**PROFORMA FOR ANNUAL REPORT2022 (January-December 2022)**

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. SwagatikaSahu | 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, 2022**)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. SwagatikaSahu | 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. PravamanjariGiri | Scientist | Crop Production | 15600- 39100/- (19050/-) | 01/01/2016 | Permanent | Others |
| 4 | Subject Matter  Specialist | Dr. GayatreeSahoo | Scientist | Plant protection | 15600- 39100/- (19810/-) | 29/12/2015 | Permanent | Others |
| 5 | Subject Matter  Specialist | Dr. KamalakantaBehera | 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 | RaghunathSoren | Programme Assistant | Computer  Science | 35400- 1,12,400/-  41100/- | 04.06.2021 | Permanent | ST |
| 10 | Farm Manager | LaxmikantaMurmu | Farm Manager | Ag. Economics | 35400- 1,12,400/-  37,600/- | 01.08.2022 | 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 | SrikantaSahoo | 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 | DebendraNath Das | Peon Cum Watchman |  | 4750- 14680/-  22900/- | 01/08/2008 | Permanent | Others |
| 16. | Supporting staff | Vacant |  |  |  |  |  |  |

1.6. Total land with KVK (in ha) :

|  |  |  |
| --- | --- | --- |
|  | Under Buildings | 0.8 |
|  | Under Demonstration Units | 0.8 |
|  | Under Crops | 1.0 |
|  | Orchard/Agro-forestry | 0.2 |
|  | Mini IFS unit | 0.1 |
|  | Poly house and Shade net | 0.2 |
|  | Unutilized Land (Encroached) | 4.5 |
|  | Total | **7.62** |

*Total area should be matched with breakup*

1.7. InfrastructureDevelopment :

A) Buildings and others

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S. No. | Name of infrastructure | Not yet started | Completed up to plinth level | Completed up to lintel level | Completed up to roof level | Totally completed | Plinth area (sq.m) | Under use or not\* | Source of funding |
| 1. | Administrative Building |  |  |  |  | Yes |  | Use | ICAR |
| 2. | Farmers Hostel |  |  |  |  | Yes |  | Use | ICAR |
| 3. | Staff Quarters (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 godown |  |  |  |  | Yes | 36 | Use | ICAR |
| 9. | Dairy unit | Yes |  |  |  |  |  |  |  |
| 10. | Poultry unit |  |  |  |  | Yes | 50 | Use | RKVY |
| 11. | Goatary 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,Vermi-compost unit |  |  |  |  | Yes | 12 | Use | RKVY |
| 17 | Over Head Tank | - | - | - | - | Yes | - | Use | ICAR-ATARI, Kolkata |
| 18 | Polyhouse | - | - | - | - | Yes | - | Use | ICAR-ATARi, Kolkata |

\* 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 | 10527 | Running |
| Bolero | 2011 | 460534 | 177766 | 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 |
| Autoclave | 2022-23 | 80000 | 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 |
| Solar Street Lighting System | 2022-23 | 32000 | Working | ICAR-ATARI, Kolkata |
| Pulverizer | 2022-23 | 19470 | 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 |
| Interactive board | 2022-23 | 30499 | Working properly | ICAR-ATARI, Kolkata |
| Whiteboard stand | 2022-23 | 1190 | Working properly | ICAR-ATARI, Kolkata |
| Laptop | 2022-23 | 46471 | Working properly | ICAR-ATARI, Kolkata |
| Ceiling Mount only Projector Stand | 2022-23 | 6969 | Working properly | ICAR-ATARI, Kolkata |
| Tripod Stand | 2022-23 | 5500 | 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 of SAC meeting\* conducted in the year

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Date | Number of Participants | Salient Recommendations | Action taken | If not conducted, state reason |
| 1. | 22.11.2022 | 34 | * Horizontal spread of Rice-Maize + cowpea cropping system & waste decomposer technology should be done * Recruitment of Horticulture & veterinary scientist * Popularization of kitchen garden through round the year demonstration & through print media * Training & technical guidance to fisheries FPO and value addition to members of Vegetable based FPOs to be provided * Training may be conducted on Non-paddy crop & seed growers under ATMA Scheme * Training on “rearing of poultry birds” to be conducted under ATMA * Soil health management through demonstration of green manuring and soil ameliorants, awareness programme & literature supply * Off campus of training to be provided to WSHG involvement in fishery sector * Bio-floc technology should be popularized among farmers & IMC culture in bio-floc should be standardized * Cultivation of freshwater prawn to be promoted & Value addition in Marine fish/prawn should be popularized * Latest technology to be popularized for pest & disease management in vegetable crops like Tomato, Cucumber, Chilli, Bitter gourd * Salt tolerant paddy varieties should be taken up * Assessment of different cultivars of potato at KVK demo unit should be done * Soil testing from demonstration plot & adopted village should be conducted * Non-paddy crop like Jute cultivation should be encouraged in Kharif season * Improved cultivars of Pulses & oilseed should be popularized in Rice fallow area * Awareness prog. on BPH management in paddy should be conducted * Strengthening of FPOs activity by KVK in convergence with line dept * Demonstration for argulus management in pisciculture * Demonstration of Kuroiler poultry breed & Khaki Campbell duckling should be conducted * Awareness programme should be encouraged disease & feed management in poultry * Skill based training on nutrient management in organic farming to be conducted * Climate smart Rice varieties should be popularized * Value addition of mushroom & Milk to be popularised among WSHGs * Demonstration on organic farming/natural farming should be taken up | Will be conducted during 2023-24 |  |

*\* Salient recommendation of SAC in bullet form*

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

**PROCEEDINGS OF THE 26th SCIENTIFIC ADVISORY COMMITTEE MEETING of KVK, BALASORE**

The **26h** Scientific Advisory Committee (SAC) Meeting of KVK, Balasore was held on 22.11.2022 in the Conference Hall of KVK under the Chairmanship of Dr. A.K. Khuntia, JDE (Monitoring), DEE, 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 Prof. A.K. Khuntia, JDE (Monitoring), DEE, OUAT, Bhubaneswar briefed the objective & importance of the SAC meeting for the better functioning of KVK and started the proceedings as per the agenda. Dr. A. Haldar, Principal Scientist, ICAR-ATARI, Kolkata 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 (25th SAC-22.12.2021**)** of the KVK as per the recommendation of the last meeting as mentioned below.

**Action Taken Report on Recommendation of the25th SAC Meeting held on 22.11.2022**

|  |  |
| --- | --- |
| **Recommendations** | **Action Taken** |
| Improved variety of Tomato to be popularised among farmers | * One FLD on Tomato var. ArkaRakshyak has been conducted involving 10 beneficiaries, area – 2.0 acre (SCSP) Chadapalagenia, Raidhenk (Baliapal) Yield – 780q/ha * Field Day conducted Chadapalagunia– 50no. Of farmer |
| Demonstration & training to be conducted on Thrips & Mite management in chilli& wilt management in brinjal | * 02nos. Training (60nos. Farmer) conducted * OFT on “Integrated wilt management in brinjal” (Kharif, 2022 - continuing) – (1.0ha-07farmer) (Macharanka& Simulia, Basta) * FLD on “Thrips & Mite management in chilli var. Daiya (Rabi, 2021-22), Area – 2.0ha (Demo – 10nos., Yield – 68.8q/ha (Gadsahi) |
| Technology to be provided to farmers for cultivation of freshwater prawn culture | * One training on Polyculture of freshwater prawn with IMC has conducted involving 30 participants for 2 days at Kalarui, Baliapal under SCSP. * One FLD has been conducted involving 10 beneficiaries, pond area 2 ha. (Yield - 715.4 kg+ IMC 5.21 ton/ ha ) |
| Vermicomposting training to be imparted to mushroom growers | * 02nos. of Skill training conducted (07days) * 40nos. of participants trained (Baliapal, Jaleswar, Basta) * 01demonstration conducted under SCSP programme (10no. demo) |
| Training prog. on Paneer preparation & Packaging of Paneer in convergence with OLM & ORMAS | * Training on “Preparation of value added products from Milk” has conducted (01no.- 30trainee) Jayrampur, Bhograi * Skill training on “Preparation of value added products from Milk” under SCSP (01no.-03day-20trainee) * Initiative taken for formation of FPO on Milk products in convergence with NABARD at Baharda, Bhograi * Paneer pressing machine will be demonstrated during December, 2022 under SCSP |
| Vegetable & Fishery based IFS model to be popularized | * ATMA Sponsored training on “IFS” conducted (01nos-02days-30 farmers) * Skill training on “IFS” conducted (01nos-03days 20 farmers) * Demonstration on Pond based IFS conducted during Rabi, 2021-22 involving 10 beneficiaries |
| Popularization of biopesticide&biofertilizer use through training & method demonstration | * Workshop on “Natural Farming” (01no.-50) * Skill training on “Organic farming” (03nos-06days-70farmer) &“Vermicomposting” (02nos-07days- 40trainees) conducted * Method demonstration on vermicomposting – Chormara, Basta – 02no.-60farmer (NABARD ) * Method demonstration on use of trichocard – Gadsahi (Maize & Brinjal – 25nos. farmer) * Bio-priming (Rhizobium& PSB) in Green gram conducted (area -1.0ha-07farmer (yield – 7.3 & 7.1q/ha) Basulidiga village |
| Training & demonstration on backyard poultry should be taken up | * Training Conducted on “Backyard rearing of improved poultry breed (03nos.- 05Days - 90Farmer) (Pandurangi (Basta), Kudumipal (Nilgiri) * Demonstration of poultry breed Kuroiler (55Farmer) under SCSP – Avg. body Wt. 2.7kg/bird in 6month –(Pandurangi, Badakhudi, Pathadurga (Basta), Kudmansingh (Baliapal) |
| New OUAT released varieties to be included in trial & demonstration programme | * Paddy var. Hasanta demonstrated under SCSP (10.0ha-30farmer) Kharif 2022 (Raidhenk, Chadapalabegunia) * Crop is at maturity stage |
| Farmer should be trained on “Breeding/culture technology of fresh water tangra” &Singi | * Training programme on bio-floc fish farming conducted (01no-03days-18farmers) * Assessment of growth performance of different species in bio-floc system (03farmer) Male tilapia, Singi, tangra at Baliapal, Remuna during Rabi, 2022-23 |
| Popularization of improved varieties of Groundnut & Maize | * Groundnut var. Dharani demonstrated under CFLD (10ha -40nos.) Yield – 23.2q/ha (Narayanpur village) * Maize var. VNR 4262 demonstrated under FLD on crop diversification (2.0ha – 10nos.) Yield – 9.8t/ha (Gadsahi Village) |
| Popularization of cultivation practices of grafting technology of Brinjal & Tomato | * Demonstration of grafted brinjal conducted under SCSP (50farmer-750seedling) * Conducted at Baliapal, Basta, Bhograi, Sadar & Jaleswar |
| Value addition of oyster mushroom to be popularized | * Training on “Preparation of value added product from oyster mushroom’’ and OFT on Assessment of value added products from Oyster mushroom” will be conducted during January, 2023 |
| Technical guidance to be provided to FPOs on in-land fisheries | * One fishery FPO with help of NABARD is registered at Basta block, inaugurated on 25th April, 2022. |

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

The Sr. Scientist & Head presented the achievements for the year Rabi, 2021-22 &Kharif, 2022

**Training:**

* KVK has conducted 45 nos. training programme for practicing farmers and farm women (1350nos. trainees), 06nos. for rural youth (120nos. trainees) and 04nos. for extension functionaries (80nos. trainees), 01nos. of CFLD training (30 nos. trainees), 04nos. PCRA training (120nos. trainees), 02nos. of ATMA residential training (60nos. trainees), 02nos. of CIFT residential training (40nos. trainees) & 19 nos. training programme for practicing farmers and farm women along with 07nos. of Skill training under SCSP (710nos. trainees) during 2020-21
* KVK has conducted 24 nos. training programme for practicing farmers and farm women (720nos. trainees), 03nos. for rural youth (60nos. trainees) and 02nos. for extension functionaries (40nos. trainees), 12nos. of training under SCSP (320 nos. trainees), 02nos. training under JalshaktiAbhiyaan(100nos. trainees) & 03nos. of training under ATMA (90nos. trainees) during April-October, 2022.

**On farm testing (OFT):**

KVK has conducted OFTs (04nos. during Rabi, 2021-22) & (04nos. during Kharif, 2022)

**SALIENT ACHIEVEMENTS OF MAJOR OFTS**

**Rabi, 2021-22**

* **Assessment of integrated management of Collar rot disease in Ground nut** - conducted in 1.0ha area, involving 07nos. of farmers at Jamunasul, Nikhira(Baliapal). Highest yield 35.2q/ha obtained from TO2 i.e. Seed treatment with Tebuconazole @ 1.5 g/kg followed by furrow application of 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
* **Assessment of bio-priming in Green gram** - conducted in 2.0ha area, involving 10nos. of farmers at Ganja &Putura. Highest yield 7.3q/ha obtained from TO1:Bio-priming with liquid Rhizobium (5%). Soaking of seeds in double the volume of solution for 01hour followed by shade drying for 01 hour
* **Assessment of different Parasiticidal agents in controlling external parasites in grow-out carp culture system**- conducted in 2.0ha area, involving 10nos. of farmers at Baliapal. Highest yield 33.25 q/ha obtained from **TO2 :** Application of Ivermectin (paracure IV) @ 50 µg/kg feed through feed
* **Assessment of value added products of Tomato for income generation –** conducted at Gadsahi Baliapal (Jaleswar) involving 10nos. of farm women & it was recorded that 3.5kg tomato concentrate prepared from 10kg Tomato.

**Kharif, 2022**

* **Assessment of integrated management of red spider mite in pointed gourd** - conducted in 1.0ha area, involving 07nos. of farmers at Gadsahi (Jaleswar). Highest yield 208.1q/ha obtained from **TO1**: Removal of affected plant part + Spraying of water to break the webs + Need based application of Fenazaquin 10EC @ 1 ml/lit. followed by application of Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval
* Final Results from other OFTs are awaited

**Front Line Demonstration (FLD):**

KVK has conducted FLDs (09nos. during Rabi, 2021-22) & (06nos. during Kharif, 2022)

**SALIENT ACHIEVEMENTS OF MAJOR FLDS**

**Rabi, 2021-22**

* **Demonstration of herbicide in rice-groundnut cropping sequence -** conducted in 3.0ha area, involving 10nos. of farmers at Narayanpur&Betagadia (Baliapal). Highest rice equivalent yield of 123.11 q/ha obtained from “Bensulfuron methyl + Pretilachlor @ 10kg/ha in rice followed by hand weeding, Pre-emergence application of Oxyflurofen @ 850g/ha in groundnut followed by hand weeding”
* **Demonstration of crop diversification in Rice-Rice cropping system -** conducted in 2.0ha area, involving 10nos. of farmers at Gadsahi (Jaleswar). Highest rice equivalent yield 7.6q/ha obtained from Demonstration of rice- maize+cowpea (2+2) cropping system
* **Demonstration on management of purple blotch disease in onion-** conducted in 2.0 ha area, involving 10 nos. of farmers at Raidhenk, Basulidiga, Bishnupur (Baliapal). Highest yield 310.0 q/ha obtained from 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
* **Demonstration on IPM strategies against Spodopteralitura in Toria -** conducted in 2.0 ha area, involving 10 nos. of farmers at Raidhenk (Baliapal). Highest yield 9.56 q/ha (32.04% increase in yield) obtained from “Installation of pheromone trap for monitoring @ 5nos./ha + Fixation of bird perches for avian predation + Placement of Poison baits (10 Kg Rice bran + 1 Kg Jaggery+ 250ml LambadaCyhalothrin) + Need based Foliar application of Indoxacarb + Novaluron @ 625 ml/ ha in the evening hours”
* **Demonstration on integrated management for Thrips and mite in chilli-** conducted in 2.0 ha area, involving 10 nos. of farmers at Macharanka (Basta) &Gadsahi (Baliapal). Highest yield 68.8 q/ha obtained from “Soil application of Neem cake @2.5 qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/ltr&Spiromesifen 240SC @ 0.6ml/ ltr alternately at 10 days interval”.
* **Demonstration of water soluble fertilizer in black gram for higher seed yield -** conducted in 2.0 ha area, involving 20 nos. of farmers at Basulidiga (Basta) &Khalmuhani (Baliapal). Highest yield 8.7 q/ha obtained from “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” while only 6.4q/ha yield received from Basal application of N-P2O5-K2O@ 20:40:40kg/ha, No foliar application of nutrients.
* **Demonstration on Groundnut stripper –** conducted at Raidhenk (Baliapal) involving 10nos. of farmers. 35kg pod can be stripped per hour by using groundnut stripper while 15kg/hour groundnut can be plucked manually
* **Demonstration of value addition of prawn –** conducted at Agarpada (Basta), Kankadapal (Baliapal), Kirtania (Bhograi) involving 10nos. of farmers. 8.38kg prawn pickle prepared from 10kg prawn while only 2.46kg dried prawn prepared from 10kg prawn.

**Kharif-2022**

* **Demonstration of jute retting through use of CRIJAF Sona microbial Culture -**conducted in 2.0ha area, involving 10nos. of farmers at Raidhenk (Baliapal). Yield 20.2 q/ha obtained from Use of CRIJAF sona culture @ 25kg/ha for retting jute bundles after harvest
* **Demonstration of Production of paddy straw mushroom by use of crumple straw -** conducted involving 10nos. of farmers at Sugo (Jaleswar). Net profit of Rs 75/- bed is obtained from Mushroom production by using crumple paddy straw while RS 57/- bed recoded from Production of paddy straw mushroom by use of paddy straw

**CLUSTER FRONTLINE DEMONSTRATION (CFLD) – 2021-22**

* Cluster Frontline Demonstration in Groundnut – conducted in 10ha area, -involving 4nos. farmers of Narayanpur, Baliapal. 23.2q/ha yield obtained from Groundnut var. Dharani with package of practices

**OTHER EXTENSION ACTIVITIES:**

During 2021-22, other extension activities like Field day (05/290nos. farmer), KisanMela (01/180nos. farmer), Ex-trainees meet (01/30nos.), Workshop (04/120nos.), Seminar (01/50nos.), Animal health camp (02/172nos.), special day celebration (13/535nos.), Webcasting of programmes (03/175nos.) conducted.

