**Indian Council of Agricultural Research**

**Agricultural Technology Application & Research Institute**

**Zone-VII, Umiam, Meghalaya**

**Annual Progress Report**

**2022 (January-December)**

**Name of the KVK: MOKOKCHUNG State: NAGALAND**

**Host Organization: DEPARTMENT OF AGRICULTURE**

**Government of Nagaland**

**KRISHI VIYGYAN KENDRA**

(Agricultural Technology Application Research Institute)

Mokokchung: Nagaland, Pin: 798601

Post Box-23, E-mail: [kvkmokokchung@gmail.com](mailto:kvkmokokchung@gmail.com)

**ANNUAL REPORT OF KVKS 2022 (January- December)**

1. GENERAL INFORMATION ABOUT THE KVK

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

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Telephone | | E mail |
|  | Office | FAX |  |
| KVK Yisemyong  Post Box No-23  Mokokchung Nagaland-798601 | 0369-2225121 | 0369-2225121 | [kvkmokokchung@gmail.com](mailto:kvkmokokchung@gmail.com) |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Address | Telephone | | E mail |
| Office | FAX |  |
| Directorate of Agriculture  Nagaland Kohima | 0370-2243116 | 0370-2243970 | agrkvk@yahoo.com |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Telephone / Contact | | |
|  | Residence | Mobile | Email |
| Dr. Keviletsu Khate | Yisemyong | 7085879890 | keviletsu@gmail.com |

1.4. Year of sanction: 2003

1.5. Staff Position

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Category (SC/ST/  OBC/  Others) |
| 1 | Sr. Scientist & Head | Dr. Keviletsu Khate | Sr. Scientist & Head | Vety & A.H | 162300 |  | 16.08.10 | ST |
| 2 | Subject Matter Specialist | Dr.Sarendi Walling | ACTO | Animal science | 85800 |  | 19.02.07 | ST |
| 3 | Subject Matter Specialist | Martha Chakruno | ACTO | Entomology | 85800 |  | 19.02.07 | ST |
| 4 | Subject Matter Specialist | Tokiho Achumi | ACTO | Agronomy | 85800 |  | 20.02.07 | ST |
| 5 | Subject Matter Specialist | Imtisenla | ACTO | Agronomy | 85800 |  | 31.05.07 | ST |
| 6 | Subject Matter Specialist | Imtilemla | ACTO | Soil science | 85800 |  | 11.11.07 | ST |
| 7 | Subject Matter Specialist | Khekali Sema | ACTO | Horticulture | 85800 |  | 11.07.08 | ST |
| 8 | Programme Assistant | Moainla | Programme Assistant | Horticulture | 60400 |  | 24.05.06 | ST |
| 9 | Computer Programmer | I.Tangitla | Programme Assistant(Computer) | BLIS | 60400 |  | 24.05.06 | ST |
| 10 | Farm Manager | Ilika V Achumi | Programme Assistant Farm manager | Horticulture | 58600 |  | 19.02.07 | ST |
| 11 | Superintendent / Accountant | Kiyelu Chophy | Office Supt-cum-Accountant | Account | 56900 |  | 15.02.07 | ST |
| 12 | Stenographer | Imosangla | Jr. Steno-cum-Computer Operator | PU | 40400 |  | 01.06.06 | ST |
| 13 | Driver | Supongmeren | Driver | Matriculate | 32300 |  | 01.06.06 | ST |
| 14 | Driver | Jongpongyanger | Driver | Matriculate | 29600 |  | 01.03.10 | ST |
| 15 | Supporting staff | Imkonglemla | Peon | Matriculate | 24900 |  | 01.06.06 | ST |
| 16 | Supporting staff | Aotoshi | Chowkidar | Matriculate | 21500 |  | 01.03.10 | ST |
|  | Total | 16 |  |  |  |  |  |  |

Note: No column in the table must be left blank

1.6. a. Total land with KVK (in ha) :23.27

b. Total cultivable land with KVK (in ha): 22

c. Total cultivated land (in ha):7.5

|  |  |  |
| --- | --- | --- |
| S. No. | Item | Area (ha) |
| 1 | Under Buildings | 1.46 |
| 2. | Under Demonstration Units | 1.5 |
| 3. | Under Crops (Cereals, pulses, oilseeds etc.) (Pl. specify separately)  i.Cereal-Millets  ii.Pulses –beans,soybean  iii. Toria | 2 |
| 4. | Under vegetables | 2 |
| 5. | Orchard/Agro-forestry | 1 |
| 6. | Others (specify) coffee plantation | 1 |

1.7. Infrastructural Development:

A) Buildings

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| S.  No. | Name of building | Source of  funding | Stage | | | | | |
| Complete | | | Incomplete | | |
| Completion  Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area  (Sq.m) | Status of construction |
| 1. | Administrative Building | ICAR | 20.06.09 | 400 | 53.5 lakhs | 28.09.07 | 400 | completed |
| 2. | Farmers Hostel | NA | NA | NA | NA | NA | NA | NA |
| 3. | Staff Quarters (6) | ICAR | NA | 200 |  | 2011 | 100 | Completed |
| 4. | Demonstration Units (2) | ICAR, Host & ATMA | 2008 &2010 | 40 | 24,55,500 lakh | 2008 &2013 | - | Completed |
| 5 | Fencing | ICAR | NA | 7500mtr | 3.5 lakhs | 2011 | - | Completed |
| 6 | Rain Water harvesting system | ICAR | 30.09.11 | 800mtr | 17.0 lakhs | 2011 | - | Completed |
| 7 | Threshing floor |  |  |  |  |  |  |  |
| 8 | Farm godown |  |  |  |  |  |  |  |

B) Vehicles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type of vehicle** | **Regd. No.** | **Year of purchase** | **Cost (Rs.)** | **Total kms. Run** | **Present status** |
| Bolero | NL-10 C0679 | 2016 | 8.0 Lakhs | 1300 | Good |

C) Equipments& AV Aids

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.no** | **Name of the equipments** | **Year of purchase** | **Cost (Rs.)** | **Present status** |
| 1 | Computer | 2004, 2016 | 70000 | 2004 unserviceable |
| 2 | Sound system | 2005 | 60000 | Good |
| 3 | Digital camera | 2020 | 50000 | Good |
| 4 | OHP | 2004 | 5000 | Good |
| 5 | Laptop Asus | 2022 | 45000 | good |
| 6 | Handycam | 2008 | 16,000 | Out of order |
| 7 | Photocopier | 2010 | 1,20,000 | Unserviceable |
| 8 | Handycam | 2010 | 18,000 | Good |
| 9 | Computer | 2010 | 45,000 | Good |
| 10 | LCD projector | 2020 | 55,000 | Good |
| 11 | Computer | 2016 | Provided by Host | Good |
| 12 | Computer | 2016 | -do- | Good |
| 13 | Cannon EOS 15000 with Extra Lens | 2020 | 43000 | good |
| 14 | Sony VPL-DX221 LCD Projector HDMI | 2020 | 34500 | Good |
| 15 | Microtek 2300 VA 24 volt | 2021 | 10500 | good |
| 16 | MI Smart TV 4K (65’) | 2022 | 68000 | good |
| 17 | Weight Balance50 kg | 2022 | 9000 | good |
| 18 | Brush cutter 2 stroke | 2022 | 8000 | good |
| 19 | Garmin E-Trex 20X | 2022 | 21500 | good |
| 20 | IK -109 Oven Universal & equipments | 2022 | 44306 | good |
| 21 | Soil moisture indicator | 2022 | 11243 | good |
| 22 | Computer Lenova Idea center 2nos | 2022 | 68000 | good |
| 23 | Printer canon G2010 | 2022 | 12800 | good |
| 24 | TP- Link Router | 2022 | 4950 | Good |
| 25 | Epson ECO Tank Printer | 2023 | 14700 | good |
| 26 | HP Slim SO1 Desktop | 2023 | 51000 | good |
| 27 | Zebronics UPS | 2023 | 2200 | good |
| 28 | Canon G3010 Printers | 2023 | 15700 | good |

1.8. A). Details SAC meeting\* conducted in 2022

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Name and Designation of Participants | Salient Recommendations | Action taken on last SAC recommendation |
| 21st Jan 2022 | 1. Temsuinla Jamir, Jt. Director SARS 2. Dr. Sanen Jamir VS, Vety 3. Ruokuosietuo, DSCO 4. Tmtitemsu, A.O (Agri) 5. Tekasangla Ozukum HEA, 6. Yutsung Imchen, DO (AIR) 7. Meyatoshi Aier (Farmer) 8. Dr. Keviletsu Khate (Sr. Sc &Head KVK) | 1. ITK may be included in management of bird problems 2. Extension of Jhum years through cultivation of legume crops in the third year 3. Promote green manuring crops in TRC/WRC in order to increase rice production 4. Studies on chemical castration may be tried to see the effectiveness | Successfully conducted. |

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

2. DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

|  |  |
| --- | --- |
| Sl.no | Farming system/enterprises |
| 1. | Agriculture +Horticulture |
| 2. | Agriculture + Veterinary |
| 3. | Agriculture + Fishery |

2.2 Description of Agro-climatic Zone & major agro-ecological situations (based on soil and topography)

|  |  |  |
| --- | --- | --- |
| Sl. No | Agro-climatic Zone | Characteristics |
| **1.** | Mid Tropical hill Zone | **Hot and humid in the foot hills to moderate in the mid and high with heavy rainfall during summer** |
| **Moderate to extreme cold and dry in higher altitude during winter** |

2.3 Soil types

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No | Soil type | Characteristics | Area in ha |
| 1. | Sandy clay loam | 20-35% clay  28% silt  45% more sand  pH 4-5 | 1,20,000 |
| 2. | Clay Loam | 27-40% clay  20-45% sand  Medium organic matter  pH 4-5 | 40,000 |
| 3. | Forest Soil | Broad leaves rain forest, evergreen, temperate climate, high organic matter, dark brown soil with pH 4 | 50 |

2.4. Area, Production and Productivity of major crops cultivated in the district

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No | Crop | Area (ha) | Production (ton) | Productivity (Qtl /ha) |
| A |  |  |  |  |
| 1. | Jhum Paddy | 8294 | 18247 | 22 |
| 2. | WTRC Paddy | 2420 | 7744 | 32 |
| 3. | Maize | 575 | 1260 | 22 |
| 4. | Beans | 98 | 132 | 13.5 |
| 5. | Pea | 78 | 125 | 16 |
| 6. | Rapeseed/ Mustard | 103 | 98 | 9 |
| 7. | Potato | 158 | 917 | 65 |
| 8. | Tapioca | 213 | 4579 | 215 |
| 9. | Orange | 1739 | 59126 | 340 |
| 10. | Banana | 1155 | 71610 | 620 |
| 11. | Litchi | 970 | 24250 | 250 |
| 12. | Pineapple | 820 | 13284 | 162 |
| 13. | Tomato | 38 | 9880 | 2600 |
| 14. | Chilli | 76 | 5099.6 | 671 |

2.5. Weather data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | Rainfall (mm) | Temperature 0 C | | Relative Humidity (%) |
|  |  | Maximum | Minimum |  |
| January’21 | 0.12 | 14.9 | 7.4 | 61.74 |
| February’21 | 0.21 | 14.86 | 7.61 | 57.57 |
| March’21 | 2.15 | 20.825 | 11.096 | 64.29 |
| April’21 | 1.78 | 25.52 | 14.23 | 68.1 |
| May’21 | 8.1 | 24.75 | 14.53 | 67.58 |
| June’21 | 12.76 | 32.64 | 18.50 | 79.466 |
| July’21 | 13.19 | 25.258 | 18.887 | 82.838 |
| August’21 | 10.16 | 27.04 | 20.406 | 81.516 |
| September’21 | 12.126 | 27.99 | 21.126 | 80.1 |
| October’21 | 2.06 | 27.009 | 18.819 | 78.74 |
| November’21 | 0.006 | 23.21 | 14.04 | 71.9 |
| December’21 | 0.43 | 19.13 | 9.6 | 65.96 |

