

ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2022
 (January 2022 to December 2022)

1. GENERAL INFORMATION ABOUT THE KVK

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

| Address with PIN code | Telephone | | E mail | Website address & No. of visitors (hits) |
|---|-----------|-----|--------------------|--|
| | Office | FAX | | |
| Krishi Vigyan Kendra, Junagadh Agricultural University, Morbi Dist: Morbi (Gujarat) – 363641 | - | - | kvkmorbi@gmail.com | www.jau.in |

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

| Address | Telephone | | E mail | Website address |
|--|--------------|--------------|------------|-----------------|
| | Office | FAX | | |
| Junagadh Agricultural University, Junagadh (Gujarat) | 0285-2672080 | 0285-2672653 | dee@jau.in | www.jau.in |

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

| Name | Telephone / Contact | | |
|------------------|---------------------|-------------|--------------------|
| | Office | Mobile | Email |
| Dr. L. L. Jivani | - | 94269 72590 | lljivani@gmail.com |

1.4. Date and Year of sanction: 2017 (Grant & Staff from March-2017)

1.5. Staff Position (as on December, 2022)

| Si. No. | Sanctioned post | Name of the incumbent | Mobile No. | Discipline | If Permanent, Please indicate | | Date of joining | If Temporary, pl. indicate the consolidated amount paid (Rs./month) |
|---------|-----------------------------|-----------------------|------------|-------------------------|-------------------------------|-------------------|-----------------|---|
| | | | | | Current Pay Band | Current Grade Pay | | |
| 1. | Senior Scientist and Head | Dr. Lalji L. Jivani | 9426972590 | Genetics&Plant Breeding | 131400 - 217100 | UL-13A | 01/12/20 | - |
| 2. | Subject Matter Specialist | D. A. Saradava | 9426784628 | Plant Protection | 57700 - 182400 | UL-10 | 01/03/17 | - |
| 3. | Subject Matter Specialist | Dr. K.N. Vadaria | 9824290555 | Agronomy | 57700 - 182400 | UL-10 | 01/06/22 | - |
| 4. | Subject Matter Specialist | Vacant | - | - | - | - | - | - |
| 5. | Subject Matter Specialist | Vacant | - | - | - | - | - | - |
| 6. | Subject Matter Specialist | Vacant | - | - | - | - | - | - |
| 7. | Subject Matter Specialist | Vacant | - | - | - | - | - | - |
| 8. | Agriculture Officer | Gamansinh S. Zala | 8780953478 | B.Sc. Agri. | Fix Pay | Fix Pay | 03/08/18 | - |
| 9. | Programme Assistant | Vacant | - | - | - | - | - | - |
| 10. | Computer Programmer | R. R. Sida | - | B.C.A. | 39900-126600 | L-7 | 07/03/19 | - |
| 11. | Farm Manager | Vinuji V. Thakor | 8155049089 | B.Sc. Agri. | Fix Pay | Fix Pay | 31/07/18 | - |
| 12. | Accountant / Superintendent | Vacant | - | - | - | - | - | - |
| 13. | Stenographer | N.M. Vadhadiya | 9925182898 | M.A. B.Ed. | 25500-81100 | L-4 | 01/03/22 | - |
| 14. | Driver 1 | Vacant | - | - | - | - | - | - |
| 15. | Driver 2 | Vacant | - | - | - | - | - | - |
| 16. | Supporting staff 1 & 2 | Vacant | - | - | - | - | - | - |

1.6. Total land with KVK (in ha):

| S. No. | Item | Area (ha) |
|--------|---|----------------|
| 1 | Under Buildings and Road | 2.0 ha |
| 2. | Under Demonstration Units | 1.8 ha |
| 3. | Under Crops | 8.0 ha |
| 4. | Horticulture | Nil |
| 5. | Others (Barren submerged under Machchhu-3 dam , Bund and Water drain) | 14.4 ha |
| 6. | Total | 26.2 ha |