**PLANTING MATERIALS PRODUCED**

During 2021-22, **60745nos.** of seedlings of Drumstick, Tomato, Brinjal, Chilli, Onion, Cauliflower, Cabbage &Knolkhol, **2450nos.** of Papaya seedlings, 535nos. of forest saplings, 1412nos. of mushroom spawn bottle, **2734nos**. of chicks, 9.5q vermicompost, 18.3kg earthworm, 329nos. of colour fish 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 2023-24. 09nos. of OFTs, 17nos. of FLDs, 81nos. of trainings for farmers and farm women, 17 nos. for rural youths and 10nos. 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.
* New Farmers hostel required
* Fund required for maintenance demo unit

KVK newsletter “The Shyamala” and 02nos. leaflets “*Soil Health Managemet*” & “*Value addition in fruits & Vegetables*” were released by the dignitaries during the occasion.

The meeting was concluded at 2.30PM with a warm vote of thanks by Dr. KamalakantaBehera, Scientist (Ag. Extension).

**LIST OF MEMBERS ATTENDED THE 26TH SCIENTIFIC ADVISORY COMMITTEE MEETING OF KVK, BALASORE ON 22.11.2022**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name** | **Designation and Address** | **Remarks** |
|  | Dr. A.K. Khuntia | JDE (Monitoring), DEE | Chairman |
|  | Dr. A. Haldar | Principal Scientist, ATARI-Kolkata | Member |
|  | Dr. B. Kabat | ADR, RRTTS, Ranital | Member |
|  | Mr. N.K. Rout | CDAO, Balasore | Member |
|  | Mr. Tapan Kumar Mohanty | DDH, Balasore | Member |
|  | Dr. BanamaliSahu | CDVO, Balasore | Member |
|  | Mr. SibaCharanJethy | PD, Watershed | Member |
|  | Jitendra Kumar Behera | DFO, Balasore | Member |
|  | SudamCharanNayak | Zonal Manager, OSSC, Balasore | Member |
|  | RaghunathMohapatra | Seed Certification Officer, Balasore | Member |
|  | Arun Kumar Dey | Deputy Executive Engineer (o/o Minor Irrigation), Balasore | Member |
|  | Tapas RanjanPradhan | DDM, NABARD, Balasore | Member |
|  | BiswajitSatapathy | LDM, UCO Bank, Balasore | Member |
|  | A.K. Singh | District Manager, OAIC Ltd | Member |
|  | Sanjay Kumar Dash | Progressive Farmer (Large), Bahanaga | Member |
|  | SukumarSamanta | Progressive Farmer (Small), Bhanreswar | Member |
|  | JayantiSahoo | Women Farmer | Member |
|  | ManjuraniKar | Women Farmer | Member |
|  | JayantaGiri | Progressive Farmer (adopted village Raidhenk) | Member |
|  | Ramakanta Das | APD, Watershed, Balasore | Invitee |
|  | Dr. Debi Prasad Das | Scientist (Soil Sc.), KVK, Bhadrak | Invitee |
|  | Anjan Kumar Dandapat | Farmer, Sahada, Basta | Member |
|  | Sri DhananjayaGiri | Farmer, Gadsahi, Jaleswar | Member |
|  | SwayampravaBal | AFO, Baliapal | Invitee |
|  | SarojPradhan | President, Sparsha NGO, Basta | Invitee |
|  | BrajagopalDasadhikari | President DNC NGO | Invitee |
|  | Badal Kumar Patra | Secretary, Mushroom federation, Balasore | Invitee |
|  | Bijay Kumar Mohanty | Entrepreneur, Bahanaga | Invitee |
|  | DrSwagatikaSahoo | Sr. Scientist & Head, KVK Balasore | Convenor |
|  | KamalakantaBehera | Scientist (Ag. Extension), KVK Balasore | Participant |
|  | Dr. GayatreeSahoo | Scientist (PP), KVK Balasore | Participant |
|  | Niroj Kumar Jena | Prog. Asst. (Seed Sc), KVK Balasore | Participant |
|  | LakshmikantMurmu | Farm Manager, KVK Balasore | Participant |
|  | Sri RaghunathSoren | Prog. Asst. (Computer), KVK Balasore | Participant |

2.a. District level data on agriculture, livestock and farming situation (2022)

|  |  |  |
| --- | --- | --- |
| **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 onl

2.b. Details of operational area / villages (2022)

| Sl.  No. | Name of Taluk | Name of the block | Name of the villages | Major crops  & enterprises | Major problems identified  (crop-wise) | Identified Thrust Areas |
| --- | --- | --- | --- | --- | --- | --- |
|  | Balasore | Bhograi | Kirtania | Tomato, Groundnut, Pisciculture | Low yield in groundnut & Tomato, Low fish Production | * Diversified cropping pattern * Integrated nutrient management * Feed management in fish pond |
|  | Balasore | Baliapal | Raidhenk | Paddy, Groundnut, Toria, Vegetables, Poultry | BPH in Paddy, Low yield in Toria& Tomato, Purple blotch in Onion, Desi poultry breed | * Varietal substitution * INM & IPM in Toria * INM in Tomato * IDM in Onion |
|  | Balasore | Sadar | Kasafal | Vegetables, Pisciculture | Low yield in vegetables, Loss of marine fish & Prawn | * Nutritional garden * Value addition of fish & Prawn |
|  | Balasore | Basta | Pathadurga | Paddy, Pulses, Poultry | Adoption of local varieties of rice, Low yield in pulses, desi poultry breed | * Introduction of new paddy variety * INM in Black gram * Poultry breed Kuroiler |
|  | Balasore | Jaleswar | Gadsahi-Baliapal | Paddy, Toria, Sesamum, Vegetables | Adoption of local varieties of rice, low yield of mustard& Sesamum | * Diversified cropping pattern * IPM in chilli, Brinjal * INM in Sesamum * Natural Farming |

2. c. Details of village adoption programme:

Name of the villages adopted by **PC and SMS**(2022-23) for its development and action plan

|  |  |  |
| --- | --- | --- |
| **Name of village** | **Block** | **Action taken for development** |
| Kirtania | Bhograi | Training, OFT, FLD, Awareness programme, Method demonstration |
| Raidhenk | Baliapal | Training FLD Awareness Programme on Schemes of Line Department, Soil Health Campaign |
| Kasafal | Sadar | Training, OFT, FLD, Exposure visit, Farmers Fair under JalshaktiAbhiyaan |
| Pathadurga | Basta | Training, FLD Field Day Awareness Programme, Soil Health Campaign |
| Gadsahi-Baliapal | Jaleswar | Training, OFT, FLD, Awareness, Natural Farming, |
| Baliapal | Saudi | Training, FLD, Field day, Awareness programme, |
| Baliapal | Jamunasol | Training, CFLD in Groundnut, Field Day, Awareness |

2.1 **Priority thrust areas**

|  |  |
| --- | --- |
| **Sl. No** | **Thrust area** |
| 1. | Early, medium, flood tolerant, protein rich high yielding rice varieties. |
| 2. | High yielding oilseeds cultivation technology. |
| 3. | Integrated Nutrient management in Pulse crops |
| 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. | Natural Farming |
| 12. | Technical support to FPOs/WSHGs/PGs |
| 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 |
| 7 | 7 | 57 | 12 | 0 | 0 | 0 | 31 | 9 | 43 | 0 | 52 | 16 | 16 | 155 | 32 | 12 | 0 | 1 | 79 | 31 | 99 | 16 | 155 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 75 | 81 | 2500 | 677 | 531 | 35 | 44 | 522 | 406 | 1234 | 991 | 2165 | 150 | 154 | 4500 | 2375 | 1870 | 236 | 65 | 1206 | 741 | 3817 | 2676 | 6605 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
| 15 | 17 | 133 | 106 | 1 | 0 | 107 | 28 | 231 | 144 | 375 | | 4500 | 6605 | 2375 | 1870 | 236 | 65 | 1206 | 741 | 3817 | 2676 | 6605 |

|  |  |  |  |
| --- | --- | --- | --- |
| Seed production (q) | | Planting material (in Lakh) | |
|  | |  | |
| Target | Achievement | Target | Achievement |
| **4.5** | **5.0** | **0.89500** | **0.65365** |

|  |  |  |  |
| --- | --- | --- | --- |
| Livestock strains and fish fingerlings produced (in lakh)\* | | Soil, water, plant, manures samples tested (in lakh) | |
|  | |  | |
| Target | Achievement | Target | Achievement |
| **0.05** | **0.08** | **0.00500** | **0.00322** |

* \* 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 | 01 | Online | 01 | 01 |  |  |  |
| Seminar/conference/ symposia papers | - |  |  |  |  |  |  |
| Books | - |  |  |  |  |  |  |
| Bulletins | - |  |  |  |  |  |  |
| News letter | 01 | 300 |  |  |  |  |  |
| Popular Articles | 03 | Online |  |  |  |  |  |
| Book Chapter | - | - |  |  |  |  |  |
| Extension Pamphlets/ literature | 06 | 5500 |  |  |  |  |  |
| Technical reports | 06 | 85 |  |  |  |  |  |
| Electronic Publication (CD/DVD etc) | 01 | 05 |  |  |  |  |  |
| TOTAL | 18 | 5890 |  |  |  |  |  |

**Achievements on technologies assessed and refined**

**OFT-1**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of climate smart rice varieties** |
| 2. | Problem diagnosed | Yield loss due to both submergence and drought prevailing during the same croppingseason |
| 3. | Details of technologies selected for **assessment**  (Mention either Assessed or Refined) | **TO1**It has short bold grain with a test weight of20.5 g having maturity duration of 140 days. It gives about 6.3 t ha-1 yield under normal condition and 4 t ha-1 under submergencewhile 2.9 t/ha under drought conditions.  **TO2** It has short bold grain with a test weight of 19.0 g having maturity duration of 139 days. It produces anaverage yield of 6.5 t ha-1 under normal condition and 4.3 t ha-1 under submergence while2.3 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 22.6 % 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.) |
| FP | 07 | 7.5 | 186 | 19.2 | 38 | 37.2 | 48000 | 70680 | 22680 | 1.47 |
| TO1 | 07 | 10.3 | 205 | 21.5 | 15 | 46.8 | 54000 | 88920 | 34920 | 1.65 |
| TO2 | 07 | 10.5 | 219 | 21.8 | 13 | 48.1 | 54000 | 91390 | 37390 | 1.69 |

Results: Cultivation of CR Dhan-802 increase the grain yield by 22.6 % as compare to the farmers existing variety as affected by flood during the cultivation

**OFT-2**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of Decomposer for in-situ residue management in Rice** |
| 2. | Problem diagnosed | Residue burning causes environmental pollution as well as decreasing soil microbial properties. |
| 3. | Details of technologies selected for **assessment**/refinement | **TO1**PUSA decomposer @ 4 capsules in 25 lit of water with 2 % jaggery solution and pulse powder for 1 ha. |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | **ICAR- IARI, 2020** |
| 5. | Production system and thematic area | Rice- Greengram/Blackgram (soil and water conservation) |
| 6. | Performance of the Technology with performance indicators | Period of decomposition, Soil organic matter content(Before and After), Ease of cultivation (1-5 Scale), Yield of Greengram |
| 7. | Final recommendation for micro level situation | Application of pusa decomposer helps in decomposition of remaining rice residues without any environmental negative impact |
| 8. | Constraints identified and feedback for research | The trial need to be replicated for its validation |
| 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:*

Problem definition: Residue burning causes environmental pollution as well as decreasing soil microbial properties.

Technology assessed: Assessment of Decomposer for in-situ residue management in Rice

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Ease of cultivation (1-5 scale) | Yield of Greengram  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| Organic carbon content before | Organic carbon content after | Period of decomposition |
| FP | 15 | 0.52 | 0.49 | - | 5 | 6.2 | 19500 | 31000 | 11500 | 1.58 |
| TO1 | 15 | 0.52 | 0.54 | 44 days | 2 | 7.5 | 17000 | 37500 | 20500 | 2.20 |

Results: use of pusa decomposer helps in ease for cultivation for next green gram crop and it easily decomposes the remaining rice straw residues after combine harvesting without any negative impact to environment

**OFT-3**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of management of wilt complex in Brinjal** |
| 2. | Problem diagnosed | Crop loss due to severe incidence of wilt disease |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | **FP:** Spraying with Streptocyclin @ 1gm per 10 lit water  **TO-I:** Seed treatment with *Pseudomonas fluorescens*(1g/100 gm seeds),Soil application of *T. viride @* 4kg enriched in 250kg FYM/ha, need based soil drench and foliar application of copper oxychloride 3gm/lit water.  **TO-II:**Seed treatment with Metalaxyl+Mancozeb 72% WP @ 2gm/kg +soil application of carbofuran @ 1kg/ha+ soil drenching of carbendazim 0.15%+ Streptocyclin 0.015% at 30 and 45 days after transplanting |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | **TO 1:** IIHR annual report 2016, **TO2:**SLREC Proc. , 2018 |
| 5. | Production system and thematic area | IDM |
| 6. | Performance of the Technology with performance indicators | Percent disease indices |
| 7. | Final recommendation for micro level situation | Seed treatment with *Pseudomonas fluorescens*(1g/100 gm seeds),Soil application of *T. viride @* 4kg enriched in 250kg FYM/ha, need based soil drench and foliar application of copper oxychloride 3gm/lit water. |
| 8. | Constraints identified and feedback for research | Market availability of *Trichidermaviridae* is a problem. |
| 9. | Process of farmers participation and their reaction | The farmers were very much satisfied with the technology |

*Thematic area:* Integrated Disease Management

Problem definition: crop loss due to severe incidence of wilt disease

Technology assessed: **Farmers Practice (FP):** Spraying with Streptocyclin @ 1gm per 10 lit water

**Technology option-I (TO-I):** Seed treatment with *Pseudomonas fluorescens*(1g/100 gm seeds),Soil application of *T. viride @* 4kg enriched in 250kg FYM/ha, need based soil drench and foliar application of copper oxychloride 3gm/lit water.

**Technology option-II (TO-II):**Seed treatment with Metalaxyl+Mancozeb 72% WP @ 2gm/kg +soil application of carbofuran @ 1kg/ha+ soil drenching of carbendazim 0.15%+ Streptocyclin 0.015% at 30 and 45 days after transplanting

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect indices (%) | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of fruits/ plant | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP | 07 | 7.6 |  |  | 53.8 | 182.56 | 120930 | 182600 | 61670 | 1.51 |
| TO-1 | 07 | 25.9 |  |  | 7.3 | 254.61 | 128600 | 254600 | 126000 | 1.98 |
| TO-II | 07 | 23.1 |  |  | 10.5 | 242.38 | 129700 | 242400 | 112700 | 1.87 |

Results: Seed treatment with *Pseudomonas fluorescens*(1g/100 gm seeds),Soil application of *T. viride @* 4kg enriched in 250kg FYM/ha, need based soil drench and foliar application of copper oxychloride 3gm/lit water.

**OFT-4**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of integrated management of red spider mite in pointed gourd** |
| 2. | Problem diagnosed | low yield due to infestation of red spider mite in pointed gourd |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | **Farmers Practice (FP):** Application of Dicofol @ 2ml/lit water  **Technology option-I (TO-I):** Removal of affected plant part + Spraying of water to break the webs + Need based application of Fenazaquin 10EC @ 1 ml/lit. Followed by application of Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval  **Technology option-II (TO-II):**Application of Neem cake @ 250 kg/acre. Application of Etoxazole 10 % SC @ 40 gm /ha |
| 4. | Source of Technology (ICAR/AICRP/SAU/other, please specify) | **TO 1:** OUAT annual report 2016, **TO2:** SLREC proceeding 2015 |
| 5. | Production system and thematic area | IPM |
| 6. | Performance of the Technology with performance indicators | Number of mites per unit leaf area |
| 7. | Final recommendation for micro level situation | Removal of affected plant part + Spraying of water to break the webs + Need based application of Fenazaquin 10EC @ 1 ml/lit. Followed by application of Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval |
| 8. | Constraints identified and feedback for research | Farmers were not awared about the use of new generation acaricides |
| 9. | Process of farmers participation and their reaction | The farmers were very much satisfied with the technology |

Thematic area: Integrated Pest Management

Problem definition: low yield due to infestation of red spider mite in pointed gourd

Technology assessed: **Farmers Practice (FP):** Application of Dicofol @ 2ml/lit water

**Technology option-I (TO-I):** Removal of affected plant part + Spraying of water to break the webs + Need based application of Fenazaquin 10EC @ 1 ml/lit. Followed by application of Fenpyroximate 5 EC @1 ml/ lit at 7-8 days interval

**Technology option-II (TO-II):**Application of Neem cake @ 250 kg/acre. Application of Etoxazole 10 % SC @ 40 gm /ha

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Mites per sq cm leaf area | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of fruits/ plant | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP | 07 | 6.8 |  |  | 5.8 | 167.3 | 157100 | 334600 | 177500 | 2.13 |
| TO-1 | 07 | 26.5 |  |  | 0.5 | 208.1 | 160700 | 416200 | 255500 | 2.59 |
| TO-II | 07 | 21.9 |  |  | 0.9 | 203.4 | 164100 | 406800 | 242700 | 2.48 |

Results: Seed treatment with *Pseudomonas fluorescens*(1g/100 gm seeds),Soil application of *T. viride @* 4kg enriched in 250kg FYM/ha, need based soil drench and foliar application of copper oxychloride 3gm/lit water.