* 1. Production and productivity of livestock, Poultry, Fisheries etc. in the district

|  |  |  |  |
| --- | --- | --- | --- |
| Category | Population | Production | Productivity |
| Cattle | | | |
| *Crossbred* | 726 | 520 MT | 3.5 lit/day lactation period of 270 days |
| *Indigenous* | 265 | 1 | 120kg in 12 months |
| *Crossbred* | 23900 | 1787.2 MT | 110 kg in 12 months |
| Goats | 415 | 972 kg | 10-14 kg per year |
| Pigs |  |  |  |
| *Crossbred* | 23900 | 1787.2 MT | 110 kg in 12 months |
| poultry | | | |
| Hens | - | - | - |
| *Desi* | 156750 | 83.8MT | 1 Kg in 6months |
| *Improved* | 18000 | 10MT | 1.5 kg in one month |
| Fish | | | |
| *Marine* |  |  |  |
| *Inland* | 408.50 ha | 1534 MT | 2581.5 kg/ha |

Note: Pl. provide the appropriate Unit against each enterprise

2.7 Details of Operational area / Villages (2021)

| Sl.  No. | Taluk/ Eleka | Name of the block | Name of the village | Major crops & enterprises | Major problem  Identified | Identified thrust area |
| --- | --- | --- | --- | --- | --- | --- |
| 1 |  | Ongpangkong (N) | Longkhum,Longsa,Mokokchung | Paddy, Maize, Tapioca  Ginger, Passion fruit Tea, Piggery, Poultry, weaving | Low productivity due to non adoption of improved technology, Majority of the farmers involved in cultivation of mix crops, lack of awareness on potentialities of floriculture, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, lack of proper infrastructure and marketing network | Create awareness on fallow management and jhum intensification, Cultivation of both kharif and rabi vegetables, production of passion fruit, ginger, tapioca, tea on commercial scale, popularization of floriculture, handloom and handicraft, promotion of infrastructures and marketing network |
| 2 |  | Opangkong (s) | Chungtia, Aliba,Khensa | Paddy, Maize, Tapioca  Cucumber, Passion fruit, Ginger, Orange | Low productivity due to non adoption of improved technology, Indiscriminate use of inorganic products in cucumber cultivation, lack of awareness on INM, lack of upgrade dairy breeds, inadequate availability of fodder , insect pest problem, lack of extension activities | Create awareness on fallow management and jhum intensification, Organic Off season cucumber cultivation, development of dairy and fodder crops, production of orange. |
| 3 |  | Kobulong | Mopungchuket, Impur | Paddy, Tapioca, Maize  Passion fruit, ginger, Banana, Piggery, Poultry, Dairy, Sericulture | Low productivity due to non adoption of improved technology, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, pest /disease problem in crops and silkworm, lack of processing unit and marketing, lack of spinning & weaving centers , lack of awareness on citronella cultivation, Inbreeding, disease and nutrition in piggery | Create awareness on fallow management and jhum intensification, To increase productivity of passion fruit, ginger and vegetables, promotion on spinning and weaving centre of sericulture, popularization of citronella cultivation, awareness on breeding programme, prevention and control of disease, scientific feeding management |
| 4 |  | Changtongya | Chuchuyimlang,  Unger, Akhoya | Paddy, Tapioca, Maize, Coloccasia, banana, Orange, Pineapple Tea, piggery, Poultry, Fishery | Low productivity due to non adoption of improved technology, lack of awareness on value addition products, insect pest and disease problem, poor transportation and marketing facilities, lack of upgraded breeds and health centre | Create awareness on fallow management and jhum intensification, To increase production of banana, tapioca, orange, pineapple, development of tea, arecanut, betel vine, improvement of piggery, fishery and sericulture, |
| 5 |  | Mangkolemba | Longsemdang, Khar | Paddy, Maize, Tapioca, Orange, Pineapple, Arecanut, Tea, betel vine, fishery, cattle, piggery | Unavailability of HYV ( lowland paddy), Lack of knowledge on improved method of cultivation , lack of processing unit, insect pest and disease problem, lack of awareness on INM, poor skill in fishery pond management, financial constraint to take up in commercial scale, inadequate availability of ploughing bullock, swine diseases | Promotion of HYV (paddy), production of oilseed and pulses, production of orange, pineapple, arecanut, tea and fish. Breeding programme for cattle and training of draught animals, prevention & control of swine diseases |
| 6 |  | Longchem | Japu  Nokpu | Paddy, Tapioca, Maize, colocassia, Agar, Arecanut, betel vine, cattle, piggery | Unavailability of HYV ( lowland paddy), Lack of knowledge and awareness on improved method of cultivation on plantation crops, lack of processing unit, lack of awareness on INM, financial constraint for commercial cultivation, inadequate availability of ploughing bullock, swine diseases | Promotion of HYV (paddy), Commercial cultivation of arecanut, tea, rubber, betel vine, colocassia, orange, production of oilseeds and pulses, Breeding programme for cattle and training of draught animals, prevention & control of swine diseases |

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2022-23

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discipline | OFT (Technology Assessment and Refinement) | | | | | | | | | | FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises) | | | | | | | | | |
| Number of OFTs | | | | | Number of Farmers | | | | | Number of FLDs | | | | | Number of Farmers | | | | |
| Targets | | Achievement | | | Targets | | Achievement | | | Targets | | Achievement | | | Targets | | Achievement | | |
| Agronomy | 4 | | 4 | | | 7 | | 7 | | | 2 | | 2 | | | 7 | | 7 | | |
| Horticulture | 2 | | 2 | | | 6 | | 6 | | | 4 | | 4 | | | 24 | | 24 | | |
| Soil conservation | 3 | | 3 | | | 9 | | 21 | | | 2 | | 2 | | | 40 | | 40 | | |
| Pl. Protection | 3 | | 3 | | | 7 | | 7 | | | 2 | | 2 | | | 8 | | 8 | | |
| Animal Science | 2 | | 2 | | | 6 | | 6 | | | 2 | | 2 | | | 8 | | 8 | | |
| **Total** | **14** | | **14** | | | **35** | | **47** | | | **12** | | **12** | | | **87** | | **87** | | |
| Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) | | | | | | | | | | | | Extension Activities | | | | | | | |
| Number of Courses | | | | | | | Number of Participants | | | | | Number of activities | | | | | Number of participants | | |
| Clientele | | Targets | | Achievement | | | Targets | | Achievement | | | Targets | | Achievement | | | Targets | | Achievement |
| **Agronomy** | |  | |  | | |  | |  | | | 172 | | 288 | | | 830 | | 2579 |
| Farmers | | 20 | | 20 | | | 400 | | 656 | | |
| Rural youth | | 0 | | 1 | | | 0 | | 20 | | |
| **Horticulture** | |  | |  | | |  | |  | | |
| Farmers | | 10 | | 10 | | | 200 | | 338 | | |
| Rural youth | | 3 | | 2 | | | 60 | | 40 | | |
| **Plant Protection** | |  | |  | | |  | |  | | |
| Farmers | | 6 | | 5 | | | 120 | | 118 | | |
| Rural youth | | 2 | | 1 | | | 60 | | 19 | | |
| **Soil conservation** | |  | |  | | |  | |  | | |
| Farmers | | 15 | | 21 | | | 300 | | 675 | | |
| Rural youth | |  | |  | | |  | |  | | |
| **Animal Science** | |  | |  | | |  | |  | | |
| Farmers | | 12 | | 21 | | | 240 | | 644 | | |
| Rural youth | | 4 | | 8 | | | 160 | | 179 | | |
| Total | | **72** | | **89** | | | **1540** | | **2689** | | | **172** | | **288** | | | **830** | | **2579** |
| Seed Production (ton.) | | | | | | | | | | Planting material (Nos. in lakh) | | | | | | | | | |
| Target | | | | | Achievement | | | | | Target | | | | | Achievement | | | | |
| 0.20 | | | | | 0.4 | | | | | 0.25000 | | | | | 0.22500 | | | | |
| **Total** | | | | | **0.4** | | | | | **0.250** | | | | | **0.225** | | | | |

1. B. Abstract of interventions undertaken during 2022

| Sl. No | Thrust area | Crop/  Enterprise | Identified problems | Interventions | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Title of OFT if any | Title of FLD if any | Title of Training if any | Title of training for extension personnel | Extension activities | Supply of seeds, planting materials etc. |
| 1 | Millet production | Pearl Millet | Low cultivation of millet in Area and production | Performance of Bio-fortified pearl millet | - | Production technology and importance of bio-fortified millet | Importance of millet and its role in human health | Training, Method Demonstration, Diagnostic visit, Monitoring | Seeds |
| 2 | Crop production | Soybean | Low yield of existing variety, Poor nutrient management | Varietal evaluation of Soybean var. VL 201 | - | - | - | Training, Demonstration and Field visit | seeds |
| 3 | Oilseed Production | Soyabean | Low yield of existing variety & low seed replacement | Performance evaluation of Soyabean Var: RVSM-1135 | - | Improved Oilseed production Technology | - | Method Demonstration, Diagnostic visit, Monitoring | Seeds |
| 4 | Tillage management | Pea/zero tillage | Intensive tillage leads to high evaporative moisture loss | Utera cropping of pea under rice based cropping system | - | - | - | Method Demonstration and Field visit | seeds |
| 5 | Pulse production | Fieldpea | Low yield in existing varieties | - | Popularization of Pea (Var Aman). | Cultivation practices of pulse crop. | - | Field visit, field day | Seeds |
| 6 | Oilseed production | Ts67 | Less adaption of Toria cultivation, leave field fallow during rabi | - | Demonstration on Toria  TS-67 | Cultivation practices of Toria | - | Field visit, field day | Seeds |
| 7 | Varietal evaluation | Tomato | Low yield and poor quality | Assessment of multiple disease resistant tomato var. Arka Abhed | - | Nutri -Garden | - | Method demonstration, Field visit, Diagnostic visit | Seeds |
| 8 | Varietal evaluation | Cauliflower | Poor quality and low yield | Varietal assessment of Cauliflower Candid Charm, Madhuri, | - | Nursery raising and management of winter vegetables | - | Method demonstration, Field visit, Diagnostic visit | Seeds |
| 9 | Vegetable Production | Chilli | Low yield | - | Demonstration on high yielding and disease resistant Chilli variety Arka Khyati | - | - | - | Seeds |
| 10 | Vegetable Production | Chilli | Poor quality and Low yield | - | Popularization of disease resistant Chilli variety Arka Meghana | - | - | - | Seeds |
| 11 | Vegetable Production | Tomato | Poor quality and Low yield | - | Popularization of disease resistant Tomato variety Arka Samrat | - | - | - | Seeds |
| 12 | Vegetable Production | Broccoli | Low income | - | Income generation through high value crop (Broccoli var. Green magic) | - | - | Training, Method Demonstration, Field visit. | Seeds |
| 13 | Soil nutrient management | Potato | No nutrient management practice in potato cultivation | Assessment of lime application for higher productivity in potato | - | - | - | Monitoring, field visits | Potato tubers & other required inputs |
| 14 | Soil nutrient management | Upland paddy | No nutrient management practices followed for upland paddy | Assessment of brown manuring (dhaincha) in Upland paddy | - | - | - | Monitoring, field visits | Dhaincha seeds |
| 15 | Soil nutrient management | Soyabean | No nutrient management practice in Soyabean cultivation | Integrated Nutrient Management in Soyabean | - | - | - | Monitoring, field visits | Soyabean seeds, fertilizers & bio-fertilizers |
| 16 | Soil nutrient management | Enriched compost | Non use of enriched compost | - | Popularisation of use of enriched compost for organic agriculture | Enriched composting | - | Monitoring, field visits | Rock phosphate & bio-fertilizers |
| 17 | Soil management | Bio-char | No management of acidic soil | - | Popularization of  Bio-char in winter vegetables | Bio-char for acid soil management | - | Monitoring, field visits | Seeds |
| 18 | IPM | Maize | High incidence of fall armyworm (50 %) | IPM on Fall Army Worm | - | - | - | - | Bio – agents |
| 19 | Biological control | Chilli | Lower yield and quality due to insect pest infestation (upto 35%) | Management of major insect pests in chilli | - | - | - | - | Bio –agents |
| 20 | IPM | Tomato | High incidence of late blight disease (50%) | Management of late blight in Tomato | - | - | - | - | Bio – agents , seeds |
| 21 | IPM | Cucumber | Severe fruit rotting due to fruit flies (30%) | - | Popularization of pheromone trap for management of fruit fly in cucurbits | - | - | - | Cue – lure traps |
| 22 | IDM | Field pea | Severe root rotting | - | Management of *Rhizoctonia* root rot in pea using  *Trichoderma spp* | - | - | - | Bio – agents |
| 23 | Nutrition management | Poultry | High cost of concentrate feeds | Assessment of Azolla (A. caroliniana) feeding as dietary supplement in backyard poultry production |  | - | - | Training, Method demonstration, Field visit, Diagnostic visit | Poultry chicks, initial feeds, medicines, azolla with azolla bed and green net shades |
| 24 | Evaluation of breed | Poultry | Low production of local chicken | Introduction of Kamrupa chicken in backyards | - | - | - | Training, Method demonstration, Field visit, Diagnostic visit | Poultry chicks, initial feeds, medicines. |
| 25 | Production and management | Piggery | Poor piglet production due to iron deficiency | - | Demonstration on iron injection and supplementation of vitamin-mineral for production of quality piglets | - | - | Training, Method demonstration, Field visit, Diagnostic visit | Iron injection, vitamin and minerals. |
| 26 | Evaluation of breed | Duckery | Lack of awareness on the benefit of integrated farming | - | Popularisation of integrated farming system involving fish and White Pekin duck | - | - | Training, Method demonstration, Field visit, Diagnostic visit | Ducklings, initial feeds, medicines |

