |
|  | Radha Mushroom Producers Group |  | 24.09.2019  Mirigimundi, Rupsa | Mushroom cultivation & marketing | Paddy straw & Oyster | 42 | - |  |

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 adoption of the technology | No. of farmers adopted the technology in the district | One high resolution ‘Photo’ in ‘jpg’ format for each technology |
| 1 | INM in Brinjal | Application of 75% of STBFR fertilizer N + 100% fertilizer P & K + FYM @ 2t/ha + Bio-inoculation of Azotobacter@ 4kg/ha + Azospirilum@ 4 kg/ha with 200kg prelimed FYM (Lime 10kg) incubated for 7 days at 30% moisture & applied in rhizosphere at the time of planting | 3,01,600 | 130 | F:\2020-21\Photos, 2020-21\02FLD, 2020-21\Soil Sc\INM_Brinjal (6).jpg |
| 2 | BPH tolerant rice variety “Hasanta” | Cultivation of BPH tolerant rice cultivar Hasanta | 46672 | 180 | C:\Users\prava\Desktop\SAC DECEMBER 2021\IMG_20211112_155532.jpg |
| 3 | management of purple blotch disease in onion | Seed treatment with Carboxin 37.5% + Thiram 37.5% (0.2%) + three foliar spraying with Tebuconazole 25 EC (0.1%) at 15 days interval starting from initiation of the infection | 3,01,600 | 85 | C:\Users\user\Desktop\annual report 2021\annual report ppt\onion\20201210_221246.jpg |
|  | Poultry breed Kadaknath for higher income | Rearing of poultry breed Kadaknath in backyard after brooding up to 21 days with proper vaccination | 240000 | 48 | F:\2019-20\Photos, 2019-20\02FLD, 2019-20\Home Sc\kadaknath (3).jpg |

1. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2021

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | | | | | |  |  |

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2021

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |  |
| Certificate course training programme | Insecticide management training programme for insecticide dealers/ distributers | 96 | 3 | 0 | 0 | 0 | 37 | 0 | 40 | 0 | 37 | 304000/- |

1. Information on NARI Project(if applicable)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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. **Specific programmes for the period**

**i. Achievements in SCSP (Scheduled Caste Sub-Plan) (Specific for SC farmers only)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No.** | **Activity** | **No. of SC farmers/ stakeholders** | | |
|  |  | **Male** | **Female** | **Total** |
| 1 | On- farm trials | 0 | 0 | 0 |
| 2 | Frontline demonstrations | 62 | 36 | 98 |
| 3 | No. of Training programmes for farmers | 293 | 207 | 500 |
| 4 | Farmers trained | 293 | 207 | 500 |
| 5 | No. of Training programmes for Extension Personnel | 0 | 0 | 0 |
| 6 | Extension Personnel trained | 0 | 0 | 0 |
| 7 | Participants in extension activities | 0 | 0 | 0 |
| 8 | Distribution of seed | 18 | 72 | 90 |
| 9 | Planting material distributed | 06 | 00 | 06 |
| 10 | Livestock strains and fingerlings distributed | 13 | 97 | 110 |
| 11 | Soil, water, plant, manures samples tested | 15 | 47 | 62 |
| 12 | Mobile agro-advisory provided to farmers | - | - | 2000 |
| 13 | Other (Awareness programme on importance of organic vegetables for our health) | 04 | 36 | 40 |
|  |  |  |  |  |

**ii. Capacity building of farmers through training on Profitable Dairy Farming and Livestock Management (In case your KVK has Scientist (Animal/Veterinary Science))**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Title of the training** | **Date/**  **Duration** | **No. of Participants** | | | | | | | |
| **SC** | | **ST** | | **Other** | | **Total** | |
| **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** |
| - | - | - | - | - | - | - | - | - | - | - |

1. **Status of Natural Farming**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop/ Commodity involved in Natural farming | Area covered under such farming (ha) | No. of farmers practicing Natural farming at present | Details of individual farmers (Name and Contact No.) | Organic component/ inputs used for such farming |
| - | - | - | - | - |

1. **Farmer Producer Organizations**
2. **General information**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name & Address of FPO** | **Name &Contact No. of Head of FPO** | **No. of farmer members of FPO** | | | **Crop/ Enterprise dealt with by FPO** | **Kind of support provided by KVK in running/ starting of FPO (in brief)** |
|  |  |  | **M** | **F** | **T** |  |  |
|  |  |  |  |  |  |  |  |

1. **Financial information**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name & Address of FPO** | **Date of Registration** | **FPO Registered (Y/N)** | **Application Submitted for Registration (Y/N)** | **No. of share-holding farmer members** | **Equity Amount Collected (Rs.)** | **Bank Account Opened (Y/N)** | **Board Reconstituted after attaining minimum membership (Y/N)** |
|  |  |  |  |  |  |  |  |

1. **Nutri-gardens (Village wise)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of village** | **Name of crop** | **Area under the crop (acre)** | **No. of farmers** | | | **Whether bio-fortified variety of crop used (If yes, mention variety & crop)** |
|  |  |  |  | **M** | **F** | **T** |  |
|  |  |  |  |  |  |  |  |

1. **Progress report on scientific beekeeping (2020-21 & 2021-22)**

| **Name of KVK** | **Total budget allotted (Rs.)** | **Total budget utilized (Rs.)** | **Physical Training organized** | | | | **Online Training organized** | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. of training** | **No. of total participants** | | | **No. of training** | **No. of total participants** | | |
|  |  |  |  | **M** | **F** | **T** |  | **M** | **F** | **T** |
| - | - | - | - | **-** | **-** | **-** | **-** | **-** | **-** |  |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of the programme | Date of the programme | Venue | Purpose | No. of participants |
| 01 | Certificate course training programme on insecticide management for insecticide dealers/distributors | 21.01.2021-17.03.2021 | KVK, Balasore | Certificate course training programme | 40 |

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



OFT on climate smart rice varieties – CR Dhan 802 Assessment of bio-priming in Green gram OFT on Leaf blast in paddy Management



FLD on Paddy var. Hasanta FLD on Bunch feeding in Banana FLD on Brinjal F&S borer management





Clean India Campaign Animal Health Camp Poshan Mah-2021



RY training on Biopesticide Agriculture Education Day-2021 Training on SHC Scheme (convergence)