**OFT-5**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of humidity/ moisture management for production of paddy straw mushroom** |
| 2. | Problem diagnosed | Low yield of paddy straw mushroom during summer season due to low humidity and rise in environmental temperature |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | TO1-Humidity management in paddy straw mushroom production unit by covering the ground /floor with moist sand and hanging wet gunny bag over the window/wall  TO2- Humidity management in paddy straw mushroom production unit with installation of fogger |
| 4. | Source of Technology (ICAR/AICRP/SAU/other, please specify) | CTMRT ,OUAT 2013  CTMRT ,OUAT 2015 |
| 5. | Production system and thematic area | Women empowerment through income generation |
| 6. | Performance of the Technology with performance indicators | %of humidity and yield per bed |
| 7. | Final recommendation for micro level situation | Installation of fogger is more profitable in summer season |
| 8. | Constraints identified and feedback for research | Initial fitting cost is high.it needs high water pressure |
| 9. | Process of farmers participation and their reaction | Farmers were highly satisfied as the labour ,time spent for watering the bed /floor etc reduced though the initial fitting cost is high |

Thematic area: women empowerment through income generation

Problem definition: low yield of paddy straw mushroom in summer

Technology assessed: Farmers Practice (FP): Cultivation of paddy straw mushroom with natural humidity

TO1-Humidity management in paddy straw mushroom production unit by covering the ground /floor with moist sand and hanging wet gunny bag over the window/wall

TO2- Humidity management in paddy straw mushroom production unit with installation of fogger

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Mites per sq cm leaf area | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| No. of fruits/ plant | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP |  |  |  |  |  | 550 | 65 | 99 | 34 | 1.52 |
| TO-1 | 2(400 beds) |  |  |  |  | 700 | 70 | 126 | 56 | 1.80 |
| TO-II | 2(200 beds) |  |  |  |  | 800 | 70 | 144 | 74 | 2.05 |

Results: Humidity management in paddy straw mushroom production unit with installation of fogger have higher yield

**OFT-6**

|  |  |  |
| --- | --- | --- |
| 1. | Title of On farm Trial | **Assessment of value added products from oyster mushroom for income generation** |
| 2. | Problem diagnosed | Low income from selling of raw oyster mushroom |
| 3. | Details of technologies selected for assessment/refinement | TO1-preparation of dried mushroom  TO2-preparation of mushroom pickle |
| 4. | Source of Technology (ICAR/AICRP/SAU/other, please specify) | TO1-KVK,palamau,2012  TO2-AICRP on PHT,CAET,OUAT,2018 |
| 5. | Production system and thematic area | Women empowerment through income generation |
| 6. | Performance of the Technology with performance indicators | TO1-1kg dried mushroom was prepared from 10 kg fresh oyster mushroom which was sold @550/-  TO2-6.5 kg mushroom was prepared out of 10kg fresh oyster mushroom which was sold @250/- |
| 7. | Final recommendation for micro level situation | It will be refined in next year for better result |
| 8. | Constraints identified and feedback for research | Marketing facilities are not plentily available ,linkage with Marketing agencies should be done |
| 9. | Process of farmers participation and their reaction | Members of WSHGS participated in the programme satisfactorily |

Thematic area: women empowerment through value addition

Problem definition:Low income from selling raw oyster mushroom

Technology assessed:

* + 1. Farmers Practice (FP):- Sale of raw oyster mushroom
    2. Technology option-I (TO-I): Preparation of dried mushroom: Soaking mushroom for 6-7hours in preservatives (0.6g potassium metabisulfite& 10g Citric acid per kg fresh mushroom diluted in 1litre normal water) followed by Sun drying for consecutive 03days
    3. Technology option-II (TO-II): Preparation of mushroom pickle: Soaking mushroom in turmeric powder for 10minutes followed by Sun drying for 4-5hours, Preparing pickle with addition of tamarind, Spices & preservatives

Table:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Technology option | No. of trials | Yield component | | | Disease/ insect pest incidence (%) | Yield/10kg fresh oyster mushroom | Cost of cultivation  (Rs/10 kg fresh muhroom | Gross return (Rs/10kg fresh mushroom) | Net return  (Rs/10 kg ) | BC ratio |
| No. of effective tillers/hill | No. of spikelet per panicle | Test wt. (100 grain wt.) |
| FP | 07 |  |  |  |  | 10kg | 225/- | 350 | 125 | 1.5 |
| TO1 | 07 |  |  |  |  | 1kg | 550/- | 550 | 120 | 1.6 |
| TO2 | 07 |  |  |  |  | 7.2kg | 850/- | 1800 | 950 | 2.1 |

Results: preparation of mushroom pickle helps in additional income generation through value addition

**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 | Low yield due to heavy mortality due to argulus infestation |
| 3. | Details of technologies selected for assessment/refinement  (Mention either Assessed or Refined) | * + 1. **Farmers Practice (FP):**Application of formalin     2. **Technology option-I (TO-I):** Pond application of Synthetic Pyrethroid like Deltamethrin (Delta guard) 2.8% @ 80 ml /acre-mt (4 times in weekly interval     3. **Technology option-II (TO-II):**Application of Ivermectin (paracure IV) @ 50 µg/kg feed through feed     4. **Technology option III (TO-III):** Application of CIFRI argcureDanav @ 200 ml per acre pond |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | TO-I: WBSFD, 2015, TO-II: CIFA, 2016, TO-III: CIFRI, 2020 |
| 5. | Production system and thematic area | Grow out culture of IMC & Production and Management |
| 6. | Performance of the Technology with performance indicators | % of survival, Avg body wt (kg), Plankton con. (ml/50 lit water), Yield Cost of operation (Rs/ha), Net income (Rs/ha), B:C ratio |
| 7. | Final recommendation for micro level situation | Technology option III (TO-III): Application of CIFRI argcureDanav @ 200 ml per acre pond |
| 8. | Constraints identified and feedback for research | Lack of awareness among the farmers regarding the use of latest technology |
| 9. | Process of farmers participation and their reaction | Farmers are actively participated in this programme& were satisfied with the results. |

Thematic area: Production and Management

Problem definition: Low yield due to heavy mortality due to argulus infestation

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 | | | Yield  (q/ha) | Cost of cultivation  (Rs./ha) | Gross return (Rs/ha) | Net return  (Rs./ha) | BC ratio |
| Avg body wt (kg) | Plankton con. (ml/50 lit water) | % of Recovery |
| FP | 07 | 0.54 | 1.7 | 43.24 | 32.65 | 210000 | 424450 | 214450 | 2.02 |
| TO-I | 07 | 0.73 | 1.8 | 85.32 | 36.22 | 230200 | 488970 | 258770 | 2.12 |
| TO-II | 07 | 8.52 | 2.1 | 91.10 | 40.87 | 252000 | 551900 | 299900 | 2.19 |
| TO-III | 07 | 0.87 | 2.2 | 91.18 | 41.24 | 268000 | 593200 | **325200** | **2.21** |

Results: Highest recovery & Yield is obtained through TO-III Application of CIFRI argcure@ 200 ml per acre pond

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 |  |
| 1 | Rice | Varietal evaluation | CR Dhan 311 has duration (120-125 days), semi-dwarf plant type, average grain yield is 4.3 t/ha and inOdisha 5.5 t/ha. Its protein contain in polished rice in 10.1% and Zn content is moderately high (20 ppm). | 1.25 | 1.25 | 4 | 0 | 0 | 0 | 6 | 0 | | 10 | 0 | 10 |  |
| 2 | Jute | Productivity enhancement | Use of CRIJAF sona culture @ 25kg/ha for retting jute bundles after harvest | 5 | 5 | 3 | 0 | 0 | 0 | 7 | 0 | | 10 | 0 | 10 |  |
| 3 | Green  gram | INM | STBR + seed coated with lime (CaCO3) @ 160g/kg seed | 6 | 6 | 0 | 0 | 0 | 0 | 10 | 0 | | 10 | 0 | 10 |
| 4 | Brinjal | Weed management | Poly mulching of plastic mulch with 60-75 micron (240-300 gauge) thickness | 1 | 1 | 0 | 0 | 0 | 0 | 10 | 0 | | 10 | 0 | 10 |  |
| 5 | Paddy | IDM | 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 | 01 | 01 |  |  | - |  | 10 | 0 | | 10 | 0 | 10 |  |

Details of farming situation

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil  (Kg/ha) | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
| N | P2O5 | K2O |
| Rice | Kharif, 2022 | Rice-rice (Irrigated) | Clay loam | 202 | 17.3 | 269 | Rice | 4.07.2022 | 15.10.2022 | 1296 | 28 |
| Jute | Kharif, 2022 | Jute- Toria (Irrigated) | Clay loam | 196 | 18.2 | 342 | Toria | 23.04.2022 | 04.09.2022 | 1352 | 32 |
| Greengram | Rabi, 2022-23 | Rice-Greengram (Irrigated) | Sandy loam | 282 | 17.8 | 301 | Rice | 03.01.2023 | 12.04.2023 | 324 | 05 |
| Brinjal | Rabi, 2022-23 | Rice- brinjal (Irrigated) | Sandy loam | 275 | 16.5 | 322 | Rice | 21.12.2023 | 16.04.2023 | 315 | 05 |
| Paddy | Kharif | RF | Alluvial | 195 | 17 | 263 | Paddy | 03.07.2022 | 11.12.22 | 1300 | 35 |

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 FL

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 | INM | **Demonstration of Bio fertilizer Consortia use in Sesamum** | 20 | 5.0 | 7.9 | 6.2 | 35.9 | 17000 | 39500 | 22500 | 2.32 | 15200 | 24800 | 9600 | 1.62 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

Pulses   
Frontline demonstration on pulse crops

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area  (ha) | Yield (q/ha) | | % Increase | \*Economics of demonstration (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Geengram | INM | STBR + seed coated with lime (CaCO3) @ 160g/kg seed | 20 | 6 | 7.4 | 6.3 | 14.86 | 17500 | 37000 | 19500 | 2.11 | 17000 | 31500 | 14500 | 1.85 |
|  |  |  |  |  |  | | | | | | | | | | |
|  | Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

\*\* BCR= GROSS RETURN/GROSS COST

Other crops

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Thematic area | Name of the technology demonstrated | No. of Farmer | Area  (ha) | Yield (q/ha) | | % change in yield | Other parameters | | \*Economics of demonstration (Rs./ha) | | | | \*Economics of check  (Rs./ha) | | | |
| Demons  ration | Check | Demo | Check | Gross  Cost | Gross  Return | Net Return | \*\*  BCR | Gross  Cost | Gross  Return | Net Return | \*\*  BCR |
| Rice | Varietal evaluation | CR Dhan 311 has duration (120-125 days), semi-dwarf plant type, average grain yield is 4.3 t/ha and inOdisha 5.5 t/ha. Its protein contain in polished rice in 10.1% and Zn content is moderately high (20 ppm). | 10 | 1.25 | 44.3 | 40.2 | 9.25 | 9.2 (Nos of EBT/ Hill) | 84 (Nos of EBT/ Hill) | 48500 | 85942 | 37442 | 1.77 | 48500 | 77988 | 29488 | 1.61 |
| Jute | Productivity enhancement | Use of CRIJAF sona culture @ 25kg/ha for retting jute bundles after harvest | 15 | 4 | 20.2 | 19.4 | 3.96 | 15 days for retting | 21 days for retting | 38750 | 57570 | 18820 | 1.48 | 37250 | 50440 | 13190 | 1.35 |
| Brinjal | Weed management | Poly mulching of plastic mulch with 60-75 micron (240-300 gauge) thickness | 10 | 1 | 326 | 272 | 16.5 | 72 % WCE | - | 312000 | 652000 | 340000 | 2.08 | 295000 | 544000 | 249000 | 1.84 |
| Geengram | INM | STBR + seed coated with lime (CaCO3) @ 160g/kg seed | 20 | 6 | 7.4 | 6.3 | 14.86 | 38 pods/ plant | 23 pods/ plant | 17500 | 37000 | 19500 | 2.11 | 17000 | 31500 | 14500 | 1.85 |
| Tomato | INM | Demonstration of Integrated Nutrient Management In Tomato | 10 | 2.0 | 420 | 320 | 31.25 | 10.5kg  fruit/plant | 8.0kg  fruit/plant | 135000 | 504000 | 369000 | 3.73 | 130000 | 384000 | 254000 | 2.95 |
| Paddy | IDM | 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 | 10 | 01 ha | 51.80 | 39.50 | 23.75 | EBT/ hill : 11.6 | EBT/ hill : 6.9 | 42230 | 77700 | 35470 | 1.84 | 37260 | 59250 | 21990 | 1.59 |
| Chilli | IPM | Soil application of Neem cake @2.5 qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/ltr&Spiromesifen 240SC @ 0.6ml/ ltr alternately at 10 days interval | 10 | 01 ha | 67.5 | 52.9 | 21.63 | Mite/ sq cm :  1.3  Thrips/ sq cm:  1.2 | Mite/ sq cm :  13.9  Thrips/ sq cm:  9.5 | 162260 | 337500 | 175240 | 2.08 | 154680 | 264500 | 109820 | 1.71 |
| Cucumber | IPM | Foliar application of Abamectin 1.9 EC @ 375 ml/ ha and Diafenthiuron 50 WP @ 500 g/ ha (on rotation) at 15days interval | 10 | 01 ha | 146.02 | 118.01 | 23.73 | Avgerage infected leaves/ plant (no.) :  1.3 | Avgerage infected leaves/ plant (no.) :  17.6 | 66060 | 146000 | 79940 | 2.21 | 68200 | 118000/ | 49880 | 1.73 |
| Bitter gourd | IPM | Seed treatment with Imidacloprid 600 FS @ 5 ml/ kg seed. + Soil application of Rynaxypyr 0.4 G @ 10 kg/ ha at 30 DAS + Yellow Sticky Trap at 2-3 leaf stage+ Alternate need based application of Flonicamid 50 WG @ 150 g/ ha and neem oil formulations (1500 ppm) @ 1.5 l/ ha + Foliar application of vegetable micronutrient mixture @ 2.5 g/ l of water twice at 15 days interval | 10 | 01 ha | 126.8 | 95.9 | 32.22 | % infected plant: 5.31 | % infected plant: 48.93 | 94630 | 190200 | 95570 | 2.01 | 88800 | 143850 | 55050 | 1.62 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 | Fish production | Demonstration of Amur carp for increasing fish production in poly-culture system | 10 | 10 | 43.46 | 36.31 | 19.7 | 1.05kg ABW | 0.78  Kg ABW | 246000 | 565000 | 276800 | 2.29 | 234600 | 472000 | 237400 | 2.01 |
| Mussels |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental fishes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (pl.specify) | Value addition | Demonstration of fish/prawn pickle from low cost marine fish | 10 | 10 | 2.48 | 8.64 | 248.39 | 2.6month | 6.5month+ | 3880 | 8640 | 4760 | 2.23 | 1300 | 2480 | 1180 | 1.91 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 |
| Paddy straw mushroom | Cultivation of paddy straw mushroom by use of crumple straw | 10 | 300beds | Yield/bed-800gm | Yield/ bed -850gm |  | Days of  Pin head appearance-8 to 10 days | Days of  Pin head appearance-8 to 10 days | 55 | 120 | 75 | 2.1 | 70 | 127 | 57 | 1.8 |
| Button mushroom |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermicompost |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sericulture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others (Value addition) | Preparation of tomato catchup for income generation | 10 | 10kg | Yield/10kg- |  |  | Self life-1 year | 5to 7days | 255 | 420 | 165 | 1.64 |  | 50 |  |  |
| 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 garden for nutritional security of farm family | 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** |
|  | Paddy | Use of seed treatment by P. fluorescence followed by spraying with the same and Tricyclazole effectively controlled the blast disease and this technology was easily and widely accepted by the farmers |
|  | Chilli | Due to use of new generation insecticides and acaricides along with use of blue sticky trap effectively managed the thrips and mite population in chilli crop and the said technology was widely accepted by the farmers |
|  | Tomato | Integrated application of Water soluble fertilizer NPK-19:19:19 along with combined praying of Zinc sulphate& Boron micronutrient helps in managing the micronutrient deficiency thereby increasing crop growth, higher no. of tomato per plant & yield. |
|  | Jute | Jute retting through the use of CRIJAF Sona reduce the time of retting along with good quality fibre which catches the good market price |
|  | Rice | Rice cultivar CR Dhan 311 is a good option to replace the short duration traditional cultivar to reduce the malnutrition of poor people |
|  | Greengram | Use of lime as seed coating increase the plant population along with better germination |
|  | Brinjal | Poly mulching in wider spaced crop like brinjal can effectively control the weed along with lower frequency of irrigation |

Extension and Training activities under FLD

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.No.** | **Activity** | **Date** | **No. of activities organized** | **Number of participants** | **Remarks** |
| 1. | Field days | 02.02.2023  23.02.2023 | 01  01 | 64  50 | INM in Tomato  Package of practices in Mustard |
| 03.12.2022 | 01 | 50 | Demonstration of BPH tolerant rice cultivar Hasanta |
|  |  | 09.12.2022 | 01 | 50 | Demonstration of pre emergence herbicide (Bensulfuronmethyl+pretilachlor) in transplanted rice |
| 2. | Farmers Training | 31.10.2022  16.12.2022  3.3.2023-5.3.2023 | 01  01  01 | 30  30  20 | INM in Tomato  INM in Tomato  Vermi-compost & vermin-wash production |
|  |  | 28.06.2022 & 04.02.2023 | 02 | 60 | Biofertified crops of different crops |
|  |  | 22.07.2022 | 01 | 30 | Agro-techniques of jute cultivation |
|  |  | 30.08.2022 | 01 | 30 | Integrated weed management in transplanted rice |
|  |  | 29.11.2022 & 09.03.2023 | 02 | 60 | Poly mulching: Away to conserve soil moisture as well as management of weeds |
| 3. | Media coverage | 17.7.2022  10.3.2023 | 01  01 | 20  250 | Vermi-compost production  Natural Farming |
| 4. | Training for extension functionaries | 11.01.2023-12.01.2023 | 01 | 20 | INM in Pulses & Oilseeds |
|  |  | 14.02.2023 to 15.02.2023 | 01 | 20 | Resource conservation technologies |