3.1 Achievements on technologies assessed and refined during 2022

A.1 Abstract of the number of technologies assessed\* in respect of crops/enterprises

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
| Varietal Evaluation | 1 | 2 | 1 |  | 2 |  |  |  |  | 6 |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management | 1 | 1 |  |  |  |  |  |  | 1 | 3 |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| Drudgery reduction |  |  |  |  |  |  |  |  |  |  |
| Farm machineries |  |  |  |  |  |  |  |  |  |  |
| Value addition |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management | 1 |  |  |  |  |  |  |  |  | 1 |
| Integrated Disease Management |  |  |  |  | 2 |  |  |  |  | 2 |
| Resource conservation technology |  |  |  |  |  |  |  |  |  |  |
| Small Scale income generating enterprises |  |  |  |  |  |  |  |  |  |  |
| **TOTAL** | **3** | **3** | **1** |  | **4** |  |  |  | **1** | **12** |

\* *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.*

A.2. Abstract of the number of technologies refined\* in respect of crops/enterprises

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
| Varietal Evaluation |  |  |  |  |  |  |  |  |  |  |
| Seed / Plant production |  |  |  |  |  |  |  |  |  |  |
| Weed Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Crop Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Nutrient Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Farming System |  |  |  |  |  |  |  |  |  |  |
| Mushroom cultivation |  |  |  |  |  |  |  |  |  |  |
| Drudgery reduction |  |  |  |  |  |  |  |  |  |  |
| Farm machineries |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology |  |  |  |  |  |  |  |  |  |  |
| Integrated Pest Management |  |  |  |  |  |  |  |  |  |  |
| Integrated Disease Management |  |  |  |  |  |  |  |  |  |  |
| Resource conservation technology |  |  |  |  |  |  |  |  |  |  |
| Small Scale income generating enterprises |  |  |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |

\* Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.

A.3. Abstract of the number of technologies assessed in respect of livestock / enterprises

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitery | Fisheries | TOTAL |
| Evaluation of Breeds |  | 1 |  |  |  |  |  | 1 |
| Nutrition Management |  | 1 |  |  |  |  |  | 1 |
| Disease of Management |  |  |  |  |  |  |  |  |
| Value Addition |  |  |  |  |  |  |  |  |
| Production and Management |  |  |  |  |  |  |  |  |
| TOTAL |  | **2** |  |  |  |  |  | **2** |

A.4. Abstract on the number of technologies refined in respect of livestock / enterprises

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitery | Fisheries | TOTAL |
| Evaluation of Breeds |  |  |  |  |  |  |  |  |
| Nutrition Management |  |  |  |  |  |  |  |  |
| Disease of Management |  |  |  |  |  |  |  |  |
| Production and Management |  |  |  |  |  |  |  |  |
| Feed and Fodder |  |  |  |  |  |  |  |  |
| Small Scale income generating enterprises |  |  |  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |

A.5. Results of On Farm Testing (OFT)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cropping system/ Enterprise | No. of Trials | Results of Assessment/ Refined (Data on the parameter should be provided) | | Feedback from the farmer | Feedback to the Researcher | B:C Ratio |
| Technology | Farmers practise |  |  |  |
| 1 | Varietal evaluation of Soybean Var. VL- 201 | Low yield of existing variety, Poor nutrient management | VL-201 | Soybean | 3 | Pl. Ht. At harvest: 30.33cm.  **Yield: 14qt/ha** | 1.Av. ht-23cm  2.Yield-9qt/ha | Higher yield less referred due to black in colour | - | 2.16 |
| 2 | Performance of Bio-fortified Pearl Millet | Low cultivation of millet in Area and production | Dhanashakti | Pearlmillet | 2 | Av. Pl ht: 155 cm  Days to maturity: 125  Seeds could not be saved from birds | Av. Pl ht: 187 cm  Days to maturity: 145 | It attracts more birds than local varieties | Further assessment is required with protection of crop from birds | - |
| 2 | Performance evaluation of Soyabean Var: RVSM-1135 | Low yield of existing variety & low seed replacement | RVSM-1135 | Soyabean | 2 | Av. Pl ht: 29cm  Days to maturity:101  Av. Yield: 6.1 qt/ha | Av. Pl ht: 52cm  Days to maturity: 129  Av. Yield:9.87 qt/ha | May perform better in early sowing | Need further assessment with early sowing | 1.3 |
| 2 | Double cropping of pea under rice based cropping system | Intensive tillage leads to high evaporative moisture loss | Double Cropping | Field Pea | 3 | O.C at O-15cm depth - 0.86%  Yield/ha -12.5qt | Yield-10.5qt/ha | Higher yield and labour cost is less. | - | 2.27 |
| 3 | Assessment of multiple disease resistant Tomato var.Arka Abhed | Low yield and poor quality | Arka Abhed | Tomato | 3 | Pl. ht- 80cm  No. of Frt/pt-55.25  Fruit wt-95.15  Yield/pt-4.5kg  Yield/ha-208q | 1.Pl. ht- 67cm  2. No. of Frt/pt: 25.18  3. Fruit wt-50.85  4.Yield/pt-1.65kg  5.Yield/ha-158q | Arka Abhed gives better quality with less disease infection | Need further assessment | T1: 4  T2: 2.96 |
| 4 | Varietal assessment of Cauliflower T-1 Candid Charm,T-2: Madhuri, T-3: Farmers variety | Low yield | Candid Charm, Madhuri | Cauliflower | 3 | T1: Duration:65days  Pl. ht- 44.6cm  Curd diameter-14.27cm & Curd wt-500g, Y/ha-120q  T2: Duration of crop-115days  Pl.t ht- 44.3cm  Curd diameter-12.23cm & Curd wt: 350g, Y/ha: 95q | 1.Duration :120days  2.Plant ht- 39.9cm  3.Curd diameter: 9.23cm & Curd wt: 200g  4.Y/ha: 90q | Candid Charm gives higher yield than Madhuri | Need further assessment | T1: 3.7  T2: 3.3  T3: 2.85 |
| 5 | Assessment of lime application for higher productivity in potato | No nutrient management practice in potato cultivation | T1- Application of Lime @ 400 kg/ha in furrows + 50% RDF (120:120:60)+ 1 t/ha vermicompost  T2- 100% RDF  T3- Lime only | Potato | 3 | Avg. Yield  T1- 171 qt/ha  T2- 208 qt/ha  Soil properties  Initial pH :  T1: 4.55, T2:4.62  Final pH:  T1: 4.15, T2: 4.29  Initial OC (%)  T1: 1.23, T2: 1.12  Final OC (%)  T1- 1.52, T2- 1.09  Initial N (kg/ha)  T1: 410, T2: 370  Final N (kg/ha)  T1: 442, T2: 350  Initial P (kg/ha)  T1: 31.28, T2: 30.38  Final P (kg/ha)  T1: 1.52, T2: 1.09  Initial K (kg/ha)  T1: 1.23,T2: 1.12  Final K(kg/ha)  T1: 1.52, T2: 1.09 | Yield: 119 qt/ha  pH: 4.75  Final pH: 4.88  Initial OC1.07  Final OC: 1.14  Initial N: 346.4  Final N:380  Initial P: 44.68  Final P: 33.06  Initial K: 108.3  Final K: 240.5 | Better yield than normal cultivation |  | T1: 2.20  T2: 3.35  T3: 1.93 |
| 6 | Assessment of brown manuring (Dhaincha) in upland paddy | No nutrient management practices followed for upland paddy | T1-Broadcasting & growing Dhaincha @ 20 kg/ha along with upland jhum paddy & knocking down using 100 kg salt/ha (10% NaCl), 25-30 DAS  T2- Stale bed technique  T3- Check | Paddy | 3 | Avg. Yield  T1-12.2 qt/ha  T2- 9.6 qt/ha  Soil properties  Initial pH :  T1: 4.62, T2: 4.29  Final pH:  T1: 4.88, T2: 4.33  Initial OC (%)  T1: 1.32, T2: 1.03  Final O C (%)  T1- 1.23, T2- 1.12 | T3 or C- 9 qt/ha  Initial pH: 4.75  Final pH: 4.79  Initial OC: 1.23  Final OC: 1.25 | Good technology | - | T1: 1.3  T2: 1.1  T3: 1 |
| 7 | Integrated Nutrient Management in Soyabean | No nutrient management practices followed for soyabean | T-1 Application of rhizobium 200g/kg of seed + 20:60: 40 NPK Kg/ha + FYM 10t/ha+ furrow liming @ 500 kg/ha  T-2 100% RDF  T-3 Check | Soyabean | 3 | Avg. Yield  T1- 13.5 qt/ha  T2- 12 qt/ha | T3 or C-9.8 qt/ha | Good technology | - | T1: 1.2  T2: 1.1    T3: 1.1 |
| 8 | IPM on fall army worm | High incidence of fall army worm (upto 50 %) | **T1**- *Metarrhizium anisopliae* talc formulation @ 5 gm / litre whorl application at 15-25 days after sowing + spraying *Beauveria bassiana* & *Bacillus thuringiensis* var *Kurstaki* 2g/lt of water  **T2**- Spraying of Emamectin benzoate 5% SG @ 0.4g/lit of water, **T3-**  Check | Maize | 3 | **T1**  Yield- 20.8/ha  Infestation: 30%  **T2**  Yield: 22kg/ha  Infestation: 25% | **T3**  1)Yield: 12.5kg/ha  2)infestation:58% | Acceptable | Treatment T1 is better for the farmers as it is organic and easily available in the district | T1: 1.6  T2: 1.8  T3: 1.1 |
| 9 | Management of major insect pests in chilli | Insect pest infestation leading to lower yield production and quality (upto 35%) | **T1-** Alternate spraying of *Lecanicillium licanii* @ 5 ml/lt of water and Azadirachtin 0.03 EC @5ml/lt at 15 days interval at pre flowering stage, **T2**- yellow sticky trap, **T3-** Check | Chilli | 2 | **T1**  Yield: 202 kg/ha  Infestation: 30%  **T2**  Yield : 198 kg/ha  Infestation: 25 % | **T3**  1) yield: 112 kg/ha  2) infestation- 50% | Good technology | Integration of both the treatments would result in higher yield | T1: 3.2  T2: 3  T3: 1.8 |
| 10 | Management of late blight in Tomato | High incidence of late blight disease (50%) | **T1-**Arka Samrat (Resistant variety)  **T2-** Arka Abed  **T3-** Check |  |  | **T1** Yield : 380/kg  Infestation: 10.5%  **T2** Yield : 365kg/ha  Infestation: 15% | **T3**  1) yield: 194 kg/ha  2) infestation: 30% | Good technology |  | T1: 2.17  T2: 2.1  T3: 1.3 |
| 11 | Assessment of azolla (A. caroliniana) feeding as dietary supplement in backyard poultry production. | High cost of concentrate feeds | azolla (A. caroliniana) feeding as dietary supplement | poultry | 3 | 1. Egg production  a. Age (days) at first egg lay = 182  b. av. wt of the eggs = 52 gm (35 weeks)  c. At 40 weeks of age = 90 per bird  2. Meat production  a. wt of males at 6 months = 2700 gm  b. wt of the female at 6 months = 2300 gm |  | Better growth with easily available resources | Similar technology should be tested under field conditions | 1.97 |
| 12 | Introduction of Kamrupa chicken in backyards | Low production of local breed | Kamrupa chicken | poultry | 3 | 1. body wt at first egg lay = 1.8 kg  2. Age at first egg lay = 144 days  3. Av wt. of egg  at first lay=32gm  at 35 weeks=52gm |  | Performs well their meat is similar in taste to local chicken. |  | 1.56 |