1.7. Infrastructural Development:

A) Buildings

| S. No. | Name of building | Source of funding | Stage | | | | | |
|--------|-----------------------------------|-------------------|-----------------|--------------------|-------------------|---------------|--------------------|------------------------|
| | | | Complete | | | Incomplete | | |
| | | | Completion Year | Plinth area (Sq.m) | Expenditure (Rs.) | Starting year | Plinth area (Sq.m) | Status of construction |
| 1. | Administrative Building | KVK | 2019-20 | 575.32 | 143.00 Lacs | - | - | - |
| 2. | Farmers Hostel | KVK | 2019-20 | 443.96 | 61.00 Lacs | - | - | - |
| 3. | Staff Quarters (6) | - | - | - | - | - | - | - |
| 4. | Demonstration Units (2) | SAU | 2019-20 | 18.0 | 40000/- | - | - | - |
| 5 | Fencing | JAU | 2017-18 | 4535 | 7,95,480/- | - | - | - |
| 6 | Rain Water harvesting system | - | 2018-19 | - | 2,00,000/- | - | - | - |
| 7 | Threshing floor | JAU | 2020-21 | 400 | 3,15,838/- | - | - | - |
| 8 | Farm godown | - | - | - | - | - | - | - |
| 9 | ICT lab | - | - | - | - | - | - | - |
| 10 | Other (Ground water storage tank) | SAU | 2019-20 | 1.40 lac ltr. | 4.6 Lacs | - | - | - |

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Running | Present status |
|-------------------------------|------------------|------------|--------------------|----------------|
| Tractor Mini Captain 9.5 H.P. | 2005 | 165000/- | - | Working |
| Tractor Massey DI-241 | 2017 | 607137/- | - | Working |
| Mahindra Bolero | 2019 | 800000/- | 47000 kms | Working |
| | | | | |

C) Equipment & AV aids

| Name of the equipment / Implements | Year of purchase | Cost (Rs.) | Present status |
|------------------------------------|------------------|------------|----------------|
| Computer System Acer 18.5 | 2017 | 34115/- | Working |
| Computer System Acer 18.5 | 2017 | 34115/- | Working |
| Printer MF 3010 canon | 2017 | 10266/- | Working |
| Printer LBP 6230 canon | 2017 | 8761/- | Working |

| Name of the equipment / Implements | Year of purchase | Cost (Rs.) | Present status |
|---|------------------|------------|----------------|
| Computer System SIS Agiledag-2277 LG | 2010 | 24210/- | Working |
| Computer System Intel core i3 processor HCL | | 34596/- | Working |
| Printer MF 4350d canon | | 14327/- | Working |
| Xerox Machine RICH0 Digital | 2013 | 113755/- | Working |
| Computer system Acer | 2009 | 31635/- | Working |
| Computer system Acer | 2010 | 32270/- | Working |
| Printer Samsung | 2013 | 4579/- | Working |
| Computer system Acer | 2009 | 30968/- | Working |
| LG smart television | 2021 | 189975/- | Working |

1.8. Details of SAC meeting conducted in the year:

| Date | Name and Designation of Participants | Salient Recommendations | Action taken |
|------------|--|---|---|
| 09/02/2023 | Dr. V. P. Chovatia Hon'ble Vice Chancellor, J.A.U., Junagadh | Popularize <i>iKrushi Sanhita</i> mobile application among farmers community through extension activities. | Popularization was done in training programmes |
| | Dr. H. M. Gajipara Director of Research & Director of Extension Education, JAU, Junagadh | Adverse weather condition in normal season & pest attack, advance advisory to farmers community through SMS and Whats App | Such advisory was issued as and when required |
| | Dr. L. L. Jivani Senior Scientist & Head, KVK, JAU, Morbi, Dist. Morbi | The training on banned pesticides should be organized. | It will included in training programmes |
| | Dr. D. S. Hirpara ADR, DFRS, Targhadia | Advise farmers to take nematode free planting materials. | This will be advised in ensuing programmes |
| | Dr. H. C. Chhodvadia, Associate Extension Educationalist, DEE office, JAU, Junagadh | Accountability of FLD's should be given. | It will be given |
| | Shri A.L. Koradia Representative of District Agriculture Officer, Morbi | Organized technology week with the period when maximum farmers can use newer technology and spread among maximum farmers. | technology week was already organized and efforts are being made to involve more farmers. |
| | Shri S.B. Dalsania, Dy. Director of Agril. (Ext.) Seva Sadan, Morbi | Propose HRD trainings needs of scientists. | More proposals will be made for HRD trainings. |
| | Dr. S.K. Tiwari Nation Horticulture Research & Development Foundation, Naranaka, Rajkot. | | |