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif2022 and 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 | 19.5 | 19.35 | 18.08 | 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 | 25 | 10 | 25.8 | 21.4 | 23.2 | 1.9 | 2.05 | 3.32 |
| 2 | Green  gram | Kalimuga | 5.2 | 454 | 476 | 735 | * + - Line sowing     - Certified Seed of Green gram Var. Virat@ 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 Emmamectinbenzoate@ 1 g per 3litre water at pod formation stage for pod borer Management     - Application of Hexaconazole@ 2ml per 1lit water and use of yellow Sticky Trap@ 20 nos. per acre for management of whitefly | 25 | 10 | 7.23 | 6.21 | 7.03 | +32.03 | +28.74 | -10.03 |

1. **Economic parameters**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Variety demonstrated & Technology demonstrated | Farmer’s Existing plot | | | | Demonstration plot | | | |
| Gross Cost  (Rs/ha) | Gross return  (Rs/ha) | Net Return  (Rs/ha) | B:C  ratio | Gross Cost  (Rs/ha) | Gross return  (Rs/ha) | Net Return  (Rs/ha) | B:C  ratio |
|  | 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 | 60000 | 97500 | 37500 | 1.62 | 62000 | 118500 | 58500 | 1.97 |
|  | * + - Line sowing     - Certified Seed of Green gram Var. Virat@ 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 Emmamectinbenzoate@ 1g per 3litre water at pod formation stage for pod borer Management     - Application of Hexaconazole@ 2ml per lit water and use of yellow Sticky Trap@ 20 nos. per acre for management of whitefly | 15640 | 26000 | 10360 | 1.66 | 18145 | 36500 | 18355 | 2.01 |

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) |
|  | Groundnut  (Dharani) | 23758 | 17925 | 50 | 3845 | 1988 | Household expenses, Loan Repayment & next crop cultivation | 79 |
|  | Greengram  (Virat) | 745 | 520 | 50 | 145 | 80 | To mitigate daily requirement and investment for next crop etc. | 43 |

1. **Oilseed Farmers’ perception of the intervention demonstrated**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Technologies demonstrated  (with name) | Farmers' Perception parameters | | | | | |
| Suitability to their farming system | Likings  (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
|  | * 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 |
|  | * Package demonstration of Green gram | Best suited after Kharif Paddy | Application of Rhizobium culture & Boron | Yes | No | Yes | Critical input is not available in local market |

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

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Extension Activities organized** | **Date and place of activity** | **Number of farmer attended** |
|  | Selection of area and beneficiaries | 3.1.2023 Jamunasul | 40 |
|  | Soil collection | 6.1.2023Jamunasul | 25 |
|  | Awareness on seed treatment | 17.1.2023Jamunasul | 30 |
|  | Field visit for Disease pest monitoring | 1.2.2023Jamunasul | 20 |
|  | Field day | 31.3.2023Jamunasul | 50 |
|  | Selection of area and beneficiaries | 10.1.2023 Chhachina | 28 |
|  | Soil collection | 16.1.2023 Chhachina | 25 |
|  | Awareness on seed treatment | 10.2.2023 Chhachina | 30 |
|  | Field visit for Disease pest monitoring | 15.2.2023 Chhachina | 15 |
|  | Field day | 28.3.2023 Chhachina | 50 |

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

|  |  |
| --- | --- |
| CFLD Groundnut | CFLD Green gram |

1. **Farmers' training photographs**

|  |  |
| --- | --- |
|  |  |
| CFLD Groundnut | CFLD Green gram |

1. **Quality ActionPhotographs of field visits/field days and technology demonstrated.**

|  |  |
| --- | --- |
|  |  |
| CFLD Groundnut | CFLD Green gram |

**J. Details of budget utilization**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop | Items | Budget  Received(Rs.) | Budget  Utilization(Rs.) | Balance  (Rs.) |
| Groundnut | i) Critical input |  | 106961 |  |
| ii) TA/DA/POL etc. for monitoring |  | 2851 |  |
| iii) Extension Activities (Field day) |  | 5012 |  |
| iv)Publication of literature |  | 4137 |  |
|  | Total | **120000** | **118961** | **1039** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop | Items | Budget  Received  (Rs.) | Budget  Utilization  (Rs.) | Balance  (Rs.) |
| Green gram | i) Critical input |  | 73298 |  |
| ii) TA/DA/POL etc. for monitoring |  | 2851 |  |
| iii) Extension Activities (Field day) |  | 3949 |  |
| iv)Publication of literature |  | 0 |  |
|  | v) Audit |  | 1200 |  |
|  | Total | 90000 | 81298 | 8702 |

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

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 | 01 | 0 | 0 | 0 | 18 | 12 | | 30 | 0 | 0 | 0 | 18 | 12 | 30 |
| Soil & water conservation | 01 | 0 | 0 | 0 | 25 | 5 | | 30 | 0 | 0 | 0 | 25 | 5 | 30 |
| Integrated nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total | **02** | **0** | **0** | **0** | **43** | **17** | | **60** | **0** | **0** | **0** | **43** | **17** | **60** |
| **II. Horticulture** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Off0season vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery raising |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Exotic vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential vegetables |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Grading and standardization |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Protective cultivation |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (a) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **b) Fruits** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Training and Pruning |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Layout and Management of Orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Cultivation of Fruit |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of young plants/orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rejuvenation of old orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential fruits |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro irrigation systems of orchards |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Plant propagation techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (b) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **c) Ornamental Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of potted plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Export potential of ornamental plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Propagation techniques of Ornamental Plants |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (c) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **d) Plantation crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (d) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **e) Tuber crops** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (e) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **f) Spices** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and Management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (f) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **g) Medicinal and Aromatic Plants** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and management technology |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Post harvest technology and value addition |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total (g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Total(a-g) |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **III. Soil Health and Fertility Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil fertility management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated water management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated Nutrient Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Balance Use of fertilizer |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Soil & water testing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **IV. Livestock Production and Management** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Dairy Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Poultry Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Piggery Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rabbit Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Animal Nutrition Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Disease Management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Feed & fodder technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of quality animal products |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **V. Home Science/Women empowerment** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Household food security by kitchen gardening and nutrition gardening |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Design and development of low/minimum cost diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Processing & cooking |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Value addition | 02 | 00 | 28 | 28 | 00 | 32 | | 32 | 00 | 00 | 00 | 00 | 60 | 60 |
| Women empowerment |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Location specific drudgery reduction technologies |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Rural Crafts |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Women and child care |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others | 01 | 00 | 00 | 00 | 00 | 30 | | 30 | 00 | 00 | 00 | 00 | 30 | 30 |
| **Total** | **03** | **00** | **00** | **28** | **00** | **62** | | **62** | **00** | **00** | **00** | **00** | **90** | **90** |
| **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 | 01 | 5 | 2 | 7 | 20 | 3 | | 23 | 0 | 0 | 0 | 25 | 5 | 30 |
| Bio0control of pests and diseases |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| **Total** | **01** | **5** | **2** | **7** | **20** | **3** | | **23** | **0** | **0** | **0** | **25** | **5** | **30** |
| **VIII. Fisheries** |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing |  |  |  |  |  |  | |  |  |  |  |  |  |  |
| Composite fish culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Breeding and culture of ornamental fishes |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Portable plastic carp hatchery |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pen culture of fish and prawn |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Shrimp farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Edible oyster farming |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Pearl culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Fish processing and value addition |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others Feed Management | 01 | 0 | 0 | 0 | 9 | | 21 | 30 | 0 | 0 | 0 | 9 | 21 | 30 |
| **Total** | **01** | **0** | **0** | **0** | **9** | | **21** | **30** | **0** | **0** | **0** | **9** | **21** | **30** |
| **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 | 10 | 0 | 10 | 30 | | 0 | 30 | 0 | 0 | 0 | 30 | 10 | 40 |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs | 03 | 0 | 0 | 0 | 41 | | 19 | 60 | 0 | 0 | 0 | 41 | 19 | 60 |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermiculture | 01 | 14 | 0 | 14 | 6 | | 0 | 6 | 0 | 0 | 0 | 20 | 0 | 20 |
| Mushroom Production | 02 | 12 | 08 | 20 | 04 | | 16 | 20 | 00 | 00 | 00 | 16 | 24 | 40 |
| Beekeeping | 01 | 0 | 0 | 0 | 10 | | 10 | 20 | 0 | 0 | 0 | 10 | 10 | 20 |
| Sericulture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Value addition | 01 | 00 | 00 | 00 | 00 | | 20 | 20 | 00 | 00 | 00 | 00 | 20 | 20 |
| Small scale processing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Postharvest 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 | 01 | 0 | 0 | 0 | 0 | | 20 | 20 | 0 | 0 | 0 | 0 | 20 | 20 |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others Biofloc fish farming | 01 | 0 | 0 | 0 | 17 | | 0 | 17 | 0 | 0 | 0 | 17 | 0 | 17 |
| Entrepreneurship development | 01 | 0 | 0 | 0 | 0 | | 20 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| **Total** | **13** | **36** | **8** | **44** | **108** | | **105** | **193** | **0** | **0** | **0** | **134** | **123** | **257** |

**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 | 01 | 13 | 2 | 15 | 2 | | 2 | 4 | 0 | 1 | 1 | 15 | 5 | 20 |
| Integrated Pest Management | 01 | 17 | 01 | 18 | 01 | | 01 | 02 | 0 | 0 | 0 | 18 | 02 | 20 |
| Integrated Nutrient management | 01 | 19 | 0 | 19 | 1 | | 0 | 1 | 0 | 0 | 0 | 20 | 0 | 20 |
| Rejuvenation of old orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Women and Child care | 2 | 0 | 35 | 35 | 0 | | 05 | 05 | 00 | 00 | 00 | 00 | 40 | 40 |
| Low cost and nutrient efficient diet designing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Capacity building for ICT application | 01 | 15 | 5 | 20 | 0 | | 0 | 0 | 0 | 0 | 0 | 15 | 5 | 20 |
| Management in farm animals |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Other Recent advances in Feeding management in fish pond | 01 | 16 | 4 | 20 | 0 | | 0 | 0 | 0 | 0 | 0 | 16 | 4 | 20 |
| **Total** | **7** | **80** | **47** | **127** | **4** | | **8** | **12** | **0** | **1** | **1** | **84** | **56** | **140** |

**D) Farmers and farm women (off campus)**

| **Thematic Area** | **No. of Courses** | **No. of Participants** | | | | | | | | | **Grand Total** | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Other** | | | **SC** | | | **ST** | | |
|  | **M** | **F** | **T** | **M** | **F** | **T** | **M** | **F** | **T** | **M** | **F** | **T** |
| **I. Crop Production** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Weed Management | 03 | 7 | 0 | 7 | 50 | 3 | 50 | 19 | 11 | 30 | 76 | 14 | 90 |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems | 02 | 8 | 16 | 24 | 31 | 5 | 36 | 0 | 0 | 0 | 39 | 21 | 60 |
| Crop Diversification | 02 | 26 | 4 | 30 | 30 | 0 | 30 | 0 | 0 | 0 | 56 | 4 | 60 |
| Integrated Farming | 01 | 16 | 6 | 22 | 3 | 5 | 8 | 0 | 0 | 0 | 19 | 11 | 30 |
| Micro irrigation/irrigation |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 02 | 23 | 2 | 25 | 17 | 18 | 35 | 0 | 0 | 0 | 40 | 20 | 60 |
| Soil & water conservation | 01 | 16 | 4 | 20 | 6 | 4 | 10 | 0 | 0 | 0 | 22 | 8 | 30 |
| Integrated nutrient Management (SCSP) | 3 | 9 | 0 | 9 | 77 | 4 | 51 | 0 | 0 | 0 | 86 | 4 | 90 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others | 02 | 13 | 2 | 15 | 34 | 4 | 38 | 6 | 1 | 7 | 53 | 7 | 60 |
| Total | **16** | **118** | **34** | **152** | **248** | **43** | **258** | **25** | **12** | **37** | **391** | **89** | **480** |
| **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 | 02 | 35 | 8 | 53 | 4 | 2 | 6 | 1 | 0 | 1 | 50 | 10 | 60 |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Balance Use of fertilizer |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil & water testing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | **02** | **35** | **8** | **53** | **4** | **2** | **6** | **1** | **0** | **1** | **50** | **10** | **60** |
| **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 | 02 | 00 | 28 | 28 | 00 | 32 | 32 | 00 | 00 | 00 | 00 | 60 | 60 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing | 01 | 00 | 17 | 17 | 00 | 13 | 13 | 00 | 00 | 00 | 00 | 30 | 30 |
| Processing & cooking |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Value addition | 03 | 00 | 51 | 51 | 00 | 39 | 39 | 00 | 00 | 00 | 00 | 90 | 90 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery reduction technologies | 01 | 00 | 10 | 10 | 00 | 20 | 20 | 00 | 00 | 00 | 00 | 30 | 30 |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women and child care | 01 | 00 | 20 | 20 | 00 | 09 | 09 | 00 | 01 | 01 | 00 | 30 | 30 |
| Others | 06 | 00 | 84 | 84 | 00 | 66 | 66 | 00 | 30 | 30 | 00 | 180 | 180 |
| **Total** | **14** | **00** | **210** | **210** | **00** | **179** | **179** | **00** | **31** | **31** | **00** | **420** | **420** |
| **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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Postharvest Technology |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **VII. Plant Protection** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 05 | 49 | 3 | 52 | 80 | 12 | 92 | 06 | 0 | 6 | 135 | 15 | 150 |
| Integrated Disease Management | 01 | 27 | 0 | 27 | 3 | 0 | 3 | 0 | 0 | 0 | 30 | 0 | 30 |
| Bio0control of pests and diseases |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others | 01 | 14 | 8 | 22 | 3 | 5 | 8 | 0 | 0 | 0 | 17 | 13 | 30 |
| **Total** | **05** | **49** | **3** | **52** | **80** | **12** | **92** | **06** | **0** | **6** | **135** | **15** | **150** |
| **VIII. Fisheries** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing | 01 | 24 | 4 | 28 | 0 | 0 | 0 | 2 | 0 | 2 | 26 | 4 | 30 |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn | 01 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 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 | 01 | 0 | 20 | 20 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 30 | 30 |
| Water quality parameter related to fish growth | 01 | 0 | 0 | 0 | 17 | 13 | 30 | 0 | 0 | 0 | 17 | 13 | 30 |
| Soil & water quality management in fish pond | 01 | 17 | 1 | 18 | 10 | 2 | 12 | 0 | 0 | 0 | 27 | 3 | 30 |
| Disease management n fish pond | 01 | 0 | 1 | 1 | 0 | 29 | 29 | 0 | 0 | 0 | 0 | 30 | 30 |
| **Total** | **6** | **41** | **26** | **67** | **57** | **54** | **111** | **2** | **0** | **2** | **100** | **80** | **180** |
| **IX. Production of Input at site** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seed Production | 01 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Planting material production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production | 01 | 7 | 6 | 13 | 15 | 2 | 17 | 0 | 0 | 0 | 22 | 8 | 30 |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | **2** | **37** | **6** | **43** | **15** | **2** | **17** | **0** | **0** | **0** | **52** | **8** | **60** |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Group dynamics | 01 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| Formation and Management of SHGs | 01 | 0 | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0 | 0 | 30 | 30 |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths | 01 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| WTO and IPR issues |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others | 01 | 0 | 0 | 0 | 15 | 15 | 30 | 0 | 0 | 0 | 15 | 15 | 30 |
| **Total** | **4** | **0** | **0** | **0** | **75** | **45** | **120** | **0** | **0** | **0** | **75** | **45** | **120** |
| **XI. Agro forestry** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **GRAND TOTAL** | **49** | **280** | **287** | **577** | **479** | **337** | **783** | **34** | **43** | **77** | **803** | **667** | **1410** |