3.2 Achievements of Frontline Demonstrations during 2022

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous years and popularized during 2017-18 and recommended for large scale adoption in the district

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No** | **Crop and Variety/**  **Enterprise** | **Technology demonstrated** | **Horizontal spread of technology** | | |
| No. of villages | No. of farmers | Area in ha |
| 1 | Paddy | Green manuring in paddy | 2 | 10 | 4 |

*\* Thematic areas as given in Table 3.1 (A1 and A2)*

b. Details of FLDs conducted during reporting period (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/  demonstration | | | Reasons for shortfall in achievement | Farming situation  (Rainfed/ Irrigated, Soil type, altitude) | Status of soil (Kg/ha) | | |
| N | P | K |
| Proposed | Actual | SC/ST | Others | T |  |  |  |  |  |
| 1 | Field pea | Seed production | Aman | Rabi,2022 | 1 | 1 | 3 | - | 3 | - | Rainfed |  |  |  |
| 2 | Toria | Seed production | TS-67 | Rabi 2022 | 1 | 1 | 4 | - | 4 | - | Rainfed |  |  |  |
| 3 | Chilli | Vegetable production | Arka Khyati | Kharif2022 | 3 | 3 | 6 | - | 6 | - | Rain fed |  |  |  |
| 4 | Chilli | Vegetable production | Arka Meghana | Kharif2022 | 3 | 3 | 6 | - | 6 | - | Rain fed |  |  |  |
| 5 | Tomato | Vegetable production | Arka Samrat | Kharif 2022 | 3 | 3 | 6 | - | 6 | - | Rain fed |  |  |  |
| 6 | Broccoli | Vegetable production | Green magic | Rabi 2022 | 3 | 3 | 6 | - | 6 | - | Rain fed |  |  |  |
| 7 | Enriched compost | Soil health management | Amending normal compost with 1% P as Rock Phosphate together with inoculating Azospirillum/ Azotobacter and Phosphate Solubilizing Bacteria (PSB) | Rabi 2022 | 10 units | 20 units | 20 | - | 20 | NA | Rainfed | - | - | - |
| 8 | Biochar in brocolli | Soil health management | Biochar from locally available weed biomass and application @ 5-10 t/ha | Rabi 2022 | 2 | 2 | 10 | - | 10 | NA | Rainfed | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Cucumber | Integrated pest management | Installation of Cue Lure for monitoring and mass trapping of fruit fly to reduce male population @ 25 traps/ ha | Kharif 2022 | 1 | 1 | 4 | - | 4 | - | Rainfed | - | - | - |
| 10 | Field Pea | Integrated disease management | **-** Seed treatment with *Trichoderma viride*  @ 5-10 gms/kg of seed  -Soil treatment @6-8kg/ha of land  - Foliar spray @ 5-10 gms/litre of water | Rabi 2022 | 2 | 2 | 4 | - | 4 | - | Rainfed - | - | - | - |

c. Performance of FLD on Crops during 2022

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Crop | Thematic area | Area (ha.) | Avg. yield (Q/ha.) | | % increase in Avg. yield | Additional data on demo. Yield (Q/ha.) | | Data on parameters other than yield, e.g., disease incidence, pest incidence etc. | | Econ. of demo. (Rs./ha.) | | | | Econ. of check (Rs./Ha.) | | | |
| Demo. | Check | H\* | L\* | GC | GR | NR | BCR | GC | GR | NR | BCR |
| Demo | Local |
| 1 | Field pea | Seed production | 1 | 14 | 11 | 27.27 | 15 | 13 | - | - | 20000 | 46500 | 26500 | 2.33 | 19050 | 39350 | 20300 | 2.06 |
| 2 | Toria | Seed production | 1 | 5.65 | 4.4 | 28.41 | 6.50 | 4.8 | - | - | 10500 | 23300 | 12800 | 2.21 | 10100 | 20600 | 10300 | 2.01 |
| 3 | Chilli | Vegetable production | 3 | 125 | 112 | 11.6 | 140 | 110 | - | - | 45000 | 125000 | 80000 | 2.7 | 46000 | 89600 | 43600 | 1.94 |
| 4 | Chilli | Vegetable production | 3 | 130.5 | 112 | 16.51 | 146 | 115 | - | - | 47500 | 130000 | 82000 | 2.73 | 40000 | 89000 | 49000 | 2.24 |
| 5 | Tomato | Vegetable production | 3 | 200 | 158 | 26.5 | 237 | 163 | - | - | 52000 | 180000 | 128000 | 3.46 | 45000 | 133200 | 88200 | 2.96 |
| 6 | Broccoli | Vegetable production | 3 | 110 | 90 | 22.2 | 140 | 80 | - | - | 45000 | 130000 | 85000 | 2.8 | 40000 | 90000 | 50000 | 2.25 |
| 7 | Winter vegetables | Enriched compost | 3 | - | - | - | - | - | - | - | 4080 | 10000 | 5920 | 2.45 | 1500 | 5000 | 3500 | 1.43 |
| 8 | Broccoli | Biochar in Broccoli | 2 | 98 | 80 | 18.36 | - | - | - | - | 208000 | 588000 | 380000 | 2.9 | 188000 | 480000 | 292000 | 2.5 |
| 9 | Cucumber | Integrate pest management | 1 | 110 | 75 | 46.66 | 115 | 70 | No. of premature fruit drop: 6.66 | No. of premature fruit drop: 12 | 57200 | 121000 | 63800 | 2.1 | 50,100 | 82500 | 32400 | 1.6 |
| 10 | Field pea | Integrated disease management | 2 | 14 | 11 | 27.27 | 15 | 13 | Disease incidence- 21.30% | Disease incidence-54.64% | 20000 | 46500 | 26500 | 2.33 | 19050 | 39350 | 20300 | 2.06 |

\*H-Highest recorded yield, L- Lowest recorded yield\*\* GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost RatioProduce Sale Price must be as per MSP or Registered Marketing SocietyPl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC*Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.*

d. Extension and Training activities under FLD on Crops

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.No. | Activity | No. of activities organised | Date | Number of participants | | | Remarks |
| Gen | SC/ST | Total |
| 1 | Field days | 2 | 19/1/22 |  | 7 | 7 | FLD on Vegetables (Tomato) |
| 2 | Farmers Training | 1 | 20th April’22 |  | 11 | 11 | FLD training on making farm compost |
| 3 | Media coverage | 1 | 27th April’22 |  |  |  | Press release for media coverage |
| 4 | Training for extension functionaries |  |  |  |  |  |  |
|  | Total | 6 |  |  | 18 | 18 |  |

e. Details of FLD on Enterprises

(i) Farm Implements

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of the implement | Crop | No. of farmers | Area (ha) | Performance parameters /  Indicators | \* Data on parameter in relation to technology demonstrated | | % change in the parameter | Remarks |
| Demon. | Local check |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

*\* Field efficiency, labour saving etc.*

(ii) Livestock Enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl | Enterprise/ Category | Thematic area | Name of Technology | No. of farmers | No. of unit | No. of animals, poultry birds etc. | Major Performance parameters / indicators | | % change in the parameter | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
| GC\*\* | GR\*\* | NR | BCR | GC | GR | NR | BCR |
| Demo | Check |
| 1 | Piggery | Production and management | Iiron injection & supplementation of vitamin -mineral for production of quality piglets | 3 | 3 | Piglets produced from farmers sow | Wt of piglet at weaning  9.4 kg | Wt of piglet at weaning  7.8 kg | 17% | 600/piglet | 2820/piglet | 2220/piglet | 4.7 | 550/ piglet | 2340/piglet | 1790/piglet | 4.24 | Iron injection @ 1ml per piglet at 2- 5 days old. Vitamin-minerals were given when they start eating. |
| 2 | Duckery | Evaluation of breed | White Pekin duck performance under integrated farming | 5 | 5 units | 40 birds per unit | Average weight gained at maturity = 2.65 kg/bird | Average weight gained at maturity = 1.5 kg/bird | 24.5% | 820/bird | 1200/bird | 380/bird | 1.5:1 |  |  |  |  | 40 numbers of day old duckling were distributed per beneficiary. Ducks were reared on the pond dykes where house was made of locally available source. |

(iii) Fisheries

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Category, e.g. Common carp, ornamental fish etc. | Thematic area | Name of Technology | No. of farmers | No. of units | No. of fish/ fingerlings | Major Performance parameters / indicators | | % change in the parameter | Other parameters (if any) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
| Demo | Check | GC\*\* | GR\*\* | NR\*\* | BCR\*\* | GC | GR | NR | BCR |
| Demo | Check |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*\*\* GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio*