| | | | |
|--|--|--|--|
| | Prof. D. A.Saradava Scientist –Plant Protection KVK- Morbi, Dist. Morbi | | |
| | Dr. K.N. Vadaria Scientist –Agronomy KVK- Morbi, Dist. Morbi | | |
| | Prof. Pinki S. Sharma AEE, DEE office, JAU, Junagadh | | |
| | Shri B. H. Kothariya Horticultural Officer, Seva Sadan, Morbi | | |
| | Ghanshyamsinh Jadeja Farmer, Khanpar Morbi | | |
| | Govindbhai P. Sarsavadiya Farmer, Jivapar Morbi | | |
| | Jethabhai A. Jetpariya Farmer, Nasitpar Morbi | | |

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

| S. No | Farming system/enterprise |
|-------|--|
| 1 | Cotton-Wheat/Cotton-Cumin/Groundnut-Wheat/Groundnut-Cumin/Cotton-Summer Sesame |
| 2 | Animal husbandry – crop based enterprise /Dairy product |
| 3 | Farm Waste Management/ Crop residue management |
| 4 | Value addition in Groundnut/ Sesame |

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

| S. No. | Agro-climatic Zone (Planning Commission) | Characteristics |
|--------|--|--|
| 1 | North Saurashtra Agro Climatic Zone Morbi,Wankaner and Tankara (Agro – eco-situation –No.7) | Semi arid – region with annual rainfall 550 - 600 mm. Maximum temp – 44°C, Minimum range – 5 to 12°C & high evaporation |
| 2 | North west agro climatic Zone- 5 Maliya (mi) and Halvad block | Arid to semi arid region with annual rain fall – 500 to 550 mm maximum temp - 45°C, Minimum range – 3 to 12°C & high evaporation |

a) Topography

| S. No. | Agro ecological situation | Characteristics |
|--------|---------------------------|--|
| 1 | Situation No. 7 | Plain & hilly areas in Wankaner Tehsil. |
| 2 | Situation No. 5 | Plain costal region (saline) affected with desertification |

2.3 Soil Types

| S. No | Soil type | Characteristics | Area in ha |
|-------|-----------------------------------|--|------------|
| 1 | Medium black clayey | Low in organic carbon, heavy cracking and clod formation | 202.4 |
| 2 | Alluvial Soil (sand-loam lomy) | Low fertility status, high infiltration rate | 91.8 |
| 3 | Hilly Soil (light) | Undulating topography, low fertility eroded soil | 13.6 |
| 4 | Silty Soil (loomy) | Low infiltration rate, water logging, difficult to cultivate | 5.5 |

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2022)

| S. No | Crop | Area (ha) | Production (000 T) | Productivity (Kg/ha) |
|----------------------------------|-------------|-----------|--------------------|----------------------|
| Major Field crops | | | | |
| 1 | Groundnut | 65215 | 144942 | 2223 |
| 2 | Cotton (Bt) | 134551 | 232705 | 1729 |
| 3 | Sesame | 2132 | 1066.23 | 500 |
| 4 | Castor | 13850 | 36664 | 2647 |
| 5 | Green gram | 1663 | 827.28 | 497 |
| 6 | Black gram | 1900 | 1227.8 | 646 |
| 7 | Fodder | 23868 | 574189 | 24057 |
| 8 | Wheat | 34294 | 102998 | 3003 |
| 9 | Chickpea | 39644 | 65222 | 1645 |
| Major Horticultural crops | | | | |
| 1 | Vegetables | 3140 | 77980.7 | 24835 |