**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 |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermi-culture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| 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 | 03 | 7 | 0 | 7 | 50 | 3 | 50 | 19 | 11 | 30 | 76 | 14 | 90 |
| Resource Conservation Technologies |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cropping Systems | 02 | 8 | 16 | 24 | 31 | 5 | 36 | 0 | 0 | 0 | 39 | 21 | 60 |
| Crop Diversification | 02 | 26 | 4 | 30 | 30 | 0 | 30 | 0 | 0 | 0 | 56 | 4 | 60 |
| Integrated Farming | 01 | 16 | 6 | 22 | 3 | 5 | 8 | 0 | 0 | 0 | 19 | 11 | 30 |
| Micro irrigation/irrigation |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seed production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management | 3 | 23 | 2 | 25 | 35 | 30 | 65 | 0 | 0 | 0 | 58 | 32 | 90 |
| Soil & water conservation | 2 | 16 | 4 | 20 | 31 | 9 | 40 | 0 | 0 | 0 | 47 | 13 | 60 |
| Integrated nutrient Management | 3 | 9 | 0 | 9 | 77 | 4 | 51 | 0 | 0 | 0 | 86 | 4 | 90 |
| Production of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others | 02 | 13 | 2 | 15 | 34 | 4 | 38 | 6 | 1 | 7 | 53 | 7 | 60 |
| Total | **18** | **118** | **34** | **152** | **291** | **60** | **318** | **25** | **12** | **37** | **434** | **106** | **540** |
| **II. Horticulture** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **a) Vegetable Crops** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of low volume and high value crops |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Off-season 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 | 02 | 35 | 8 | 53 | 4 | 2 | 6 | 1 | 0 | 1 | 50 | 10 | 60 |
| Production and use of organic inputs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nutrient Use Efficiency |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Balance Use of fertilizer |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil & water testing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | **02** | **35** | **8** | **53** | **4** | **2** | **6** | **1** | **0** | **1** | **50** | **10** | **60** |
| **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 | 02 | 00 | 28 | 28 | 00 | 32 | 32 | 00 | 00 | 00 | 00 | 60 | 60 |
| Design and development of low/minimum cost diet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Designing and development for high nutrient efficiency diet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Minimization of nutrient loss in processing | 01 | 00 | 17 | 17 | 00 | 13 | 13 | 00 | 00 | 00 | 00 | 30 | 30 |
| Processing & cooking |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Value addition | 5 | 0 | 79 | 79 | 0 | 71 | 71 | 0 | 0 | 0 | 0 | 150 | 150 |
| Women empowerment |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery reduction technologies | 01 | 00 | 10 | 10 | 00 | 20 | 20 | 00 | 00 | 00 | 00 | 30 | 30 |
| Rural Crafts |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women and child care | 01 | 00 | 20 | 20 | 00 | 09 | 09 | 00 | 01 | 01 | 00 | 30 | 30 |
| Others | 06 | 00 | 84 | 84 | 00 | 66 | 66 | 00 | 30 | 30 | 00 | 180 | 180 |
| **Total** | **16** | **0** | **238** | **238** | **0** | **211** | **211** | **0** | **31** | **31** | **0** | **480** | **480** |
| **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 | 06 | 63 | 11 | 72 | 83 | 17 | 100 | 6 | 0 | 6 | 152 | 28 | 180 |
| Integrated Disease Management | 01 | 27 | 0 | 27 | 3 | 0 | 3 | 0 | 0 | 0 | 30 | 0 | 30 |
| Bio0control of pests and diseases |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of bio control agents and bio pesticides |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others | 01 | 14 | 8 | 22 | 3 | 5 | 8 | 0 | 0 | 0 | 17 | 13 | 30 |
| **Total** | **8** | **104** | **19** | **121** | **89** | **22** | **111** | **6** | **0** | **6** | **199** | **41** | **240** |
| **VIII. Fisheries** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated fish farming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carp breeding and hatchery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Carp fry and fingerling rearing | 01 | 24 | 4 | 28 | 0 | 0 | 0 | 2 | 0 | 2 | 26 | 4 | 30 |
| Composite fish culture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hatchery management and culture of freshwater prawn | 01 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 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 | 01 | 0 | 20 | 20 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 30 | 30 |
| Water quality parameter related to fish growth | 01 | 0 | 0 | 0 | 17 | 13 | 30 | 0 | 0 | 0 | 17 | 13 | 30 |
| Soil & water quality management in fish pond | 01 | 17 | 1 | 18 | 10 | 2 | 12 | 0 | 0 | 0 | 27 | 3 | 30 |
| Disease management n fish pond | 01 | 0 | 1 | 1 | 0 | 29 | 29 | 0 | 0 | 0 | 0 | 30 | 30 |
| Others Feed Management | 01 | 0 | 0 | 0 | 9 | 21 | 30 | 0 | 0 | 0 | 9 | 21 | 30 |
| **Total** | **7** | **41** | **26** | **67** | **66** | **75** | **141** | **2** | **0** | **2** | **109** | **101** | **210** |
| **IX. Production of Input at site** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Seed Production | 01 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 |
| Planting material production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-agents production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-pesticides production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio-fertilizer production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vermi-compost production | 01 | 7 | 6 | 13 | 15 | 2 | 17 | 0 | 0 | 0 | 22 | 8 | 30 |
| Organic manures production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of fry and fingerlings |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of Bee-colonies and wax sheets |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small tools and implements |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of livestock feed and fodder |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of Fish feed |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mushroom production |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apiculture |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | **2** | **37** | **6** | **43** | **15** | **2** | **17** | **0** | **0** | **0** | **52** | **8** | **60** |
| **X. Capacity Building and Group Dynamics** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leadership development |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Group dynamics | 01 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| Formation and Management of SHGs | 01 | 0 | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0 | 0 | 30 | 30 |
| Mobilization of social capital |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Entrepreneurial development of farmers/youths | 01 | 0 | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 30 | 0 | 30 |
| WTO and IPR issues |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others | 01 | 0 | 0 | 0 | 15 | 15 | 30 | 0 | 0 | 0 | 15 | 15 | 30 |
| **Total** | **4** | **0** | **0** | **0** | **75** | **45** | **120** | **0** | **0** | **0** | **75** | **45** | **120** |
| **XI. Agro forestry** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production technologies |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nursery management |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming Systems |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Others |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **XII. Others (Pl. Specify)** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **GRAND TOTAL** | **57** | **335** | **331** | **674** | **540** | **417** | **924** | **34** | **43** | **77** | **919** | **791** | **1650** |

**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 | 10 | 0 | 10 | 30 | | 0 | 30 | 0 | 0 | 0 | 30 | 10 | 40 |
| Seed production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production of organic inputs | 03 | 0 | 0 | 0 | 41 | | 19 | 60 | 0 | 0 | 0 | 41 | 19 | 60 |
| Planting material production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Vermiculture | 01 | 14 | 0 | 14 | 6 | | 0 | 6 | 0 | 0 | 0 | 20 | 0 | 20 |
| Mushroom Production | 02 | 12 | 08 | 20 | 04 | | 16 | 20 | 00 | 00 | 00 | 16 | 24 | 40 |
| Beekeeping | 01 | 0 | 0 | 0 | 10 | | 10 | 20 | 0 | 0 | 0 | 10 | 10 | 20 |
| Sericulture |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Repair and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Value addition | 01 | 00 | 00 | 00 | 00 | | 20 | 20 | 00 | 00 | 00 | 00 | 20 | 20 |
| 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 | 01 | 0 | 0 | 0 | 0 | | 20 | 20 | 0 | 0 | 0 | 0 | 20 | 20 |
| Fry and fingerling rearing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Others | 01 | 0 | 0 | 0 | 17 | | 0 | 17 | 0 | 0 | 0 | 17 | 0 | 17 |
| **Total** | 01 | 0 | 0 | 0 | 0 | | 20 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
|  | **13** | **36** | **8** | **44** | **108** | | **105** | **193** | **0** | **0** | **0** | **134** | **123** | **257** |

**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 | 01 | 13 | 2 | 15 | 2 | | 2 | 4 | 0 | 1 | 1 | 15 | 5 | 20 |
| Integrated Pest Management | 01 | 17 | 01 | 18 | 01 | | 01 | 02 | 0 | 0 | 0 | 18 | 02 | 20 |
| Integrated Nutrient management | 01 | 19 | 0 | 19 | 1 | | 0 | 1 | 0 | 0 | 0 | 20 | 0 | 20 |
| Rejuvenation of old orchards |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Protected cultivation technology |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Production and use of organic inputs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Care and maintenance of farm machinery and implements |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Formation and Management of SHGs |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Women and Child care | 2 | 0 | 35 | 35 | 0 | | 05 | 05 | 00 | 00 | 00 | 00 | 40 | 40 |
| Low cost and nutrient efficient diet designing |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Group Dynamics and farmers organization |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Information networking among farmers |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Capacity building for ICT application | 01 | 15 | 5 | 20 | 0 | | 0 | 0 | 0 | 0 | 0 | 15 | 5 | 20 |
| Management in farm animals |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Household food security |  |  |  |  |  | |  |  |  |  |  |  |  |  |
| Other | 01 | 16 | 4 | 20 | 0 | | 0 | 0 | 0 | 0 | 0 | 16 | 4 | 20 |
| **Total** | **7** | **80** | **47** | **127** | **4** | | **8** | **12** | **0** | **1** | **1** | **84** | **56** | **140** |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discipline | Clientele | Title of the training programme | Duration in days | Venue (Off / On Campus) | Number of participants | | | Number of SC/ST | | |
| Male | Female | Total | Male | Female | Total |
| Agronomy | F/W | Biofertified cultivars of different crops | 1 | Bhadua | 27 | 3 | 30 | 13 | 1 | 14 |
| Agronomy | F/W | Agro-techniques of Jute cultivation | 1 | Raidhenk | 29 | 1 | 30 | 7 | 0 | 7 |
| Agronomy | RY | Integrated farming system | 4 | On campus | 20 | 0 | 20 | 10 | 0 | 10 |
| Agronomy | F/W | Integrated weed management in transplanted rice | 1 | Kudimpal | 19 | 11 | 20 | 19 | 11 | 30 |
| Agronomy | F/W | Crop diversification in rice-rice cropping system | 1 | Jayrampur | 26 | 4 | 30 | 0 | 0 | 0 |
| Agronomy | F/W | Contingent crop planning | 1 | Machhadia | 19 | 11 | 30 | 3 | 5 | 8 |
| Agronomy | F/W | Crop intensification in rice fallow area | 1 | Kasafala | 9 | 21 | 30 | 1 | 5 | 6 |
| Agronomy | RY | Organic Farming | 5 | On campus | 20 | 0 | 20 | 20 | 0 | 20 |
| Agronomy | F/W | Poly-mulching: Moisture conservation & weed management | 1 | Mukulisi | 22 | 8 | 30 | 6 | 4 | 10 |
| Agronomy | IS | Resource conservation technologies | 2 | On campus | 15 | 5 | 20 | 2 | 2 | 4 |
| Agronomy | F/W | Integrated weed management in Groundnut | 1 | Aruaburti | 30 | 0 | 30 | 23 | 0 | 23 |
| Agronomy | F/W | Integrated crop management in oilseeds | 1 | Mankidia | 11 | 19 | 30 | 10 | 18 | 28 |
| Agronomy | F/W | Integrated crop management in fodder crops | 2 | On campus | 18 | 12 | 30 | 18 | 12 | 30 |
| Agronomy | F/W | Crop intensification in rice fallow area | 1 | CPbegunia | 30 | 0 | 30 | 30 | 0 | 30 |
| Agronomy | F/W | Crop diversification in rice-rice cropping system | 1 | N M Padia | 30 | 0 | 30 | 30 | 0 | 30 |
| Agronomy | F/W | Integrated weed management in transplanted rice | 1 | Tina | 27 | 3 | 30 | 27 | 3 | 30 |
| Agronomy | F/W | Biofertified cultivar of different crops | 1 | Chormara | 26 | 4 | 30 | 26 | 4 | 30 |
| Agronomy | F/W | Poly mulching: A way to conserve soil moisture and management of weed | 1 | On campus | 28 | 2 | 30 | 28 | 2 | 30 |
| Agronomy | RY | Organic farming | 3 | On campus | 20 | 0 | 20 | 20 | 0 | 20 |
| Agronomy | RY | Integrated Farming System | 3 | On campus | 11 | 9 | 20 | 11 | 9 | 20 |
| Seed Science | F/W | Seed production in Paddy | 01 | Sugo | 30 | 0 | 30 | 0 | 0 | 0 |
| Seed Science | F/W | INM in Paddy | 01 | Raibania | 30 | 0 | 30 | 1 | 0 | 1 |
| Seed Science | F/W | INM in Paddy | 01 | Pandrungi | 30 | 0 | 30 | 30 | 0 | 30 |
| Seed Science | F/W | INM in Tomato | 01 | Raidhenk | 20 | 10 | 30 | 4 | 2 | 6 |
| Seed Science | F/W | INM in Tomato | 01 | Kirtania | 30 | 0 | 30 | 25 | 0 | 25 |
| Seed Science | F/W | INM in Oilseed crops | 01 | Tina | 24 | 4 | 30 | 22 | 4 | 26 |
| Seed Science | F/W | Vermi-compost Production | 01 | Saudi | 22 | 8 | 30 | 15 | 2 | 17 |
| Seed Science | INS | INM in Pulse & Oilseed crop | 02 | ONC | 20 | 0 | 20 | 1 | 0 | 1 |
| Seed Science | RY | Vermicompost Production | 04 | ONC | 20 | 0 | 20 | 6 | 0 | 6 |
| Seed Science | RY | Vermicompost&Vermiwash Production | 03 | ONC | 10 | 10 | 20 | 10 | 10 | 20 |
| Fishery Science | F/W | Scientific yearling production | 01 | Katisahi | 26 | 4 | 30 | 2 | 0 | 2 |
| Fishery Science | F/W | Water quality parameter related to fish growth | 01 | Badapahi | 17 | 13 | 30 | 17 | 13 | 30 |
| Fishery Science | F/W | Soil & Water quality management in fish pond | 01 | Machhadiha | 27 | 3 | 30 | 10 | 2 | 12 |
| Fishery Science | F/W | Scientific dry fish production | 01 | Kasafala | 0 | 30 | 30 | 0 | 10 | 10 |
| Fishery Science | F/W | Polyculture of freshwater prawn with IMC | 02 | Kalaroi | 30 | 0 | 30 | 30 | 0 | 30 |
| Fishery Science | F/W | Disease management in fish pond | 01 | Rapeya | 0 | 30 | 30 | 0 | 29 | 29 |
| Fishery Science | F/W | Feed management in fish pond | 02 | On campus | 9 | 21 | 30 | 9 | 21 | 30 |
| Fishery Science | RYT | Biofloc fish farming | 03 | On campus | 17 | 0 | 17 | 17 | 0 | 17 |
| Fishery Science | RYT | Value addition of low cost marine fish & Shrimp | 03 | On campus |  |  |  |  |  |  |
| Fishery Science | INS | Recent advances in feeding management in fish pond | 02 | On campus | 16 | 4 | 0 | 0 | 0 | 0 |
| Plant protection | F/W | IPM in Brinjal | 01 | OFC | 28 | 2 | 30 | 7 | 1 | 8 |
| Plant protection | F/W | Management of mites in vegetables | 01 | OFC | 29 | 1 | 30 | 13 | 0 | 13 |
| Plant protection | F/W | IPM for BPH/ WBPH in paddy | 01 | OFC | 26 | 4 | 30 | 13 | 3 | 16 |
| Plant protection | F/W | Management of wilt in Brinjal | 01 | OFC | 30 | 0 | 30 | 3 | 0 | 0 |
| Plant protection | F/W | Pest management in organic vegetable cultivation | 01 | OFC | 17 | 13 | 30 | 3 | 5 | 8 |
| Plant protection | F/W | IPM in Solanaceous vegetables | 01 | OFC | 27 | 3 | 30 | 27 | 3 | 30 |
| Plant protection | F/W | IPM in tomato | 01 | OFC | 26 | 4 | 30 | 26 | 4 | 30 |
| Plant protection | F/W | IDM in summer vegetables | 01 | ONC | 25 | 5 | 30 | 20 | 3 | 23 |
| Plant protection | EF | Recent advances in IPM in paddy | 02 | ONC | 18 | 2 | 20 | 1 | 1 | 2 |
| Plant protection | RY | Scientific bee keeping | 03 | ONC | 10 | 10 | 20 | 10 | 10 | 20 |
| Home science | F/FW | Cultivation of paddy straw cultivation mushroom by use of crumple straw | 01 | off | 00 | 30 | 30 | 00 | 00 | 00 |
| Home science | R/Y | Mushroom cultivation | 04 | ONC | 12 | 08 | 20 | 00 | 00 | 00 |
| Home science | F/W | Use of azolla as cattle and poultry feed | 01 | off | 00 | 30 | 30 | 00 | 06 | 06 |
| Home science | F/W | Nutritional care of women doing moderate work | 01 | off | 00 | 30 | 30 | 00 | 10 | 10 |
| Home science | INS | Approaches in ensuring nutritional security | 02 | on | 00 | 20 | 20 | 00 | 03 | 03 |
| Home science | F/FW | Back yard rearing of improved breed of poultry bird | 02 | off | 00 | 30 | 30 | 00 | 30 | 30 |
| Home science | F/FW | Back yard rearing of improved breed of poultry bird | 1 | off | 00 | 30 | 30 | 00 | 30 | 30 |
| Home science | F/FW | Preparation of value added products from milk | 1 | off | 00 | 30 | 30 | 00 | 00 | 00 |
| Home science | R/Y | Mushroom cultivation for income generation | 04 | on | 04 | 16 | 20 | 04 | 16 | 20 |
| Home science | F/FW | Back yard rearing of improved breed of poultry bird | 04 | on | 00 | 30 | 30 | 00 | 30 | 30 |
| Home science | F/FW | Planning and lay out of nutritional garden | 01 | off | 00 | 30 | 30 | 00 | 05 | 05 |
| Home science | F/FW | Nutritional gardening for nutritional security | 02 | off | 00 | 30 | 30 | 00 | 27 | 27 |
| Home science | F/FW | Precooking methods for nutrients retention | 01 | off | 00 | 30 | 30 | 00 | 13 | 13 |
| Home science | F/FW | Oyster mushroom cultivation | 02 | off | 00 | 30 | 30 | 00 | 30 | 30 |
| Home science | F/FW | Preparation of value added products from oyster mushroom | 02 | on | 00 | 30 | 30 | 00 | 03 | 03 |
| Home science | R/Y | Preparation of value added products from milk | T03 | on | 00 | 20 | 20 | 00 | 20 | 20 |
| Home science | F/FW | Preparation of value added peoducts from vegetables | 02 | on | 00 | 30 | 30 | 00 | 29 | 29 |
| Home science | F/FW | Use of dal mill for pulse processing | 01 | off | 00 | 30 | 30 | 00 | 30 | 30 |
| Home science | F/FW | Use of women friendly implements for drudgery reduction | 01 | off | 00 | 30 | 30 | 00 | 20 | 20 |
| Home science | INS | Nutritional care for pre-schoolers | 02 | on | 00 | 20 | 20 | 00 | 02 | 02 |
| Home science | F/FW | Preparation of value added products from tomatoes | 01 | off | 00 | 30 | 30 | 00 | 19 | 19 |
| Home science | F/FW | Humidity management in paddy straw mushroom in paddy straw mushroom | 01 | ONC | 00 | 30 | 30 | 00 | 04 | 04 |
| Ag.Extn | F/FW | Income generation through agriculture and allied sector | 01 | Saudi | 30 | 00 | 30 | 30 | 00 | 30 |
| Ag.Extn | F/FW | Formation and Management of SHG | 01 | CPBegunia | 00 | 30 | 30 | 00 | 30 | 30 |
| Ag.Extn | F/FW | Use of ITK in Agriculture | 01 | Chormara | 15 | 15 | 30 | 15 | 15 | 30 |
| Ag.Extn | F/FW | Orientation and Awareness programme on FPO | 01 | Bhanreswar | 30 | 00 | 30 | 30 | 00 | 30 |
| Ag.Extn | RY | Rural Entrepreneurship development through income generating activities | 03 | ONC | 00 | 20 | 20 | 00 | 20 | 20 |
| Ag.Extn | IS | Market-led Agricultural Extension, Concept, Prospects and challenges | 02 | ONC | 15 | 05 | 20 | 00 | 00 | 00 |