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

(iv)Other enterprises

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc. | Thematic area | Name of Technology | No. of farmers | No. of units | Major Performance parameters / indicators | | % change in the parameter | Other parameters (if any) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | | Remarks |
| Demo | Check | GC\*\* | GR\*\* | NR\*\* | BCR\*\* | GC | GR | NR | BCR |
| Demo | Check |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*\*\* GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio*

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

(v) Farm Implements and Machinery

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Name of implement | Crop | Name of Technology demonstrated | No. of farmers | Area (In ha.) | Field observation (Output/ man-hours) | | % change in the parameter | Labour reduction (Man days) | Cost reduction (Rs. per ha. or Rs. per unit etc.) | Remarks |
| Demo | Check |
|  |  |  |  |  |  |  |  |  |  |  |  |

*f. Performance of FLD on Crop Hybrids*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Crop | Name of hybrids | Area (ha.) | No. of farmers | Avg. yield (Q/ha.) | | % increase in Avg. yield | Additional data on demo. yield (Q/ha.) | | Econ. of demo. (Rs./Ha.) | | | | Econ. of check (Rs./Ha.) | | | |
| Demo. | Check | H\* | L\* | GC\*\* | GR\*\* | NR\*\* | BCR\*\* | GC | GR | NR | BCR |
|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

*\*H-Highest recorded yield, L- Lowest recorded yield*

*\*\* GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio*

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

3.3. Achievements on Training during 2022

\*\*(Attached separate in Excel format)

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discipline | Area of training | Title of the training programme | Date | Duration in days | Venue | Please specify Beneficiary group | General participants | | | SC/ST | | | Grand Total | | |
| M | F | T | M | F | T | M | F | T |
| Agronomy | Cereal production | Importance of Millet & its role in human health | 16/6/22 | 1 | KVK | Farmer & farm women |  |  |  | 2 | 48 | 50 | 2 | 48 | 50 |
| Integrated crop management | Soyabean Production and its role as mix cropping | 20/8/22 | 1 | KVK | Farmer & farm women |  |  |  | 7 | 8 | 15 | 7 | 8 | 15 |
| Cropping system | Training on bio-fortified crops with special reference to Millets | 26/4/22 | 1 | KVK | Farmer, Farm women &RY |  |  |  | 13 | 60 | 73 | 13 | 60 | 73 |
| others | Innovative agriculture through natural Farming | 25/4/22 | 1 | KVK | Farm women &RY |  |  |  | 0 | 29 | 29 | 0 | 29 | 29 |
| Agro forestry | Training on awareness on region specific agroforestry | 21/6/22 | 1 | KVK | Farmer and Farm women |  |  |  | 3 | 33 | 36 | 3 | 33 | 36 |
| Horticulture | Olericulture | Training on Technologies for organic management of vegetable crops | 12/12/22 | 1 | KVK | Farmer and Farm women |  |  |  | 2 | 13 | 15 | 2 | 13 | 15 |
| Soil conservation | Soil & Water Management | Importance of natural farming in the present scenario | 25/4/22 | 1 | KVK | Farmer & Farm women |  |  |  | 6 | 33 | 39 | 6 | 33 | 39 |
| Awareness on Swachhta | 17/10/22 | 1 | KVK | Farmer & Farm women |  |  |  | 13 | 59 | 72 | 13 | 59 | 72 |
| Solid waste management | 17/10/22 | 1 | KVK | Farmer & Farm women |  |  |  | 6 | 49 | 55 | 6 | 49 | 55 |
| Animal Sc. | piggery | Piggery production and management cum health camp | 15.03.22 | 1 | KVK | Farmer & Farm women |  |  |  | 1 | 25 | 26 | 1 | 25 | 26 |
| poultry | Poultry production and management | 21.06.22 | 1 | KVK | Farmer & Farm women |  |  |  | 3 | 33 | 36 | 3 | 33 | 36 |

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discipline | Area of training | Title of the training programme | Date | Duration in days | Venue | Please specify Beneficiary group | General participants | | | SC/ST | | | Grand Total | | |
| M | F | T | M | F | T | M | F | T |
| Agronomy | Cereal Production | Improved Maize production | 13/8/22 | 1 | Longjang | Farmer & Farm women |  |  |  | 9 | 4 | 13 | 9 | 4 | 13 |
| Crop Diversification | Nutri-cereals and its role as climate resilient crop | 17/9/22 | 1 | Salulamang | Farmer & Farm women |  |  |  | 9 | 53 | 62 | 9 | 53 | 62 |
| Seed production | Oilseed production technology | 14/10/22 | 1 | Chuchuyimlang | Farmer & Farm women |  |  |  | 11 | 9 | 20 | 11 | 9 | 20 |
| Seed production | Potato seed Production technology | 2/11/22 | 1 | Longjang | Farmer & Farm women |  |  |  | 17 | 7 | 24 | 17 | 7 | 24 |
| Resource Conservation | Introduction to Natural Farming | 3-4/11/22 | 2 | Chuchuyimlang | Farmer & Farm women |  |  |  | 9 | 32 | 41 | 9 | 32 | 41 |
| Cropping system | Training on millet production | 1/2/22 | 1 | Kupza | Farm women |  |  |  | 0 | 9 | 9 | 0 | 9 | 9 |
| Cropping system | Training on pulse production | 10/2/22 | 1 | Kubolong | Farmer & Farm women |  |  |  | 13 | 27 | 40 | 13 | 27 | 40 |
| others | Training on women in agriculture | 8/3/22 | 1 | Kubolong | Farm women |  |  |  | 0 | 39 | 39 | 0 | 39 | 39 |
| others | Training on Natural farming | 13/4/22 | 1 | Kupza | Farm women |  |  |  | 0 | 23 | 23 | 0 | 23 | 23 |
| Crop diversification | Training on prospects of different types of farming. | 29/5/22 | 1 | Chuchuyimlang. | Farmer & Farm women |  |  |  | 15 | 30 | 45 | 15 | 30 | 45 |
| Cropping system | Training on importance of cultivating pulse crop | 28/7/22 | 1 | Mongsenyimti | Farmer & Farm women |  |  |  | 8 | 22 | 30 | 8 | 22 | 30 |
| Cropping system | Training on scientific production of rabi crops | 24/8/22 | 1 | Salulemang | Farmer & Farm women |  |  |  | 15 | 11 | 26 | 15 | 11 | 26 |
| Weed management | Training on integrated weed management in vegetable crops | 23/8/22 | 1 | chuchuyimpang | Rural youth |  |  |  | 4 | 16 | 20 | 4 | 16 | 20 |
| Agronomy | Cropping system | Training on rabi season crop production | 16/9/22 | 1 | Longkhum | Farmer & Farm women |  |  |  | 2 | 7 | 9 | 2 | 7 | 9 |
| Cropping system | Training on scientific production of pulses and oilseed crops | 26/9/22 | 1 | Kinunger | Farmer & Farm women |  |  |  | 2 | 18 | 20 | 2 | 18 | 20 |
| Cropping system | Training on cultivation practices of winter vegetable | 1/11/22 | 1 | Merangkong | Farmer & Farm women |  |  |  | 4 | 20 | 24 | 4 | 20 | 24 |
| Horticulture | Value addition | Training on Value addition of Horticulture crops for rural income | 19/8/22 | 1 | Yimyu | Rural Youth |  |  |  | 8 | 11 | 19 | 8 | 11 | 19 |
| Olericulture | Training on Winter vegetables crop production | 16/9/22 | 1 | Longkhum | Farmer & farm women |  |  |  | 1 | 6 | 7 | 1 | 6 | 7 |
| Olericulture | Training on Nutri-Garden | 17/9/22 | 1 | Salulamang | Farm women |  |  |  | - | 60 | 60 | - | 60 | 60 |
| Olericulture | Training on Winter vegetable crops. | 26/9/22 | 1 | Kinunger | Farmer & Farm women |  |  |  | 2 | 18 | 20 | 2 | 18 | 20 |
| Olericulture | Training and Demonstration on Nursery raising and management of winter vegetables. | 7/11/22 | 1 | RK School Tuli | Students/Rural youth |  |  |  | 45 | 55 | 100 | 45 | 55 | 100 |
| Cropping Pattern | Training on Mixed crop farming | 13/12/22 | 1 | Mokokchung | Farmer & Farm women |  |  |  | 10 | 13 | 23 | 10 | 13 | 23 |
| Value addition | Training on Harnessing favourable weather events for value addition in Horticulture | 30/1/22 | 1 | Old Anaki | Farmer & Farm Women |  |  |  | 13 | 25 | 38 | 13 | 25 | 38 |
| Olericulture | Training on Horticultural crop management with special reference to Nutritional gardening | 13/3/22 | 1 | CTC Aolichen | Students/Rural youth |  |  |  | 15 | 21 | 36 | 15 | 21 | 36 |
| Soil conservation |  | Soil health and fertility management | 13/1/22 | 1 | Longmisa | Farmer & Farm women |  |  |  | - | 37 | 37 | - | 37 | 37 |
|  | Awareness on soil and water conservation | 13/01/22 | 1 | Longmisa | Farmer & Farm women |  |  |  | - | 37 | 37 | - | 37 | 37 |
|  | Safe and judicious use of fertilizers | 10/2/22 | 1 | Kubza | Farmer & Farm women |  |  |  | 4 | 5 | 9 | 4 | 5 | 9 |
|  | Soil health and fertility management | 5/2/22 & 8/2/22 | 2 | Mopungchuket | Farmer & Farm women |  |  |  | 29 | 46 | 75 | 29 | 46 | 75 |
|  | Awareness on soil and water conservation | 5/2/22 & 8/2/22 | 2 | Kubolong | Farmer & Farm women |  |  |  | 29 | 46 | 75 | 29 | 46 | 75 |
|  | Use of organics in vegetable production in homestead garden | 24/3/22 | 1 | Longmisa | Farmer & Farm women |  |  |  | - | 14 | 14 | - | 14 | 14 |
|  | FLD training on how to make compost | 20/4/22 | 1 | Mulongkong | Farmer & Farm women |  |  |  | 10 | 1 | 11 | 10 | 1 | 11 |
|  | Importance on rain water harvesting and management | 4/5/22 | 1 | Mulongkong | Farmer & Farm women |  |  |  | 19 | 37 | 56 | 19 | 37 | 56 |
|  | Importance of awareness on balanced use of fertilizers & INM | 21/6/22 | 1 | Yisemyong | Farmer & Farm women |  |  |  | 36 | 3 | 39 | 36 | 3 | 39 |
|  | Awareness on importance of water conservation for rabi crops | 16/7/22 | 1 | Yisemyong | Farmer & Farm women |  |  |  | - | 36 | 36 | - | 36 | 36 |
| Soil conservation |  | Awareness training on  Water conservation for under Jal Shakti Abhiyan | 20/7/22 | 1 | Mongsenyimti | Farmer & Farm women |  |  |  | 6 | 24 | 30 | 6 | 24 | 30 |
|  | Awareness on importance of rain water harvesting & management | 24/8/22 | 1 | Chuchuyimlang | Farmer & Farm women |  |  |  | 4 | 16 | 20 | 4 | 16 | 20 |
|  | Vermicomposting for agricultural waste mangement | 29/8/22 | 1 | Mongsenyimti | Farmer & Farm women |  |  |  | 5 | 9 | 14 | 5 | 9 | 14 |
|  | FLD training on importance of management of acid soil | 16/9/22 | 1 | Longkhum | Farmer & Farm women |  |  |  | 5 | 5 | 10 | 5 | 5 | 10 |
|  | Vermicomposting for agricultural waste mangement | 8/9/22 | 1 | Mongsenyimti | Farmer & Farm women |  |  |  | - | 10 | 10 | - | 10 | 10 |
| Plant protection | Other | Mushroom production for Livelihood improvement | 8/9/22 | 1 | Chuchuyimlang | Farmers & farm women | - | - | - | 6 | 16 | 22 | 6 | 16 | 22 |
| IPM | Integrated pest management on winter crops | 1/11/22 | 1 | Merangkong | Farmers & farm women |  |  |  |  |  |  |  |  |  |
| IDM | Method demonstration on Bordeaux mixture spray | 30/1/22 | 1 | Old Anaki | Farmers & farm women | - | - | - | 4 | 20 | 24 | 4 | 20 | 24 |
| Other | Promoting awareness on safe food handling behaviour for farm women | 11/2/22 | 1 | Chuchuyimpang | Farmers & farm women | - | - | - | - | 17 | 17 | - | 17 | 17 |
| IPM | Integrated pest management on Khasi mandarin | 27/3/22 | 1 | Salulamang | Farmers & farm women | - | - | - | 14 | 3 | 17 | 14 | 3 | 17 |
| Other | Oyster mushroom production for livelihood improvement | 29/3/22 | 1 | Asangma | Rural Youth | - | - | - | - | 19 | 19 | - | 19 | 19 |
| Animal Sc. | piggery | Piggery production and management | 27-29/1/22 | 3 | Longjang | Farmer & Farm women |  |  |  | 9 | 36 | 45 | 9 | 36 | 45 |
| piggery | Scientific approach towards piggery farming for better productivity | 3-5/2/22 | 3 | Mopungchuket | Farmer & Farm women |  |  |  | 15 | 18 | 33 | 15 | 18 | 33 |
| piggery | Training on scientific pig production | 10-12/2/22 | 3 | Kubolong | Farmer & Farm women |  |  |  | 15 | 27 | 42 | 15 | 27 | 42 |
| piggery | Piggery production and management | 17-19/2/22 | 3 | Sungratsu | Farmer & Farm women |  |  |  | 18 | 19 | 37 | 18 | 19 | 37 |
| piggery | Training on scientific pig production | 24-26/2/22 | 3 | Changtongya | Farmer & Farm women |  |  |  | 11 | 23 | 34 | 11 | 23 | 34 |
| piggery | Piggery production and management cum health camp | 21/3/22 | 1 | Kubolong | Farmer & Farm women |  |  |  | 12 | 8 | 20 | 12 | 8 | 20 |
| poultry | Poultry management | 21/3/22 | 1 | Kubolong | Farmer & Farm women |  |  |  | 12 | 8 | 20 | 12 | 8 | 20 |
| piggery | Piggery production and management | 27/4/22 | 1 | Yimchalu | Farmer & Farm women |  |  |  | 7 | 14 | 21 | 7 | 14 | 21 |
| piggery | Piggery production and management under integrated approach | 7/5/22 | 1 | Longmisa | Farmer & Farm women |  |  |  | 8 | 16 | 24 | 8 | 16 | 24 |
| piggery | Sustainable approach towards piggery production and management | 22/6/22 | 1 | Chuchuyimpang | Farmer & Farm women |  |  |  | 2 | 16 | 18 | 2 | 16 | 18 |
| poultry | Poultry production in scientific system | 23/6/22 | 1 | Chuchuyimpang | Farmer & Farm women |  |  |  | 2 | 16 | 18 | 2 | 16 | 18 |
| piggery | Scientific approaches towards piggery farming | 22/7/22 | 1 | Sungkomen | RY |  |  |  | 12 | 9 | 21 | 12 | 9 | 21 |
| piggery | Sustainable piggery farming | 28/7/22 | 1 | Mongsenyimti | Farmer & Farm women |  |  |  | 7 | 11 | 18 | 7 | 11 | 18 |
| piggery | Piggery production and management | 31/8/22 | 1 | Changtongya | RY |  |  |  | 11 | 16 | 27 | 11 | 16 | 27 |
| piggery | Scientific approaches towards piggery farming | 16/11/22 | 1 | Waromong | Farmer & Farm women |  |  |  | 24 | 14 | 38 | 24 | 14 | 38 |
| piggery | Sustainable piggery farming | 17/11/22 | 1 | Nokpu | Farmer & Farm women |  |  |  | 11 | 12 | 23 | 11 | 12 | 23 |