Source: District agriculture department

2.5. Weather data (2022)

| Month | Normal RF(mm) | Month | Normal RF(mm) |
|----------|---------------|--------------|---------------|
| January | 0 | July | 459.5 |
| February | 0 | August | 242.8 |
| March | 0 | September | 84 |
| April | 0 | October | 0 |
| May | 0 | November | 0 |
| June | 13 | December | 0 |
| | | Total | 799.3 |

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

| Category | Population (No) | Production | Productivity |
|---------------------------|-----------------|------------------------|---------------------|
| Cattle | | | |
| <i>Crossbred</i> | 140476 | | 12 lit/Day |
| <i>Indigenous</i> | | | |
| Buffalo | 173285 | | 17 lit/Day |
| Sheep | 93747 | | |
| Goats | 65880 | | |
| Pigs | | | |
| <i>Crossbred</i> | | | |
| <i>Indigenous</i> | | | |
| Rabbits | 79 | | |
| Poultry | | | |
| Hens (<i>Crossbred</i>) | 1022000 | | 3 kg/Bird |
| <i>Desi</i> | | | |
| Category | | Production (Q.) | Productivity |
| Fish (Reservoir) | | | |

2.7. Details of Operational area / Villages

| Taluka / Block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|----------------|--|---|---|--|
| Morbi | Chakampar Jivapar Dharampur Thorala Andarana | Crops: Groundnut, Cotton, Sesame, Wheat, Cumin, Chickpea, Onion, Garlic Enterprises: Dairy business, Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds | (1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3) <i>Phytophthora</i> disease in sesame (4) White grubs infestation in groundnut (5) Stem rot in groundnut (6) Wilt and blight in cumin | (1) IPM and INM in major crops of this area (2) Increase drainage of soil (3) Motivate to farmers for arid horticultural crops (4) Efficient use of irrigation water (5) Judicious use pesticides |
| Tankara | Otala Saraya Neknam Lakhdhargadh Bhutkotda | Crops: Groundnut, Cotton, Sesame, Wheat, Cumin, Chickpea, Onion, Garlic Enterprises: Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds | (1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3) <i>Phytophthora</i> disease in sesame (4) White grubs infestation in groundnut (5) Stem rot in groundnut (6) Wilt and blight in cumin (7) Nutritional deficiency in animal feed and fodder (8) Less area under horticultural crops | (1) IPM and INM in major crops of this area (2) Increase the drainage of soil (3) Efficient use of irrigation water (4) Judicious use pesticides |
| Wankaner | Palas Panchdwarka Shekhradi Amarsar Pipaliya raj | Crops: Groundnut, Cotton, Sesame, Wheat, Cumin, Chickpea, Onion, Garlic Enterprises: Vermi composting. Preparation of roasted groundnut and chikki from groundnut seeds | (1) Pink ball worm in cotton (2) Heavy infestation of sucking pests in cotton (3) <i>Phytophthora</i> disease in sesame (4) White grubs infestation in groundnut (5) Stem rot in groundnut (6) Wilt and blight in cumin (7) Nutritional deficiency in animal feed and fodder (8) Long inter calving period in buffalo (8) Less area under horticultural crops | (1) IPM and INM in major crops of this area (2) Reducing calving period in buffalo (3) Motivate to farmers for arid horticultural crops (4) Efficient use of irrigation water (5) Judicious use pesticides |

2.8. Priority thrust areas:

| Crop/Enterprise | Thrust area |
|-----------------------|---|
| Groundnut, Sesame etc | Increasing the productivity of the major crops by adopting recommendation of dry farming technologies and to create awareness for value addition. |
| Water conservation | <i>In situ</i> soil moisture conservation and rainwater harvesting. Use of cotton stalk for organic manure. |
| Cotton | Motivating cotton growers to adopt IPM and INM practices for reducing the cost of production. |

| | |
|------------------------------|--|
| Women empowerment | Providing self employment through skill oriented income generating activities |
| Agriculture | Developing interest among youth for agriculture as a profession. |
| Horticulture | Value addition in agriculture produces through proper grading, processing, marketing and information technology. |
| Income generating activities | Self employment among rural youth and skill oriented income generating activities. |
| Nutrition management | Care and importance of nutrition in children & pregnant women. |
| Spices crop | Adopt recommended practice of IDM in spices crop i.e. cumin & ajwain. |