## H) Vocational training programme for Rural Youth

## a) Details of training programme 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** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Postharvest 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 bio-agents, bio-pesticides, |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Bio-fertilizers 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, para-vet training |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Agricultural Extension** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Capacity building and group dynamics |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| **Grand Total** |  |  |  |  |  |  |  |  |  |  |  | |  |  |

**I) Sponsored Training Programme**

a) Details of Sponsored Training Programme

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.No** | **Title** | **Thematic area** | **Month** | **Duration (days)** | **Client** | **No. of courses** | **No. of participants** | **Sponsoring Agency** |
| PF/RY/EF |
|  | Mushroom cultivation for income generation | Income generation | August, 2022 | 02 | PF | 01 | 30 | ATMA |
|  | Freshwater prawn culture for higher income | Pisciculture | August, 2022 | 02 | PF | 01 | 30 | ATMA |
|  | Organic Farming | Organic farming | September, 2022 | 02 | PF | 01 | 30 | ATMA |
|  | Techniques of vermin-culture &Vermicomposting | Production of organic input | March, 2023 | 02 | PF | 01 | 28 | 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 | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Commercial production of vegetables | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Production and value addition | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Fruit Plants | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Ornamental plants | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Spices crops | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Soil health and fertility management | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Production of Inputs at site | 01 | 5 | 0 | 5 | 22 | 1 | 23 | 0 | 0 | 0 | 27 | | 1 | 28 |
| Methods of protective cultivation | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Other Organic farming | 01 | 29 | 0 | 29 | 0 | 0 | 0 | 1 | 0 | 1 | 30 | | 0 | 30 |
| Total | **2** | **34** | **0** | **34** | **22** | **1** | **23** | **1** | **0** | **1** | **57** | | **1** | **58** |
| **Postharvest technology and value addition** | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Other | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| **Farm machinery** | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Farm machinery, tools and implements | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Other | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Total | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| **Livestock and fisheries** | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Livestock production and management | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Animal Nutrition Management | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Animal Disease Management | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Fisheries Nutrition | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Fisheries Management | 01 | 28 | 2 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | | 2 | 30 |
| Other |  |  |  |  |  |  |  |  |  |  |  | |  |  |
| Total | **01** | **28** | **2** | **30** | **0** | **0** | **0** | **0** | **0** | **0** | **28** | | **2** | **30** |
| **Home Science** | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Household nutritional security | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Economic empowerment of women | 01 | 9 | 18 | 27 | 3 | 0 | 3 | 0 | 0 | 0 | 12 | | 18 | 30 |
| Drudgery reduction of women | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Other | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Total | **01** | **9** | **18** | **27** | **3** | **0** | **3** | **0** | **0** | **0** | **12** | | **18** | **30** |
| **Agricultural Extension** | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Capacity Building and Group Dynamics | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Other | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| **Total** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| **Grant Total** | **4** | **71** | **20** | **91** | **25** | **1** | **26** | **1** | **0** | **1** | **97** | | **21** | **118** |

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

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nature of Extension Activity** | **No. of activities** | **Farmers** | | | | **Extension Officials** | | | **Total** | | |
| **M** | **F** | **T** | **SC/ ST(% of total)** | **Male** | **Female** | **Total** | **Male** | **Female** | **Total** |
| Field Day | 09 | 277 | 180 | 457 | 80 | 32 | 45 | 77 | 309 | 225 | 534 |
| KisanMela | 08 | 480 | 652 | 1132 | 60 | 65 | 37 | 102 | 545 | 689 | 1234 |
| KisanGhosthi | - | - | - | - | -- | - | - | - | - | - | - |
| Exhibition | 08 | 480 | 652 | 1132 | 60 | 65 | 37 | 102 | 545 | 689 | 1234 |
| Film Show | 25 | 450 | 200 | 750 | 75 | 12 | 20 | 32 | 462 | 220 | 682 |
| Method Demonstrations | 05 | 39 | 35 | 74 | 130 | 2 | 6 | 8 | 41 | 43 | 84 |
| Farmers Seminar | 15 | 182 | 120 | 302 | 70 | 02 | 04 | 06 | 184 | 124 | 308 |
| Workshop | 04 | 107 | 13 | 120 | 45 | 01 | 04 | 05 | 108 | 17 | 125 |
| Group meetings | 13 | 55 | 8 | 63 | 40 | 8 | 3 | 11 | 63 | 11 | 74 |
| Lectures delivered as resource persons | 27 | 1143 | 365 | 1508 | 45 | 15 | 35 | 50 | 1158 | 400 | 1558 |
| Advisory Services | 57 | - | - | 49464 | 35 |  |  |  |  |  |  |
| Scientific visit to farmers field | 85 | 413 | 203 | 616 | 47 | 83 | 38 | 121 | 496 | 241 | 737 |
| Farmers visit to KVK | 12 | 1591 | 825 | 2416 | 35 | 32 | 12 | 44 | 1623 | 837 | 2460 |
| Diagnostic visits | 15 | 145 | 18 | 263 | 45 | 11 | 5 | 16 | 156 | 23 | 179 |
| Exposure visits | 4 | 65 | 47 | 112 | 270 | 8 | 3 | 11 | 73 | 50 | 123 |
| Ex-trainees Sammelan | - | - | - | - | - | - | - | - | - | - | - |
| Soil health Camp | - | - | - | - | - | - | - | - | - | - | - |
| Animal Health Camp | 01 | 22 | 3 | 25 | 100 | 4 | 4 | 8 | 26 | 7 | 33 |
| Agri mobile clinic | 15 | 134 | 26 | 160 | 40 | 3 | 1 | 4 | 137 | 27 | 164 |
| Soil test campaigns | 01 | 32 | 43 | 75 | 100 | 1 | 1 | 2 | 33 | 44 | 77 |
| Farm Science Club Conveners meet | 03 | 70 | 0 | 70 | 50 | 4 | 4 | 8 | 74 | 4 | 78 |
| Self Help Group Conveners meetings | 02 | 0 | 50 | 50 | 40 | 2 | 4 | 6 | 2 | 54 | 56 |
| MahilaMandals Conveners meetings | - | - | - | - | - | - | - | - | - | - | - |
| Celebration of Yoga Day) | 01 | 12 | 38 | 50 | 84 | 02 | 02 | 06 | 14 | 40 | 54 |
| Celebration of ICAR Foundation Day | 01 | 40 | 0 | 40 | 20 | 02 | 04 | 06 | 42 | 04 | 46 |
| Celebration of World Food Day | 01 | 15 | 30 | 45 | 100 | 02 | 04 | 06 | 17 | 36 | 53 |
| Celebration of RastriyaEktaDiwas | 01 | 02 | 28 | 30 | 10 | 02 | 04 | 06 | 04 | 32 | 36 |
| Celebration of World Soil day | 01 | 33 | 22 | 55 | - | 02 | 05 | 07 | 35 | 29 | 64 |
| KisanSammanDiwas | 01 | 11 | 19 | 30 | 100 | 02 | 04 | 06 | 13 | 23 | 36 |
| Sankalp Se Siddhi | - | - | - | - | - | - | - | - | - | - | - |
| Swatchta Hi Sewa | 01 | - | - | 12 | - | 06 | 06 | 12 | 06 | 18 | 24 |
| MahilaKisan Divas | 02 | - | 96 | 96 | 95 | - | - | - | - | 96 | 96 |
| Awareness prog. on Use of micronutrient in oilseed crop | 01 | 28 | 2 | 30 | 100 | 3 | 0 | 3 | 31 | 2 | 33 |
| Awareness on Vermi-compost use in pulse crops | 01 | 34 | 16 | 50 | 78 | 5 | 0 | 5 | 39 | 16 | 55 |
| Awareness on HarGharTiranga | 01 | 41 | 19 | 60 | 85 | 01 | 03 | 04 | 42 | 22 | 64 |
| Webcasting of PM KisanSamman Sammelan | 01 | 29 | 8 | 37 | 100 | 02 | 04 | 06 | 31 | 12 | 43 |
| Webcasting of PM KisanSammanNidhi | 01 | 36 | 04 | 40 | 10 | 02 | 04 | 06 | 38 | 08 | 46 |
| Total | **323** | **5966** | **3722** | **59364** | **67** | **381** | **303** | **686** | **6347** | **4043** | **10390** |

B. Other Extension activities

|  |  |
| --- | --- |
| Nature of Extension Activity | No. of activities |
|
| Newspaper coverage | 15 |
| Radio talks | 02 |
| TV talks | 07 |
| Popular articles | 03 |
| Extension Literature | 08 |
| Other, (Pala & Tableau under NF) | 05 |

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

***Village seed***

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

# *KVK farm*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop | Variety | Quantity of seed  (q) | Value  (Rs) | Number of farmers  to whom seed provided | | | | | | | |
|  |  |  |  | SC | | ST | | Other | | Total | |
|  |  |  |  | M | F | M | F | M | F | M | F |
| Finger millet | Arjun | 0.56 | 3453 |  |  |  |  |  |  |  |  |
| Toria | Sushree | Not processed | - |  |  |  |  |  |  |  |  |
| Grand Total |  |  |  |  |  |  |  |  |  |  |  |

# Production of planting materials by the KVK

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | ArkaVimal | 4586 nos. | 11465 | 17 | 5 | 7 | 2 | 22 | 15 | 46 | 22 |
| Cabbage | Pusa Drumhead | 2310 nos. | 5775 | 13 | 18 | 2 | 0 | 42 | 3 | 57 | 21 |
| Tomato | ArkaRakshak | 21486 nos. | 53715 | 42 | 23 | 14 | 16 | 58 | 16 | 114 | 55 |
| Brinjal | Blue Star | 3860 nos. | 9650 | 15 | 12 | 27 | 25 | 36 | 08 | 78 | 45 |
| Chilli | Daiya | 1300 nos. | 3250 | 06 | 08 | 17 | 10 | 06 | 02 | 29 | 20 |
| Onion | Agrifoundligt red | 27000 nos. | 2700 | 23 | 04 | 03 | 04 | 62 | 33 | 88 | 41 |
| Others ( Capsicum) | ArkaMohini | 500 nos. | 1250 | 02 | 05 | 0 | 03 | 06 | 11 | 08 | 19 |
| **Fruits** |  |  |  |  |  |  |  |  |  |  |  |
| Mango |  |  |  |  |  |  |  |  |  |  |  |
| Guava |  |  |  |  |  |  |  |  |  |  |  |
| Lime |  |  |  |  |  |  |  |  |  |  |  |
| Papaya | Red Lady | 2170 nos. | 54250 | 10 | 05 | 10 | 02 | 71 | 12 | 91 | 19 |
| Banana |  |  |  |  |  |  |  |  |  |  |  |
| Others | Arecanut (Mohit Nagar) | 353 nos. | 7060 | 0 | 0 | 03 | 0 | 18 | 04 | 21 | 04 |
| Ornamental plants | Marigold (Ceracol) | 1728 nos. | 2074 | 14 | 30 | 12 | 10 | 04 | 18 | 30 | 58 |
| Medicinal and Aromatic |  |  |  |  |  |  |  |  |  |  |  |
| Plantation |  |  |  |  |  |  |  |  |  |  |  |
| Spices |  |  |  |  |  |  |  |  |  |  |  |
| Turmeric | Roma | 32 kg | 1120 | 02 | 08 | 01 | 07 | 34 | 2 | 37 | 17 |
| Tuber |  |  |  |  |  |  |  |  |  |  |  |
| Elephant yams |  |  |  |  |  |  |  |  |  |  |  |
| Fodder crop saplings | Hy Napier (CO 4) | 1120 nos. | 1680 | 04 | 02 | 0 | 0 | 19 | 06 | 23 | 08 |
| Forest Species | Acacia, others | 1122 nos. | 4178 | 12 | 08 | 04 | 06 | 23 | 04 | 39 | 18 |
| Others, pl. specify |  |  |  |  |  |  |  |  |  |  |  |
| **Total** |  |  | **158167** | **160** | **128** | **100** | **85** | **401** | **134** | **661** | **347** |

**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 | 443.0kg | 6645 |  |  |  |  |  |  |  |  |
| Bio-pesticide |  |  |  |  |  |  |  |  |  |  |
| Bio-fungicide |  |  |  |  |  |  |  |  |  |  |
| Bio-agents (Earthworm) | 32 kg | 16000 | 20 | 01 | 02 | 02 | 22 | 04 | 44 | 07 |
| Others, (Vermicompost) | 443 kg | 6645 | 60 | 20 | 3 | 2 | 30 | 20 | 83 | 42 |
| 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 | 2694 | 203535 | 23 | 62 | 07 | 09 | 34 | 52 | 64 | 123 |
| Japanese Quail |  |  |  |  |  |  |  |  |  |  |  |
| Turkey |  |  |  |  |  |  |  |  |  |  |  |
| Emu |  |  |  |  |  |  |  |  |  |  |  |
| Ducks | Khaki Campbell | 830 | 53950 | 17 | 22 | 0 | 0 | 12 | 09 | 29 | 31 |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Piggery |  |  |  |  |  |  |  |  |  |  |  |
| Piglet |  |  |  |  |  |  |  |  |  |  |  |
| Hog |  |  |  |  |  |  |  |  |  |  |  |
| Others (Pl. specify) |  |  |  |  |  |  |  |  |  |  |  |
| Fisheries |  |  |  |  |  |  |  |  |  |  |  |
| Indian carp |  |  |  |  |  |  |  |  |  |  |  |
| Exotic carp | Color fish | 200 nos. | 1000 | 05 | 02 | 0 | 03 | 26 | 11 | 31 | 16 |
| Mixed carp |  |  |  |  |  |  |  |  |  |  |  |
| Fish fingerlings | IMC | 8000 nos. | 32000 | 12 | 03 | 0 | 0 | 11 | 03 | 23 | 06 |
| Spawn | PSM & Oyster | 1654 nos. | 29772 | 18 | 52 | 04 | 06 | 12 | 32 | 34 | 90 |
| Others (Mushroom) | PSM & Oyster | 84.5 kg | 6390 | 05 | 04 | 02 | 04 | 16 | 14 | 23 | 22 |
| Grand Total |  |  | **326647** | **80** | **145** | **13** | **22** | **111** | **121** | **204** | **288** |

**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 2022 |  |  |  |  |  |  |
| Rabi 2020-21 |  |  |  |  |  |  |
| Summer/Spring 2022 |  |  |  |  |  |  |
| Kharif 2022 |  |  |  |  |  |  |
| Rabi 2021-2022 |  |  |  |  |  |  |

iii) Financial Progress

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fund received  (2019-20, 2020-21, 2021-22 and 2022-23) | Expenditure (Rs. in lakhs) | | Unspent balance  (Rs. in lakhs) | Remarks |
| Infrastructure | Revolving fund |
| 2019-20 |  |  |  |  |
| 2020-21 |  |  |  |  |
| 2021-22 |  |  |  |  |
| 2022-23 |  |  |  |  |

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 weed, growth, yield and economics of summer greengram (Vignaradiata L.) in Balasore district of Odisha | P Giri, NK Jena, K Behera and AR Patra | 01 | The Pharma Innovation Journal |
| Seminar/conference/  symposia papers |  |  |  |  |
| Books |  |  |  |  |
| Bulletins |  |  |  |  |
| News letter | Shyamala | KVK, Balasore | 300 | Among farmers, line dept. officials, DEE |
| Popular Articles | 1. Jeevamrut: An organic fertilizer 2. Fertilizing for success Harnessing the benefit of Water Soluble fertilizer 3. Success story on mushroom cultivation | 1. N.K. Jena, 2. N.K. Jena, 3. N.K. Jena, PM Giri, KK Behera, AR Patra, S.Sahu, G. Sahoo | 1. Agro-bios Online Magazine 2. Times of Agriculture online magazine 3. Agro science today magazine | Online Circulation |
| Book Chapter |  |  |  |  |
| Extension Pamphlets/  literature | 1. Scientific Papaya Cultivation 2. Natural Farming-Leaflet 3. Natural Farming –Pamphlet 4. Low budget Natural Farming-Booklet 5. Backyard rearing of poultry breed 6. Value added products from fish | 1. N.K. Jena, PM Giri, KK Behera 2. Dr. G. Sahoo 3. Dr. G. Sahoo 4. Dr. G. Sahoo 5. Dr. A. Patra 6. Dr. S. Sahu | 1. 500 2. 500 3. 3000 4. 500 5. 500 6. 500 | Among farmers, line dept. officials, DEE |
| Technical reports | 1. APR, 2022 (ATARI) 2. APR, 2022-23 (DEE) 3. 26th SAC report 4. CFLD report (Pulse) 5. CFLD report (Oilseed) 6. Natural Farming report | * NK Jena, Prog. asst. (Seed Sc.) * KK Behera Scientist (Ag. Extension) * Dr. G. Sahoo | - | Among farmers, line dept. officials, DEE |
| Electronic  Publication (CD/DVD etc.) | 1. Folk dance on Natural farming | Dr. G. Sahoo | 01 | Among farmers, line dept. officials |
| 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 programme undergone by KVK personnel(SS&H)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of programme** | **Name of course** | **Name of KVK personnel and designation** | **Date and Duration** | **Organized by** |
|  | 5thInternational conference on Advances in Agriculture technology and allied sciences (ICAATAS 2022) | Advances in Agriculture technology and allied sciences | Dr. GayatreeSahoo, Scientist (Plant protection) | 4th and 5th June 2022 (Online) | CUAT, Odisha and LPU, Punjab |
|  | 18th AZRA International conference | Advances in applied zoological researches towards food, feed and nutritional security and safer environment | Dr. GayatreeSahoo, Scientist (Plant protection) | 10th to 12th Nov 2022 | AZRA |
|  | Natural farming workshop | Natural farming workshop | Dr. GayatreeSahoo, Scientist (Plant protection) | 3rd December 2022 | ICAR- ATARI |
|  | Training programme | Training programme on natural farming | Dr. GayatreeSahoo, Scientist (Plant protection) | 12th and 13th December 2022 | ICAR- ATARI |
|  | Refreshers training programme | IPM in horticultural crops | Dr. GayatreeSahoo, Scientist (Plant protection) | 16th to 18th January 2023 | DEE, OUAT, BBSR |
|  | International Conclave | International millet conclave | Dr. GayatreeSahoo, Scientist (Plant protection) | 2nd February 2023 | OUAT, BBSR |
|  | Workshop | Aromatic and Medicinal plants: Reconnecting the Agricultural heritage for health, nutrition and employment in India | Dr.Amita rani Patra (Scientist Home Science) | 8.9.2022  1day | ATARI,  KOLKATA and DEE,OUAT,BBSR |
|  | Training | Early childhood care for working women | Dr. Amita rani Patra (Scientist Home Science) | 7.2.2023 ,8.2.2023  2days | DEE,OUAT,BBSR |
|  | Strengthening KVK | Exposure visit | S.Shahu,SSH  A.R.Patra, PM.Giri | 19.3.23,20.3.23  2days | DEE,OUAT,BBSR |
|  | Workshop | Workshop on Collaborative training for Master trainers on FPO Management | Dr. K.Behera, Scientist(Ag. Extension) | 19.12.2022 to 21.12.2022(3 days) | DEE,OUAT,BBSR |
|  | CAFT Training | Food security and soil health management through agronomic interventions | Dr. PravamanjariGiri, Scientist (Agronomy) | 02.11.2022 to 22.11.2022  (21 days) | ICAR & GBPUAT, Pantnagar |
|  | Workshop on Natural Farming | Natural Farming | Dr. SwagatikaSahu, Sr. Scientist & Head | 15.2.2023-17.2.2023 | ICAR- ATARI, Kolkata |
|  | Workshop | Annual Zonal Workshop for KVKs | Dr. SwagatikaSahu, Sr. Scientist & Head | 27.5.2022-29.5.2022 | ICAR- ATARI, Kolkata |
|  | Workshop | Biennial National Conference of KVKs | Dr. SwagatikaSahu, Sr. Scientist & Head | 1.6.2022-2.6.2022 | ICAR |
|  | Workshop | SLREC | Dr. SwagatikaSahu, Sr. Scientist & Head | 28.6.2022-29.6.2022 | OUAT, Bhubaneswar |