(D) Vocational training programmes for Rural Youth

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crop / Enterprise | Date | Duration | Area of training | Training title\* | No. of Participants | | | | | | | | | Impact of training in terms of Self employment after training | | | | Whether Sponsored by external funding agencies |
| General | | | SC/ST | | | Total | | |
| M | F | T | M | F | T | M | F | T | Type of enterprise ventured | No. of units | No. of persons employed | Avg. Annual income generated through enterprise |
| Organic Farming | 9-15/ 12/22 | 7 | Organic Farming | Organic Farming |  |  |  | 5 | 10 | 15 | 5 | 10 | 15 |  |  |  |  | SAMETI Nagaland  Rs. 42000 |
| Horticulture crops | 20-25/  8/22 | 6 | Fruits & Vegetables | Organic production of Fruits and Vegetables |  |  |  | 3 | 17 | 20 | 3 | 17 | 20 |  |  |  |  | SAMETI Nagaland  Rs. 42000 |

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

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| On/ Off/ Vocational | Beneficiary group (F/ FW/ RY/ EP) | Date (From- To) | Duration (days) | Discipline | Area of training | Title | **No. of Participants** | | | | | | | | | **Sponsoring Agency** | **Amount of fund received** |
| **General** | | | **SC/ST** | | | **Total** | | |
| M | F | T | M | F | T | M | F | T |  |  |
| On | RY | 9th to 15 Dec 2022 | 7 | Agronomy | Organic Farming | Training on Organic farming |  |  |  | 5 | 10 | 15 | 5 | 10 | 15 | SAMETI Nagaland | 42000 |
| Off | RY | 20th to 25th Aug 2022 | 6 | Horticulture | Organic production | Organic production of Fruits and Vegetables |  |  |  | 3 | 17 | 20 | 3 | 17 | 20 | SAMETI Nagaland | 42000 |
| Off | F | 27th to 29th Jan.2022 | 3 | Animal Sc. | piggery | Piggery production and mangement |  |  |  | 9 | 36 | 45 | 9 | 36 | 45 | MFAH&D, Govt. of India | 40000 |
| Off | F | 3th to 5th Feb. 2022 | 3 | Animal Sc. | piggery | Scientific approach towards piggery farming for better productivity |  |  |  | 15 | 18 | 33 | 15 | 18 | 33 | MFAH&D, Govt. of India | 40000 |
| Off | F | 10th to 12th Feb. 2022 | 3 | Animal Sc. | piggery | Training on Scientific pig production |  |  |  | 15 | 27 | 42 | 15 | 27 | 42 | MFAH&D, Govt. of India | 40000 |
| Off | F | 17th to 19th Feb. 2022 | 3 | Animal Sc. | piggery | Piggery production and management |  |  |  | 18 | 19 | 37 | 18 | 19 | 37 | MFAH&D, Govt. of India | 40000 |
| Off | F | 24th to 26th Feb. 2022 | 3 | Animal Sc. | piggery | Training on Scientific pig production |  |  |  | 11 | 23 | 34 | 11 | 23 | 34 | MFAH&D, Govt. of India | 40000 |

3.4.Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2021

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl | Extension Activity | Topic | Date and duration | No. of activities | Participants | | | | | | | | | | | |
| General | | | SC/ST | | | Extension Officials | | | Grand Total | | |
| M | F | T | M | F | T | M | F | T | M | F | T |
| 1 | Diagnostic visits |  | Jan- Dec | 8 |  |  |  | 17 | 22 | 39 | - | - | - | 17 | 22 | 39 |
| 2 | Scientists visit to farmers field | Resource conservation- site selection for jalkhund & poly lining of jakhund, scouting of pests and diseases of vegetables and field crops | Jan-Dec | 208 |  |  |  | 157 | 154 | 311 | - | - | - | 157 | 154 | 311 |
|  | Kisan Gosthi | Streamlining ways to tackle blight problems in seed potato, community and its role in management of Fall Army Worm | June, July | 2 |  |  |  | 19 | 17 | 36 |  |  |  | 19 | 17 | 36 |
| 3 | Method Demonstrations | -Method of fertilizer application  - Construction of low cost rain water harvesting- Jalkhund  - Methods & preparation of farm compost  - Vermi-composting  - Process of making enriched compost | Apr’22, Aug’22, Sept’22,  Oct’22, Nov’22, Jan’23, Feb ’22, Mar’22 | 14 |  |  |  | 40 | 84 | 124 | - | - | - | 40 | 84 | 124 |
| 4 | Group meetings/ Discussion | Seed Storage and preservation  Formation of farmers group, commodity interest group, collective marketing, Village level marketing committee etc. | Mar, Jul, Aug & Sept | 11 | - | - | - | 104 | 113 | 217 | - | - | - | 104 | 113 | 217 |
| 5 | Field Day |  | Jan, Dec | 2 |  |  |  | 11 | 16 | 47 |  |  |  | 11 | 16 | 47 |
| 6 | Lecture delivered as resource person | -Composting of bio-degradable wastes  -Millet and its importance on Human health  -Nutricereals | May, Jun, Sept, Oct & Dec | 6 | - | - | - | 149 | 145 | 294 | - | - | - | 149 | 145 | 294 |
| 7 | Newspaper publication | -Feed conversion ratio of different livestock  -Disadvantages of using same blood related pigs for breeding | 21.02.22, 07.08.22 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Radio talk | -Water requirements of different domesticated animals  -Farming system and mixed farming system in relation to livestock farming  -Feed conversion ratio of different livestock | 13.02.22, 26.02.22, 13.03.22 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | Advisory services (mobile talk/ text messages) | -Mobile talk/Text messages on Crop, Livestock, Awareness, Weather etc | Jan-Dec | 129 |  |  |  |  |  |  |  |  |  |  |  | 14880 |
| 10 | Animal Health Camp | -Health camp for piggery and poultry | 15.03.22, 21.03.22, 16.11.22, 17.11.22 | 4 |  |  |  | 48 | 59 | 107 |  |  |  | 48 | 59 | 107 |
| 11 | Publication of extension folders | -Azolla as feed for livestock and poultry  -Feed conversion ratio of different livestock | 05.07.22, 06.07.22 | 2 |  |  |  | 100 | 100 | 200 |  |  |  | 100 | 100 | 200 |
| 12 | Film show | -Homestead azolla cultivation  -Soil fertility management- manures, fertilizers and INM  -Resource conservation- an awareness of the global water | 5th Feb, 21st Jun and 16th Jul’22 | 3 |  |  |  | 51 | 57 | 108 |  |  |  | 51 | 57 | 108 |
| 13 | Farmers Scientist Interaction | -Soil Nutrient management- different types of fertilizers and INM | 13th Jan | 1 |  |  |  | - | 37 | 37 |  |  |  | - | 37 | 37 |
| 14 | Awareness campaign | -Jal Shakti Abhiyan  Swachhta Special campaign 2.0 | 28th July  2nd- 31st Oct | 2 |  |  |  | 120 | 211 | 331 |  |  |  | 120 | 211 | 331 |
| 15 | Farmers visit/ students visit to KVK | -PM Kisan Samman Sanmelen | 17th Oct | 2 |  |  |  | 26 | 50 | 58 |  |  |  | 26 | 50 | 76 |
| 16 | Celebration of important days | -International womens day  World Soil Day  1 day National workshop on Innovative Agriculture  -Kisan Bhadidari Prathnikta Hamari Campaign cum Kisan mela  -ICAR foundation day & 86th Interaction of Hon’Agri Minister with DFI  -Azadi ka Amrit Mahotsav on Awareness on balanced use of fertilizers & region specific agroforestry | 8th Mar  5th Dec  25th Apr  26th Apr  21st Jun  21st Jun | 6 |  |  |  | 78 | 275 | 353 |  |  |  | 78 | 275 | 353 |
| 17 | Kisan mela | -Kisan Bhadidari Prathmikta Hamari Campaign cum Kisan Mela  -Jal Shakti Abhiyan Kisan Mela | 26th Apr & 23rd Sept | 2 |  |  |  | 118 | 134 | 252 |  |  |  | 118 | 134 | 252 |
| 18 | Swachhta Action Plan | -Agri waste management using vermicomposting | 8th Sept & 3rd Oct | 3 |  |  |  | 18 | 26 | 44 |  |  |  | 18 | 26 | 44 |
| 19 | Newspaper coverage | -Celebration of important days and press release of activities conducted | 8th mar, 27th Apr, 21st Jun, 28th Aug, 30th Aug, 23rd Sept, 20th Oct, 28th Oct & 6th Dec | 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| **Total** | | | | **429** |  |  |  |  |  |  |  |  |  | **1056** | **1500** | **17456** |

3.5 Production and supply of Technological products during 2022

A. SEED MATERIALS

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Major group/class | Crop wise | Variety | Quantity (qt) | Value (Rs.) | Number of recipient/ beneficiaries | | | | |
| General | | SC/ST | | Grand Total |
| M | F | M | F |  |
| PULSES | Field Pea | Aman | 4 | 12000 |  |  | 10 | 30 | 40 |
| **Total** | | | **4** | **12000** |  |  | **10** | **30** | **40** |

A1. SUMMARY of Production and supply of Seed Materials during 2021

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Major group/class | Quantity (q) produced | Quantity (q) supplied | Value (Rs.) of quantity produced | Number of recipient/ beneficiaries | | | | |
| General | | SC/ST | | Grand Total |
| M | F | M | F |  |
| 2 | Pulses | 4 | 4 | 12000 |  |  | 10 | 30 | 40 |
| TOTAL | | 4 | 4 | 12000 |  |  | 10 | 30 | 40 |

B. Production and supply of Planting Materials(Nos. in No.) during 2022

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Major group/class | Crop | Variety | Quantity (In No.) produced | Quantity (In No.) supplied | Value (Rs.) of quantity produced | Number of recipient/ beneficiaries | | | | |
| General | | SC/ST | | Grand Total |
| M | F | M | F |  |
| **VEGETABLES** | Chilli | 1. Meghana | 4000 | 4000 | 2000 |  |  |  | 20 | 20 |
| Broccolli | Green Magic | 6000 | 6000 | 3000 |  |  | 10 | 20 | 30 |
| Brinjal | Profit Raj | 6000 | 6000 | 3000 |  |  | 10 | 20 | 30 |
| Cauliflower | Madhuri | 4000 | 4000 | 2000 |  |  | 10 | 10 | 20 |
| **PLANTATION CROP** | Coffee | *C.Arabica* | 2500 | 2500 | 100000 |  |  |  | 10 | 10 |

C. Production of Bio-Products during 2022

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Major group/class | Product Name | Species | produced Quantity | | Value (Rs.) | Number of Recipient /beneficiaries | | | | |
| No | (Kg) |
| General | | SC/ST | | Grand Total |
| M | F | M | F |  |
| BIOAGENTS |  |  |  |  |  |  |  |  |  |  |

D. Production of livestock during 2022

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Type/ category of livestock | Breed | Quantity | | Value (Rs.) | Number of Recipient beneficiaries | | | | |
| (Nos) | Kgs |
| General | | SC/ST | | Total |
| M | F | M | F |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

3.6. Literature Developed/Published (with full title, author & reference) during 2022

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):

(B) Articles/ Literature developed/published

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Title /and Name of Journal** | **Authors name** | **Number of copies** | |
| **Produced/ published** | **Supplied/ distributed** |
| Leaflets/folders | 1. Azolla as feed for livestock and poultry  2. Feed conversion ratio of different livestock | Dr. Sarendi Walling | 200 | 200 |
| TOTAL |  |  | 200 | 200 |

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

(C) Details of Electronic Media Produced

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number produced |
| 1. |  |  |  |

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

**I. Title of the Success story: Seed Potato Production**

Potato is one among the important potential food crops of Longjang village under Mokokchung district. Climatic condition favours both spring and autumn cropping. Dispite its demands farmers who are mostly marginal grow only in small areas with degenarated seeds from grocery stores which harbours many diseases due to non-availability of seeds and high cost of quality seed tubers coupled with lack of knowledge on scientific production leading to poor yield. These constraints have become the base for the farmers to opt for degenerated seeds and low yielding small tuber size local cultivars for cultivation.

**Beneficiary details**

Farmers Name : Meyatoshi Aier

Address : Longjang village

Contact details: 7005630034

Aadhaar No : 616117583147

**Locations**

Longitude : 94.5827830

Latitude : 26.5048720

**Baseline survey brief:**

Basing on the climatic suitability, PRA was carried out. Preliminary survey suggested that 80% of the farmers were marginal farmers who practice agriculture for sustenance. Survey also showed that different types of vegetables were cultivated including other sub-tropical fruit crops. However farmers were not into commercial agriculture except for few farmers who sell their surplus in Mokokchung daily market occasionally. Most farmers were willing to venture into profit earning agriculture but technical knowledge, economy, quality seed inputs and market were the main limitations. Based on the outcome seed potato production was streamlined as one important option for sustainable income for the marginal farmers.

**Inputs distribution:**

There were many farmers who were willing to adopt and undertake in seed potato production, but because of the limited seed inputs only few farmers were selected among whom Meyatoshi Aier, a young progressive farmers was also a beneficiary. He was supplied with 500 kg of seed potato to undertake its production program in the year 2021. Apart from seeds implements like Knapsack sprayer, organic inputs were also provided to him.

**Scientific interventions made:**

\* Scientific Seed Potato production program

\* Development of potato seed village

**Trainings and demonstrations attended by the beneficiary:**

Mr. Meyatoshi Aier attended both 1st phase and 2nd phase training program organized by the Kendra on quality seed potato production technology and Post harvest management of seed potato in the year 2021 and 2022 respectively. At present he is the main farmer coordinating at village level for all seed village programs and activities.

**Change in income and economics with cost benefit ratio**

**Year 2021:**

Cost of production (Rs) : 28000 (inclusive of seed cost)

Total Gross income (Rs) : 80750

Net Income (Rs) : 52750

C:B Ratio : 2.88

**Year 2022**

Cost of production (Rs) : 48000

Total Gross income (Rs) : 165200

Net Income (Rs) : 117200

C: B Ratio : 3.44

**Impact (Yield enhancement, income, etc.)**

In the first year of the programme (2021), from 800 kg of seed potato supplied for production Mr. Meyatoshi Aier harvested a total of 3950 kg of potato. Out of which 1470kgs were seed grade and the rest table purpose. All the seed grade produced in the first year was kept as own seeds for the next season. In the 2022, all the seed kept for seed purpose were sown which produced a total of 8260 kg earning a total gross income of Rs.165200. In a span of two years Mr. Meyatoshi Aier has increased twofold his income under KVK interventions. He has not only earn better income from potato seed production but has produced and made available 2500kgs of quality seed for his villages who will also be partnering him in producing better quality seeds for other farmers. Krishi Vigyan in collaboration with NABARD has adopted the whole Longjang village as potato Seed village in the year 2022. Mr. Meyatoshi Aier has become a model farmer for those farmers who are willing to adopt new technologies for better livelihood but are restrained by lack of knowledge and poor economy.

  

L-Seed potato production (2021) R-Farmers from other villages visiting Meyatoshi’ field Healthy potato crops



Meyatoshi with KVK Officials Treatment of graded/sorted seed and storage

**II. Title of the Success story:** INTEGRATED FARMING

**Name of KVK:** Mokokchung

**Contact Details:**

Mr T. Chuba.

Yisemyong, Chuchuyimlang block,

Mokokchung,

9856551527

**Brief on Background information:**

Mr T. Chuba is a farmer from Yisemyong village, who owns a total of 1.6 ha of land where he used 0.8ha for growing Maize and rearing honey bee, he also rears Local chicken but earning only Rs 67000/-annually. Despite his maize cultivation, rearing honeybee and local Chicken his annual income from these enterprises didn’t provide much for his family. Though he was cultivating Maize and rearing honey bee along with local Chicken, his farm income was low due to non application of technology in his farming. In 2015 he attended a training program organized by KVK on Integrated Farming system which made him realize the importance of technology application in farming. Under DFI program he was also a beneficiary and received quality seeds, scientific bee box and improved poultry chicks.

|  |  |
| --- | --- |
| **Year of adoption of the Intervention by Farmer for Doubling Income** | 2016-2017 |
| **Total land holding of the farmer in ha. (Where intervention is taken up)** | 1.6 |
| **Crops/ enterprises under taken before** | Maize(Local), Honeybee, Chicken(Local) |
| **Area (ha.) during the initial years** | 0.8 |
| **Current status of land holding (include area expansion & reason of expansion)** | 1.6 |
| **Problems Faced by Farmers before** | Lack of awareness in improved Technologies. |

**Details of the technology:**

**Integrated Farming System: Agri + Poultry + Honey Bee**

Under Agriculture, improved variety of Maize RCM-76, Rainbow Rooster under poultry enterprise and upgrading of conventional bee box to scientific bee box in honey bee rearing

**Performance of Technological Intervention (Result):**

In 2016 he integrated the three components into scientific farming system. With improved Maize variety (RCM-76), improved poultry strain (Rainbow rooster) along with scientific bee box he started integrated farming system. That year his earning from three enterprises increased to Rs. 150525/-

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Before intervention:** | | | | | | | |
| **Components** | **Name** | **Area(ha)/nos** | **Yield(Q)** | | **Gross income(Rs)** | **Net income(Rs)** | **B.C** |
| **Field crops** | Maize(Local) | 0.70 | 12q | | 18400 | 12400 | 3.07 |
| **Honeybee** | Honey | 17 boxes | 1q | | 45000 | 30000 | 3 |
| **Poultry** | Local | 4 | 0.05 | | 1200 | 800 | 1.5 |
| **:** | | | | | | | |
| **After intervention** | | | | | | | |
| **Field crops** | Maize (RCM-76) | 1 | | 32q | 62000 | 48500 | 4.59 |
| **Honeybee** | Honey | 50boxes | | 2.55q | 114750 | 95250 | 5.88 |
| **Poultry** | Rainbow Roaster | 25 | | 0.7q | 15625 | 6775 | 1.76 |

At present Mr T. Chuba is proudly earning more than Rs. 250000/- annually with more to support his family comfortably.

**Horizontal spread of technology:**

Integrated farming module consisting of Agri + Poultry + Honeybee adopted by Mr. T. Chuba, which is replicated by other farmers in the village may not consist of the same component with respect to Agriculture however, improved production technology with improved variety, improved poultry rearing with improved strain and honey bee rearing in scientific bee boxes has been well adopted by 80% of the villages as of 2022 bringing better income to the farmers of the village.