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

**SUCCESS STORY-1**

|  |  |  |
| --- | --- | --- |
| Name of farmer | Panchanan Jena | |
| Address | Gosaipatna, Basta | |
| Contact details (Phone, mobile, email Id) | 9237123138 | |
| Landholding (in ha.) | 1.0ha | |
| Name and description of the farm/ enterprise | Vegetable Based Farming System  Integrated Management of Chilli Thrips & Mite | |
| Economic impact | The technology on Integrated Management of Chilli Thrips & Mite**(Soil application of Neem cake @2.5 qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/ltr&Spiromesifen 240SC @ 0.6ml/ ltr alternately at 10 days interval)** was demonstrated in this farmers field.  67.5q/ha yield is recorded in chillifrom the demonstration with 21.63% increase from Farmers practice. Also Net income generated from this technology is 175240/- with BC ration 2.08. | |
| Social impact | Farmers from nearby villages of Jaleswar, Baliapal, Basta also motivated & adopted the same technology for chilli thrips & mite management | |
| Environmental impact | As the technology combined the use of new generation insecticides & use of physical method pest management (blue sticky trap). Hence environmentally sustainable | |
| Horizontal/ Vertical spread | The technology has been spread over 100ha | |
| Good quality photographs (2-3) | C:\Users\user\Desktop\KVK\annual report\annual report 2022-23\chilli\20230130_153531.jpg | C:\Users\user\Desktop\KVK\annual report\annual report 2022-23\chilli\20230130_162024.jpg |

**SUCCESS STORY-2**

|  |  |  |  |
| --- | --- | --- | --- |
| Name of farmer | MrutynjayHazira | | |
| Address | At- Narayanpur, PO- Betagadia, Block- Baliapal | | |
| Contact details (Phone, mobile, email Id) | 9237437887 | | |
| Landholding (in ha.) | 1.25 ha | | |
| Name and description of the farm/ enterprise | Rice-Groundnut Cropping system, Beetle vine unit, 10 nos. of plantation crop (Coconut, Mango) | | |
| Economic impact | Application of herbicide Bensulfuronmethyl+pretilachlor @10 kg/ha at 3-7 days after transplanting in rice significantly increases the weed control efficiency and takes care of broad spectrum weeds in rice field upto 25 days. Weed control efficiency of 78.5 % is recorded in the applied field along with 28.6% increase in yield than traditional method of manual weeding and about 3500/- less cost involved in manual weeding. | | |
| Social impact | Weed in the initial crop growth reduces the yield of rice by more than 30 %, but due to this particular technology there is saving of labour cost for weeding operation along with drudgery reduction which impacted positively to the nearby rice growing farmers and they happily accepted the particular techlogy for weed control. | | |
| Environmental impact | This herbicide is safe for the environment and there is no toxicity effect to the crop. | | |
| Horizontal/ Vertical spread | This technology is adopted at large scale in most of the blocks of Balasore district involving 1800 farmers of about more than 8500 ha. | | |
| Good quality photographs (2-3) | C:\office 2021-22\office 2022-23\22-23 photo\rice herbicide demonstration and field day\IMG_20220905_160200.jpg | C:\office 2021-22\office 2022-23\22-23 photo\rice herbicide demonstration and field day\20220905_161320.jpg | C:\office 2021-22\office 2022-23\22-23 photo\rice herbicide demonstration and field day\IMG_20221209_152551.jpg |

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, Webcasting | KVK, Balasore | Training programme through Vieo conferencing in Zoom & Google meet |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Crop / Enterprise** | **ITK Practiced** | **Purpose of ITK** |
|  | Rice | Spraying of Rotten extracts of snail | To eradicate Gundhi bug |
|  | Rice | Spraying of cow dung slurry | To prevent grazing of cows into the crop field |
|  | Rice | Use of Tender coconut pieces | To control algal problem in paddy field |
|  | Brinjal | Sprinkling of ash | To eradicate Epilachna beetle |
|  | Pulse | Mixing of mustard oil | For safe storage & to avoid attack of pulse beetle |
|  | Field crop | Spraying of egg, washing powder solution | To avoid grazing by bull |

b. Give details of organic farming practiced by the farmer

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Crop / Enterprise | Area (ha)/ No. covered | Production | No. of farmers involved | Market available (Y/N) |
| 01 | Vegetable | 01 | 150 q/ha | 08 | 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 inSoiland 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 (inRs.) |
| Through mini soil testing kit/labs | Through soil testing laboratory | Total |  |  |  |
| 17 | 305 | 322 | 305 | 18 | 0 |

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 | Training and seminar on world soil health day | 55 | - | - | 55 | 55 |
| 02 | Method demonstration on Soil sampling for soil testing | 30 | - | - | 30 | 30 |

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** |
| Vanamohatsav Week | 01 | 30 | Forest plant |

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

|  |  |
| --- | --- |
| **No of student trained** | **No of days stayed** |
| 30 | 01 |

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

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

|  |  |  |
| --- | --- | --- |
| **Date** | **Name of the person** | **Purpose of visit** |
| 31.05.2022 | Sj. Pratap Chandra Sarangi, Hon’ble MP, Balasore | KisanMela under GaribKalyan Sammelan |
| 21.10.2022 | Niranjan Das, Assoc. Professor, OUAT  JayantaMahalik, Assoc. Professor, OUAT | Nematode infestation survey |
| 22.11.2022 | Prof. A.K.Khuntia, JD Monitoring, DEE, OUAT | 26th SAC Meeting |
| 18.01.2023 | Dr. B. R. Pillai, Pr. Scientist, ICAR-CIFA  Dr. Kanta Das Mahapatra, Pr. Scientist, ICAR-CIFA | Farmers’ Meet on “Improved Variety of Carp and Freshwater Prawn ForEnhancing Farmers’ Income” |
| 10.03.2023 | Sj. Pratap Chandra Sarangi, Hon’ble MP, Balasore | KisanMela for promotion of Natural Farming |
| 26.03.2023 | Prof. H.K. Patro, Dean, CA, OUAT, BBSR | KrishisanyatraMela |

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)** |
| Integrated management of chilli thrips and mite | 10 | 90% | 109820/- | 175240/- |
| Management of serpentine leaf miner in cucumber | 10 | 80% | 118000/- | 146000/- |
| Dual purpose poultry breed Kuroiler | 45 | 70% | 65000/- | 150000/- |
| Jute retting through use of CRIJAF Sona | 30 | 98 % | 57500/- | 95600/- |
| Pre emergence application of Bensulfuronmethyl+pretilachlor in transplanted rice | 20 | 95 % | 66000/- | 93800/- |
| Use of polythene mulch for weed control and moisture conservation in brinjal and other vegetables | 20 | 92 % | 124000/- | 188200/- |
| Cultivation of BPH tolerant rice cultivar Hasanta | 25 | 95 % | 78000/- | 98000/- |
| Foliar application of Water Soluble Fertilizer (NPK-18:18:18) | 20 | 45% | 38400/- | 52200/- |
| Use of micronutrient in Mustard | 30 | 55% | 22400/- | 31600 |
| Use of micronutrient & Water soluble fertilizer in Tomato | 15 | 60% | 384000 | 504000/- |

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

1. 4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

|  |  |
| --- | --- |
| **Horizontal spread of technologies** | |
| **Technology** | **Horizontal spread** |
| Integrated management of chilli thrips and mite | Farmers practised the technology over 100 ha area |
| Use of Yellow sticky traps to control Whitefly in Greengram crop | 150 ha |
| Rearing of Dual purpose poultry breed Kuroiler | 500 farmers/farmwomen |
| Cultivation of BPH tolerant rice cultivar Hasanta | 1400 ha |
| Jute retting through use of CRIJAF Sona | 75 ha |
| Pre emergence application of Bensulfuronmethyl+pretilachlor in transplanted rice | 8500 ha |
| Use of polythene mulch for weed control and moisture conservation in brinjal and other vegetables | 180 ha |
| Use of micronutrient in Mustard  NPK@ 50:25:25 kg/ha, Basal application of Sulphur@ 25 kg/ha + ZnSO4@ 5kg/ha & foliar spray of Boron(20%) @ 1.5g/ltr of water at 45DAS | 200ha |

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** |
|  | Dual purpose poultry breed Kadaknath | This technology is adopted by 450nos. | 265/- per bird net income in demo as against 150/-in FP |
|  | Cultivation of BPH tolerant rice cultivar Hasanta | Farmers are growing the ruling varieties which are subject to BPH/WBPH attack due to changing climate. But cultivation of Hasanta variety recorded negligible infestation of BPH and this technology is adopted by farmers in 1400 ha | About 26.8 % increase in yield recordedbut cultivation of this particular variety in BPH susceptible area |
|  | Jute retting through use of CRIJAF Sona | Use of CRIJAF Sona for jute retting improves the quality of Jute fibre as well as market price. The retting process takes 1 week less time than traditional jute retting method and it spreads about 75 ha area in jute growing blocks viz. Baliapal, Bhograi and Jaleswar | Though there is no significant difference in jute fiber yield but the fiber catches 1500/- extra price than the traditional type |
|  | Pre emergence application of Bensulfuronmethyl+pretilachlor in transplanted rice | Application of herbicide Bensulfuronmethyl+pretilachlor @10 kg/ha at 3-7 days after transplanting in rice significantly increases the weed control efficiency and takes care of broad spectrum weeds in rice field up to 25 days and is adopted by a wide scale of 8500 ha | Weed control efficiency of 78.5 % is recorded in the applied field along with 28.6% increase in yield than traditional method of manual weeding and about 3500/- less cost involved in manual weeding. |
|  | Foliar spray of water soluble fertilizers (N:P:K 19:19:19 @ 0.5% ) at 30 DAT + foliar application of micronutrient mixture (Borax 0.2% and ZnSO4 0.05%) at 45 DAT | Foliar spray of water soluble fertilizers (N:P:K 19:19:19 @ 0.5% ) at 30 DAT + foliar application of micronutrient mixture (Borax 0.2% and ZnSO4 0.05%) at 45 DAT increases crop growth, no. of fruits per plant (10.5kg/plant). | Yield improvement of 31.25% is recorded in the demonstration field than that of farmers practice |

4.4. Details of innovations recorded by the KVK

|  |  |
| --- | --- |
| Thematic area | Organic vegetable cultivation |
| Name of the Innovation | Vegetable cultivation in Vermi-compost Bag |
| Details of Innovator | Subrat Kumar Behera  AT/PO-Debendrapur, Bahanaga, Balasore |
| Back ground of innovation | Cultivation of seasonal vegetable crops directly in the vermicompost bag |
| Technology details | Collection of 20-30kg vermin-compost in a plastic/cotton bag, transplanting of seedlings of cauliflower, knolkhl, Tomato etc directly in the vermi-bag |
| Practical utility of innovation | Organic vegetable cultivation, Easy transportation of the bag during heavy rain/hailstorm, direct selling of the vermi-bag with the plant to the customer |

1. 4.5. Details of entrepreneurship development

|  |  |
| --- | --- |
| Entrepreneurship development | |
| Name of the enterprise | **Mushroom farming** |
| Name & complete address of the entrepreneur | KasturibalaPatra, At/po-Pratapur, Block –Baliapal, Dist-Balasore, Contact no-9583330571 |
| Role of KVK with quantitative data support: | * KVK has provided fogger system under OFT programme for management of humidity in mushroom production unit. It can spread to 200 no of paddy straw beds * In summer the yield /bed was 550 gram whereas after installation of fogger the yield is 800gram/bed * The net profit per bed was 34/- and BC Ratio was 1.52 but due to humidity management her net profit/bed is 74/- and BC Ratio is 2.05 |
| Timeline of the entrepreneurship development | Mrs. patra being also a bright student got married in 1985 when she was in classes eight only. From that day she was thinking to earn and supplement the family income. In 2004 she formed the Radharaniwshg and started making value added products from rice. Due to marketing problem it couldn’t be sustainable.During 2016 she came in contact with KVK and started preparing paddy straw mushroom bed for consumption of her own family. In 2018-19she had started commercial production after attending training programme at KVK, Balasore. Then. In the year 2021-22by the help of training certificate and project proposal of 5 lac, given by KVK, she was eligible to get loan of that amount from nearby bank.At present , she is earning on an avg Rs20,000/- per month |
| Technical Components of the Enterprise | Bed preparation of both paddy straw and oyster mushroom  Humidity and temperature management in production unit  Knowledge on good quality spawn |
| Status of entrepreneur before and after the enterprise | At primary stage she started growing mushroom in a farm of size 272sqft  Now, she is having another farm of size 2968sqft  She has purchased a mobile of Rs15,000 /-and gold Bangle of Rs 1,30,000/-  Paying Rs10,000 /- per month towards bank loan |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise): | In present condition she is preparing 40 paddy straw mushroom bed per day, on an avg 25 days in a month and engaged 2 laborers on monthly basis. There is huge demand of Paddy straw mushroom in local market, in case of oyster mushroom she takes help of middle man for selling. In last year kvk has imparted training on production of value added products from oyster mushroom and also conducted OFT to assess the income generated from different products |
| Horizontal spread of enterprise | 15no of farmers adopted mushroom cultivation from this entrepreneur  01no WSHG (Radha rani WSHG, pratapur)will start preparing oyster mushroom pickle |

4.6. Any other initiative taken by the KVK

5. LINKAGES

5.1. Functional linkage with different organizations

|  |  |
| --- | --- |
| **Name of organization** | **Nature of linkage** |
| Agriculture dept. | Soil health card scheme, DAESI training, NFSM, TRFA, ATMA, Training, Joint visit for BPH, Neck blast problem, Exposure visit |
| Horticulture dept. | QPM verification, Training, Field Day |
| Veterinary dept. | Animal health camp, Field Day, Kuroiler, Chick Procurement |
| OLM, Balasore | Training to WSHG Groups, Producer groups, Exposure visit |
| NABARD | Technical support for crop diversification Project & FPOs |
| IFFCO | PoshanMah |
| Fishery | Training programme |
| Watershed | Supply of Khaki Campbell duckling to dept. |
| Forestry | ECRICC project |

5.2. List of special programme undertaken during 2022by 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) Programme for infrastructure development

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of the programme/scheme | Purpose of programme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
| Natural farming | Outscaling of Natural farming through KrishiVigyanKendras | October 2022 | ICAR- ATARI | 10,68,000/- |

(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.)** |
| Mushroom cultivation for income generation | Residential training programme | August, 2022 | ATMA | 21000 |
| Freshwater prawn culture for higher income | Residential training programme | August, 2022 | ATMA | 24000 |
| Organic Farming | Residential training programme | September, 2022 | ATMA | 21000 |
| Techniques of vermin-culture &Vermicomposting | Residential training programme | March, 2023 | ATMA | 22520 |

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 |
|  | Vermi-compost unit | 2010-11 | 03nos. of tank | *Eiseniafoetida* | Vermi-compost | 443 kg | 2800 | 6645 |  |
|  | Shade-net unit | 2011-12 | 30x15ft | Seedlings and saplings | Planting materials | 67535 | 44946 | 157047 |  |
|  | Mushroom spawn production lab | 2010-11 | 01no. | Paddy straw and oyster | spawn | 1654 | 18600 | 29772 |  |
|  | Mushroom production unit | 2020-21 | 01nos. | Paddy straw and oyster | mushroom | 84.5 | 3750 | 6390 |  |
|  | Total |  |  |  |  |  |  |  |  |