   

Rainbow Rooster reared by farmer

Scientific bee boxes provided by KVK

Harvested RCM-76

Maize field RCM-76

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

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

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

3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women : PRA, Training Need Analysis, Group discussion, Interaction

- Rural Youth : PRA, Training Need Analysis, Group discussion, Interaction

- Extension personnel : Needed Technologies based on their role as extension functionaries

3.11 Field activities

i. Number of villages adopted : 12

ii. No. of farm families selected : 4500

iii. No. of survey/PRA conducted : 13

3.12. Activities of Soil and Water Testing

Status of establishment of Lab : Completed

1. Year of establishment :

2. List of equipments purchased with amount :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Name of the Equipment | | | Qty. | Cost |
| S&WT lab | Mini lab/ Mridaparikshak | Manufacturer |
| 1 |  | Mridaparikshak | Nagarjuna | 2 |  |
| Total | |  |  | 2 |  |

3. Details of samples analyzed (2022) :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Details | No. of Samples analysed | No. of Farmers | No. of Villages | Amount( In Rupees) realized |
| Soil Samples | 100 | 100 | 6 | Nil |
| Water Samples |  |  |  |  |
| Plant Samples |  |  |  |  |
| Petiole Samples |  |  |  |  |
| Total | 100 | 100 | 6 | Nil |

1. Details of Soil Health Cards (SHCs) 2022
2. No. of SHCs prepared :100
3. No. of farmers to whom SHCs were distributed : 100
4. Name of the Major and Minor nutrients analysed : pH, OC, NPK, S, Fe, Zn, B
5. No. of villages covered : 6

3.13. Details of SMS/ Voice Calls sent on various priority areas

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Message type** | **Crop** | | **Livestock** | | **Weather** | | **Marketing** | | **Awareness** | | **Other Ent.** | | **Total** | |
| **M** | **B** | **M** | **B** | **M** | **B** | **M** | **B** | **M** | **B** | **M** | **B** | **M** | **B** |
| Text only | 57 | 1271 | 6 | 462 | 54 | 10800 |  |  | 12 | 2047 |  |  | 129 | 14880 |
| Voice only |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Voice and Text both |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | **57** | **1271** | **6** | **462** | **54** | **10800** |  |  | **12** | **2047** |  |  | **129** | **14880** |

**\*M : No. of messages**

**\*\*B : No. Of beneficiaries**

3.14 Contingency planning for 2022

a. Crop based Contingency planning

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Contingency (Drought/ Flood/ Cyclone/ Any other please specify) | Proposed Measure | Proposed Area (In ha.) to be covered | Number of beneficiaries proposed to be covered | | |
| General | SC/ST | Total |
|  | **Introduction of new variety or crop** | **5** |  | **10** | **10** |
|  | **Introduction of Resource Conservation Technologies** | **5** |  | **20** | **20** |
|  | **Distribution of seeds and planting materials** | **10** |  | **40** | **40** |
|  | **Any other (Please specify)** |  |  |  |  |
| Long dry spell | **Already sown crops**  i. In-situ moisture conservation to safeguard the standing crop from moisture stress.  ii. Mulching with crop residue or thin plastic sheets if the water stress continues.  iii. Raising nursery of crops in which transplanting is easily possible for filling the gaps | 5 |  | 20 | 20 |

a. Livestock based Contingency planning

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Contingency (Drought/ Flood/ Cyclone/ Any other please specify) | Number of birds/ animals to be distributed | No. of programmes to be undertaken | No. of camps to be organized | Proposed number of animals/ birds to be covered through camps | Number of beneficiaries proposed to be covered | | |
| General | SC/ST | Total |
|  |  |  |
| Subsidiary income generation in case of crop failures | 1000 birds | 5 | 2 | 1000 birds |  | 100 | 100 |

* 1. IMPACT
  2. Impact of KVK activities (Not to be restricted for reporting period only)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) | |
| Before (Rs./Unit) | After (Rs./Unit) |
|  |  |  |  |  |

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

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

5.0. LINKAGES ESTABLISHED

5.1 Functional linkage with different organizations established during 2022

|  |  |
| --- | --- |
| Name of organization | Nature of linkage |
| State Agricultural Research Station (SARS) Yisemyong | Joint implementation in conducting training, demonstration, meeting, trials etc. |
| DAO, DHO, DVO, DSCO, DFO,LRD in the district, ATMA Mokokchung | Conducting training, demonstration programmes |
| ICAR, Jharnapani, Nagaland University | Consultation, meeting and exchange of technologies |
|  |  |

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

* 1. List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2022

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the scheme/ special programme** | Activity | Date/ Month of initiation | Funding agency | Amount (Rs.) |
| **Campaign on Nutri-Garden and tree plantation.** | Seeds distribution, Training, Interaction | 17/9/22 | ATARI |  |
| **Swachhta Action Plan** | Cleanliness drive, training, awareness | 2/10/22 To 31/10/22 | ATARI | - |
| **World Soil Health Day** | Training, Soil card distribution | 5/12/22 |  |  |
| **Potato Seed Village Program** | Training Demonstration , Seed Production | Jan’22 to Dec ‘22 | NABARD | 500000 |

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Programme** | **Nature of linkage** | **Remarks** |
| **1.** | Training, trial & Demonstration, Exhibition, Joint field visit | Resource person and programme Planning, implementation and monitoring | Actively participating in programme implementation |

5.4 Give details of programmes implemented under National Horticultural Mission

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | Programme | Nature of linkage | Constraints if any |
|  |  |  |  |

5.5 Nature of linkage with National Fisheries Development Board

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | Programme | Nature of linkage | Remarks |
| 1 |  |  |  |

6. Status of NARI during 2022

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of Nutri- SMART Village** | **T1** | **T2** | **T3** | **Area (ha)** | **No of Beneficiarie** | **Name of crop** | **T1** | | | **T2** | | | **T3** | | |
| **Name of variety** | **Yield (q/ha)** | **Consumption (kg)** | **Name of variety** | **Yield (q/ha)** | **Consumption (kg)** | **Name of variety** | **Yield (q/ha)** | **Consumption (kg)** |
| Kupza | 1.Bendangrenla  2.Tekachila | 1.Temjenjungla  2.Moasenla | 1.Medemsangla  2.Temjennaro | 0.155 | 6 | Broccoli | Green Magic | 102 | 10.5 | Green Magic | 104 | 12.5 | Green Magic | 95.2 | 10 |

.

7. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2022

7.1 Performance of demonstration units (other than instructional farm)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Demo Unit  (Name and No.) | Year of estd. | Area | Details of production | | | Amount (Rs.) | | Remarks |
| Variety/ species/ breed | Type of Produce | Qty. | Cost of inputs | Gross income |
| 1 |  |  |  |  |  |  |  |  |  |

7.2 Performance of instructional farm (Crops) including seed production during 2022

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name  of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
| Variety | Type of Produce | Qty. | Cost of inputs | Gross income |
| Broccoli | 1/9/22 | 5/12/22 | 0.5 | Green Magic | Vegetable | 50kg | 500 | 3000 |  |
| Tomato | 15/5/22 | 4/7/22 | Arka Samrat | Vegetable | 50kg | 250 | 2000 |  |
| Cowpea | 14/4/22 | 16/7/22 | F1 Hybrid | Vegetable | 20kg | 250 | 1000 |  |
| King chilli | 15/5/22 | 17/8/22 | Local | Vegetable | 20kg | 600 | 6000 |  |

7.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.) during 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No. | Name of the Product | Qty | Amount (Rs.) | | Remarks |
| Cost of inputs | Gross income |
|  |  |  |  |  |  |

7.4 Performance of instructional farm (livestock and fisheries production) during 2022

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

7.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Unit/ structure during 2022

| Date | Title of the training course | Client (PF/RY/EF) | No. of Courses | No. of Participants including SC/ST | | |
| --- | --- | --- | --- | --- | --- | --- |
| Male | Female | Total |
| 4th May 2022 | Awareness cum training on rain water harvesting and management under Jal Shakti Abhiyan | PF | 1 | 19 | 37 | 56 |
| 28th July 2022 | Awareness training on water conservation for under Jal Shakti Abhiyan | PF | 1 | 6 | 24 | 30 |

7.6. Utilization of hostel facilities (Month-Wise) during 2022

Accommodation available (No. of beds):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Months | Title of the training course/Purpose of stay | Duration of Training | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|  |  |  |  |  |  |
| Total |  |  |  |  |  |

8. FINANCIAL PERFORMANCE

8.1 Details of KVK Bank accounts

|  |  |  |  |
| --- | --- | --- | --- |
| **Bank account** | **Name of the bank** | **Location/ Branch** | **Account Number** |
| With Host Institute | State Bank of India | Lerie, Kohima | 01000050059 |
| With KVK | State Bank of India | Mokokchung, Main Branch | 11361013166 |
| Revolving Fund | Nagaland State Cooperative Bank | Mokokchung | 20003392 |

8.2 Utilization of funds under CFLD on Oilseeds and Pulses (Rs. In Lakhs) if applicable during 2022

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Released by ICAR/ATARI (in lakh) | | Expenditure (in lakh) | | Unspent balance as on 31st March, 2021 |
| Amount | Amount | Amount | Amount |
|  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |

8.3 Utilization of KVK funds during the year 2022

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.**  **No.** | **Particulars** | **Sanctioned (in Lakh)** | **Released**  **(in Lakh)** | **Expenditure**  **(in Lakh)** |
| **A. Recurring Contingencies** | | | | |
| 1 | Pay & Allowances | 249.52784 | 249.52784 | 249.52784 |
| 2 | Traveling allowances | 3.00000 | 3.00000 | 3.00000 |
| 3 | Contingencies | **19.00000** | **19.00000** | **19.00000** |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 6.65000 | 6.65000 | 6.65000 |
| *B* | POL, repair of vehicles, tractor and equipments |
|  | Working Capital |  |  |  |
| *C* | Meals/refreshment for trainees | 12.35000 | 12.35000 | 12.35000 |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) |
| *E* | Frontline demonstration except oilseeds and pulses |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) |
| *G* | Training of extension functionaries |
| *H* | Maintenance of buildings |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory |
| *J* | Library |  |  |  |
| *K* | KSHAMTA |  |  |  |
| *L* | NARI |  |  |  |
| *M* | HRD | 0.80000 | 0.80000 | 0.80000 |
| TOTAL (A) | | 272.32784 | 272.32784 | 272.32784 | 272.29456 |
| **B. Non-Recurring Contingencies** | | | | |
| 1 | Works | 1.00000 | 1.00000 | 1.00000 |
| 2 | Equipments including SWTL & Furniture | 6.30000 | 6.30000 | 6.30000 |
| 3 | Farm Equipment | 1.92000 | 1.92000 | 1.92000 |
| 4 | Furniture | 4.25000 | 4.25000 | 4.25000 |
| 5 | Library (Purchase of assets like books & journals) | 0.15000 | 0.15000 | 0.15000 |
| TOTAL (B) | | 13.62000 | 13.62000 | 13.62000 | 280.79456 | |
| C. REVOLVING FUND | |  |  |  |
| **GRAND TOTAL (A+B+C)** | | **28594784** | **28594784** | **28594784** |

8.4 Status of Revolving Fund (Rs. in lakhs) for last three years

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Opening balance as on 1st April** | **Income during the year** | **Expenditure during the year** | **Net balance with KVK (in lakh)**  **As on 31st Dec 2022** |
| **2022 (seed money)** | **0.85840** | **0.68000** | **0.52000** | **1.01840** |

Note: No KVK must leave this table blank

8.5 Please include information which has not been reflected above.

8.6 Constraints and Suggestion (Provide point-wise if any, for recommendation)

(a) Administrative

(b) Financial

(c) Technical



# (Signature)

Sr. Scientist cum Head