* 1. 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 |
| Groundnut | 29.01.2023 | Not harvested | 0.02 | Dharani | Table purpose | - | - | - |  |
| Potato | 11.12.2022 | 18.03.2023 | 0.0.36 | Potato Cv AICRP-P-5-3, Potato Cv AICRP-P-81, Potato CvKufri Chipsona-1, Potato CvKufri Chipsona-3, Potato CvKufriJyoti, Potato Cv Balasore local | Tuber | 0.28 | 450 | 560 |  |

* 1. Performance of Production Units (bio-agents / bio-pesticides/ bio-fertilizers etc.,)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of the Product | Qty. (Kg) | Amount (Rs.) | | Remarks |
| Cost of inputs | Gross income |
| 1 | Earthworm | 32.0 | - | 16000 | Procured for SCSP from RF |

* 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 brooding unit | Kuroiler | 21dayold Chick | 2694 | 122336 | 203535 |  |
| 2 | Poultry brooding unit | Khaki Campbell | 21dayold duckling | 830 | 38455 | 53950 |  |
| 3 | Fisheries | RohicatlaMrigal | Yearling | 8000 | 8340 | 32000 |  |

* 1. Utilization of hostel facilities: Hostel is in damaged condition

Accommodation available (No. of beds)

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

(For whole of the year)

* 1. Utilization of staff quarters

Whether staff quarters has been completed:Yes

No. of staffquarters:04

Date of completion:2008

Occupancy details:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Months | Q I | QII | Q III | QIV |
| April, 2022-  March, 2023 | Dr. SwagatikaSahu,  SS&H | RaghunathSoren,  PA (Computer) | Debendranath Das,  Peon-cum-Watchman | Rajesh Kumar Behera  Driver |

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 - |
| Kharif | Rabi | Kharif | Rabi |
| Groundnut | - | 120000 | - | 118961 | 1039 |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April 2013 |
| Kharif | Rabi | Kharif | Rabi |
| Green Gram | - | 90000 | - | 81298 | 8702 |

* 1. Utilization of KVK funds during the year 2022-23(Not audited)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.No. | Particulars | Sanctioned | Released | Expenditure |
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 11009000 | 11009000 | 10193566 |
| 2 | Traveling allowances | 1,20,000.00 | 1,20,000.00 | 1,20,000.00 |
| 3 | HRD | 30,000.00 | 30,000.00 | 15,095.00 |
| 4 | Contingencies | | | |
| *A* | Stationary, telephone, postage and other exp. On office running | 2,80,000.00 | 2,80,000.00 | 2,79,973.00 |
| *B* | POLs. Repair of vehicles, tractor and equipment |
| *C* | Meals/refreshment of trainees/RY/EF | 2,10,000.00 | 2,10,000.00 | 2,09,991.00 |
| *D* | Training materials |
| *E* | Front line Demonstration except oilseeds and pulses | 1,05,000.00 | 1,05,000.00 | 78,481.00 |
| *F* | On-farm trials | 1,05,000.00 | 1,05,000.00 | 49,243.00 |
| *G* | SCSP Contingencies | 21,00,000.00 | 21,00,000.00 | 20,40,786.00 |
| TOTAL (A) | | **29,50,000.00** | **29,48,800.00** | **27,92,369.00** |
| B. Non-Recurring Contingencies | | | | |
| 1 | Library | 10,000.00 | 10,000.00 | 10,000.00 |
| 2 | Furniture & Equipment | 3,00,000.00 | 3,00,000.00 | 2,99,904.00 |
| 3 | IT | 50,000.00 | 50,000.00 | 49,910.00 |
| 4 | Boundary wall | 9,12,000.00 | 9,12,000.00 | 9,12,000.00 |
| TOTAL (B) | | **12,72,000.00** | **12,72,000.00** | **12,71,814.00** |
| **C. REVOLVING FUND** | | **0** | **0** | 258223 |
| **GRAND TOTAL (A+B+C)** | | **42,22,000.00** | **42,20,800.00** | **43,22,026.00** |

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) |
| 2018-19 | 5000/- | 179684 | 77,809/- | 1,01,875/- |
| 2019-20 | 3,50,000 | 1,80,000 | 75,000 | 455000 |
| 2020-21 | 5000 | 170000 | 80000 | 95000 |
| 2021-22 | 84364 | 185088 | 139027 | 0 |
| 2022-23 | 169228 | 481112 | 258223 | 192117 |

* 1. (i) Number of SHGs formed by KVKs**:-Nil**
  2. (ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities**:- 25**
  3. (iii) Details of marketing channels created for the SHGs**: -Linkage with ORMAS, Mission Shakti for marketing.. Also marketing of SHG products during various Farmers fair of KVKs & Line dept.**
  4. Joint activity carried out with line departments and ATMA

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Nameof activity** | **Number of activity** | **Season** | **With line department** | **With ATMA** | **With both** |
| Diagnostic field visit | 22 | Kharif and Rabi | 22 |  |  |
| QPM Verification | 01 | Rabi, 2022-23 | 01 | - | - |
| Residential training | 04 | Round the year | - | 04 |  |
| Animal Health Camp | 01 | Rabi, 2022-23 | 01 | - | - |
| Soil Lab verification | 01 | Rabi, 2022-23 | 01 | - | - |

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) |
| BPH/ WBPH | Paddy | October 2022 | 500 ha | 55% | 500 ha |
| Blast | Paddy | March 2022 | 250 ha | 40% | 310 ha |
| Thrips and mite | Chilli | December 2022 and January 2023 | 100 ha | 60% | 150 ha |
| Fruit shoot borer | Brinjal | August & Sept 2022 February 2023 | 200 ha | 70% | 300 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) |
| Argulosis disease in fish | IMC | - | 25 | - | 2.0 |

9.1. Nehru YuvaKendra(NYK) Training

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

9.2. PPV & FR Sensitization training Programme

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

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

|  |  |  |
| --- | --- | --- |
| Type of message | No. of messages | No. of farmers covered |
| Crop | 54 | 49464 |
| Livestock | 01 | 49464 |
| Fishery | 01 | 49464 |
| Weather | 01 | 49464 |
| Marketing | 01 | 49464 |
| Awareness | 03 | 49464 |
| Training information | 02 | 49464 |
| Other | 03 | 49464 |
| **Total** | 66 | 49464 |

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 | 10700 (kisanSarathi) |
| 3. | Mobile Apps developed by KVK | Nil |
| 4. | Name of the App | - |
| 5. | Language of the App | - |
| 6. | Meant for crop/ livestock/ fishery/ others | - |
| 7. | No. of times downloaded | - |

9.5. a. Observation of Swachh Bharat Programme

|  |  |
| --- | --- |
| Date/ Duration of Observation | Activities undertaken |
| 2.10.2022-31.02.2022 | Special cleaning of cleanliness & reducing pendency in Government |

b. Details of Swachhta activities with expenditure

|  |  |  |
| --- | --- | --- |
| **Activities** | **Number** | **Expenditure (in Rs.)** |
| 1. Digitization of office records/ e-office |  |  |
| 1. Basic maintenance | 01 | 1300 |
| 1. Sanitation and SBM |  |  |
| 1. Cleaning and beautification of surrounding areas |  |  |
| 1. Vermicomposting/Composting of biodegradable waste management & other activities on generate of wealth for waste | 01 | 16950 |
| 1. Used water for agriculture/ horticulture application |  |  |
| 1. Swachhta Awareness at local level |  |  |
| 1. Swachhta Workshops |  |  |
| 1. Swachhta Pledge |  |  |
| 1. Display and Banner | 02 | 630 |
| 1. Foster healthy competition |  |  |
| 1. Involvement of print and electronic media |  |  |
| 1. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | 30 | - |
| 1. No of Staff members involved in the activities | 13 | - |
| 1. No of VIP/VVIPs involved in the activities |  |  |
| 16. Any other specific activity (in details) |  |  |
| **Total** | **47** | **18880** |

9.6. Observation of National Science day

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

9.7. Programme with SeemaSurakshaBal/ 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 |
| UdayNarayan High School  Hasimpur, Baliapal | 03.12.2022 | 85students | Blackboard, Projector |

Give good quality 1-2 photograph(s)

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

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

9.10. Details of Swachhta Hi Surakshaprogramme organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 01 | Cleaning of village | 05 | 150 | - | - |

9.11. Details of MahilaKisan Divas programme organized

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
| 01 | Celebration of mahilakisandiwas | 03 | 46 | - | - |
| 02 | Women in Agriculture day | 04 | 50 | - | - |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Name of Farmer** | **Address of the farmer with contact no.** | **Innovation/ Leading in enterprise** |
|  | JayantaGiri | Raidhenk, Baliapal, 7894568842 | Banana Grower |
|  | HarendraGiri | Gadashi, Jaleswar, 8018835891 | Paddy, Toria, Vegetable |
|  | BhubanPramanik | NMpadia, Bhograi, 8917575594 | Pond based IFS |
|  | Bibhuticharan Das | Basulidiga, Basta - 9692967903 | Paddy, Pulses |
|  | KalicharanSahoo | Gopinathpur, Baliapal - 8280041980 | Hybrid seed production, IFS |
|  | Subala Chandra Khanda | Silasuan, Remuna - 8342099216 | Paddy, Vegetable |
|  | Subrat Kumar Kar | Guapada, Baliapal - 935135621706 | Mushroom |
|  | Indubala Pal | Kanhupenth, Baliapal - 8093506841 | Paddy, Potato, Mushroom |
|  | PradeepBhuyan | Katisahi, Baliapal - 8093450470 | Hybrid seed , Pisciculture |
|  | KasturibalaPatra | Pratappur, Baliapal -9583330571 | Mushroom Oyster Pickle |

9.13. Revenue generation

| **Sl.No.** | **Name of Head** | **Income(Rs.)** | **Sponsoring agency** |
| --- | --- | --- | --- |
|  | Revolving Fund | 2000 | NIGAM |
|  | Revolving Fund | 2000 | TATA Steel |
|  | Revolving Fund | 1000 | Veterinary dept. |
|  | Revolving Fund | 5000 | OLM |

9.14. Resource Generation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Name of the programme | Purpose of the programme | Sources of fund | Amount(Rs. lakhs) | Infrastructure created |
| 01 | Overhead Tank | Irrigation of KVK Farm | ATARI, Kolkata | 350000 | **Overhead Tank** |

9.15. Performance of Automatic Weather Station in KVK:-**No AWS at KVK, Balasore**

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

9.16. Contingent crop planning

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of the state | Name of district/KVK | Thematic area | Number of programmes organized | Number of Farmers contacted | A brief about contingent plan executed by the KVK |
| Odisha | Balasore | Contingent crop planning | 01 | 37 | Demonstration of climate resistant paddy var. CR Dhan 801, CR Dhan 802 |

10. Report on Cereal Systems Initiative for South Asia (CSISA):- **No CSISA prog.for 2022-23**

1. Year:
2. Introduction / General Information:

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

11. Details of TSP

1. Achievements of physical output under TSP during 2022-2023

|  |  |
| --- | --- |
| **Programme** | **Physical achievements** |
| Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.) |  |
| On-farm trials (Number) |  |
| Frontline demonstrations (Number) |  |
| Farmers training (in lakh) |  |
| Extension personnel training (in lakh) |  |
| Participants in extension activities (in lakh) |  |
| Seed production (in tonnes) |  |
| Planting material production (in lakh) |  |
| Livestock strains and fingerlings production (in lakh) |  |
| Soil, water, plant, manures samples testing (in lakh) |  |
| Provision of mobile agro – advisory to farmers (in lakh) |  |
| No. of otherprogrammes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.) |  |

1. Fund received under TSP in 2022-23 (Rs. In lakh):
2. Achievements of physical outcomeunder TSP during 2022-2023

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

1. Location and Beneficiary Details during 2022-2023

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

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

(Applicable for KVKs identified under NICRA): **NICRA Project is not operational at KVK, Balasore**

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 | 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 |
| 01 | Participation award | 2023 | KrishiJagaran& SBI | - | Best Exhibition stall at KrishiSanyatra |

Award received by Farmers from the KVK district

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of the Award** | **Name of the Farmer** | **Year** | **Conferring Authority** | **Amount** | **Purpose** |
|  | Best Farmer Award | Anita Mohanty | 2023 | KrishiJagaran& SBI |  | Best Farmer Award |
|  | Best Farmer Award | AratiSahu | 2023 | KrishiJagaran& SBI |  | Best Farmer Award |
|  | Best Farmer Award | UrmilaBehera | 2023 | KrishiJagaran& SBI |  | Best Farmer Award |
|  | Best Farmer Award | RinaraniMandal | 2023 | KrishiJagaran& SBI |  | Best Farmer Award |
|  | Best Farmer Award | MangaliniParida | 2023 | KrishiJagaran& SBI |  | Best Farmer Award |

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

Project on “Out scaling of Natural farming through KrishiVigyanKendras” is going on in KVK Balasore. This project is funded by ICAR-ATARI. The following activities have been conducted under this project.

* 09 nos. of awareness programme for farmers and farm women
* 01 no. of awareness programme for extension functionaries
* 01 no of training programme for farmers and farm women with 40 nos of beneficiaries
* 08 nos. of demonstrations in 2 ac area at Gadasahi village of Jaleswar block
* 01 no. of soil health campaign was conducted
* 01 no of exposure visit of the farmers was made.
* 02 nos. Folk dance (*Pala*) were performed before farming community for creating awareness
* Tableau showcasing the technology of Natural farming covered all 12 blocks of Balasore district

**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,,  Baliapal, Balasore, | Seed Production  Marketing | Paddy  Mustard | 1056 | - |  |
|  | Bhograi FPCL | (U01100OR2016PTC025221, Dated : 11.05.2016) | 11.05.2016  AT/PO-Soharia  PS-Bhograi BALASORE, | Marketing | Paddy,  Pulse | 300 |  |  |
|  | Darubrahma FPCL, Bhograi | 2022 | AT- Bichitrapur, Bhograi, Balasore | Marketing | Betel vine, Areca-nut, Coconut | 235 |  |  |
|  | Basta FPCL, Basta | 2022 | AT- Mukulsi, Basta, Balasore | Production & marketing | Fish production | 150 |  |  |

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 | Production of Fish & Prawn pickle | Fish/shrimp pickle is the preserved food item through either anaerobic fermentation in brine or immersion in vinegar. | Rs 4760/- per 10kg prawn | 25 | F:\2022-23\Photos, 2022-23\2FLD, 2022-23\Fishery\IMG20221015135915_01.jpg |
| 2 | Integrated management for Thrips and mite in chilli | Soil application of Neem cake @2.5 qt/ha, Installation of Blue sticky traps @50nos/ha, & need based application of Difenthiuron @1gm/ltr&Spiromesifen 240SC @ 0.6ml/ ltr alternately at 10 days interval | 337500/- | 50 | C:\Users\user\Desktop\KVK\annual report\annual report 2022-23\chilli\20230130_153531.jpg |
| 3 | Package of Practices in Mustard | NPK@ 50:25:25 kg/ha, Basal application of Sulphur@ 25 kg/ha + ZnSO4@ 5kg/ha & foliar spray of Boron(20%) @ 1.5g/ltr of water at 45DAS | 31600/- | 53 | E:\2022-23\Photos, 2022-23\9SCSP, 2022-23\Seed Sc\MUSTARD\3.jpg |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Database prepared/ covered for | | KVK level Committee | | Various activity conducted for farmers |
| Phase | Total no. of villages | Total no. of farmers | Date of formation | Name of members |
| I (up-to 15.03.2018) | 675 | 1814 |  |  |  |
| II (up-to 24.04.218) | 1370 | 4138 |  |
| Total | 2045 | 5992 |  |

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

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

1. a) Information on ASCI Skill Development Training Programme, if undertaken during 2022: No ASCI

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 2022

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

1. Information on NARI Project(if applicable):- Not 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 mainstreamingaddressed through the project |
|  |  |  |  |  |  |  |

1. Information on KrishiKalyanAbhiyanPhase-III, if applicable:Not applicable
2. **Training achievements**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of**  **KVK** | **Period** | **No. of Training on diversified farming practices for doubling farmers’ income organized** | **No. of farmers trained** | |
| **Male** | **Female** |
| 01.01.2022 to 31.12.2022 |  |  |  |

1. **Other achievements**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Particulars** | **January, 2022 to December, 2022** |
| 1 | Number of demonstrations other than oilseeds and pulses |  |
| 2 | Number of demonstrations on oilseed crops |  |
| 3 | Number of demonstrations on pulse crops |  |
| 4 | Number of farmers trained |  |
| 5 | Number of participants in Extension activities |  |
| 6 | Number of farmers for Mobile Advisory |  |
| 7 | Production of seeds (in quintal) |  |
| 8 | Production of planting material (Number) |  |
| 9 | Number of soil sample tested |  |
| 10 | Number of farmers covered in Climate Resilient villages |  |
| 11 | Number of farm families covered in Farmer FIRST project |  |
| 12 | ARYA project: Number of youth trained |  |
| 13 | ARYA project: Number of entrepreneurial activities started |  |
| 14 | Number of farm families in DFI villages |  |

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** |
|  | JalshaktiAbhiyaan | 27.07.2022 | Mathani | Training Programme | 50 |
| 28.10.2022 | KVK campus | Training Programme | 50 |
|  | KisanMela under JalshaktiAbhiyaan | 14.11.2022 | Kasafal | Farmers Fair | 150 |
|  | Pump Technician | 13.03.2023 | KVK campus | Awareness, Capacity building | 70 |

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



OFT on climate smart rice varieties – CR Dhan 802 OFTonArgulosis management in IMC OFT on management of wilt complex in Brinjal



FLD on Protein rich Paddy var. CR Dhan 311 FLD on INM in Tomato FLD on Nutritional garden for Improving Nutritional Security



PoshanDiwas -2022 World Soil Day -2022 World Food Day-2022



RY training on Vermicomposting Farmer Fair under GaribKalyan Sammelan JalshaktiAbhiyaan

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