3. TECHNICAL ACHIEVEMENTS

3.1. A. Details of target and achievements of mandatory activities

| OFT | | | | FLD | | | |
|----------------|-------------|-------------------|-------------|----------------|-------------|-------------------|-------------|
| 1 | | | | 2 | | | |
| Number of OFTs | | Number of farmers | | Number of FLDs | | Number of farmers | |
| Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| 3 | 3 | 9 | 9 | 7 | 7 | 65 | 65 |

| Training | | | | Extension Programmes | | | |
|-------------------|-------------|------------------------|-------------|----------------------|-------------|------------------------|-------------|
| 3 | | | | 4 | | | |
| Number of Courses | | Number of Participants | | Number of Programmes | | Number of participants | |
| Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| 43 | 49 | 1115 | 5729 | - | 198 | - | 9997 |

| Seed Production (Qtl.) | | Planting materials (Nos.) | |
|------------------------|-------------|---------------------------|-------------|
| 5 | | 6 | |
| Target | Achievement | Target | Achievement |
| 26.00 | 22.67 | 100 | 100 |

| Livestock, poultry strains and fingerlings (No.) | | Bio-products (Kg) | |
|--|-------------|-------------------|-------------|
| 7 | | 8 | |
| Target | Achievement | Target | Achievement |
| - | - | - | - |

3.1. B. Operational areas details during 2022

| S.No. | Major crops & enterprises being practiced in cluster villages | Prioritized problems in these crops/ enterprise | Extent of area (ha/No.) affected by the problem in the district | Names of Cluster Villages identified for intervention | Intervention (OFT, FLD, Training, extension activity etc.)* |
|-------|---|---|---|---|--|
| 1 | Bt. cotton | Sucking Pest, Para Wilt, Pink Boll Worm | 1,12,000 ha | Halvad, Tankara, Wakaner, Morbi block | FLD on pink boll worm management. |
| | | | | | Training on pink boll worm management |
| 2 | Groundnut | White Grub Stem Root | 42,000 ha | Tankara , Halvad block | OFT on White grub management in groundnut. |
| | | | | | Training on pest and Disease management in groundnut. |
| 3 | Cumin | Wilt and Blight | 3900 ha | Morbi, Halvad, Maliya | FLD and OFT on Wilt management and also training for IDM in Cumin. |
| 4 | Pomegranate | Seed rot and nematode | 1000 ha | Morbi, Halvad and Maliya | Training programmed and crop seminar |

3.2. Technology Assessment (Kharif 2022, Rabi 2021-22, Summer 2022)

A1. Abstract on the number of technologies assessed in respect of crops

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|-------------------------------|---------|----------|--------|------------------|------------|--------|--------|------------------|-------------|-------|
| Varietal Evaluation | - | 1 | - | - | - | - | - | - | - | 1 |
| Integrated Pest Management | - | 1 | - | - | - | - | - | - | - | 1 |
| Integrated Disease Management | - | - | - | 1 | - | - | - | - | - | 1 |
| Total | - | 2 | - | 1 | - | - | - | - | - | 3 |

A2. Abstract on the number of technologies assessed in respect of livestock enterprises : Nil

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

| Thematic areas | Crop | Name of the technology assessed | No. of trials | Number of farmers | Area in ha (Per trial covering all the Technological Options) |
|-------------------------------|-----------|--|---------------|-------------------|---|
| Varietal Evaluation | Sesame | Assessment of new variety of sesame | 3 | 9 | 1.20 |
| Integrated Pest Management | Groundnut | Management of White Grub in Groundnut crop | 3 | 9 | 1.20 |
| Integrated Disease Management | Cumin | Minimize the disease intensity through line sowing in cumin crop | 3 | 9 | 1.20 |
| Total | | | 9 | 24 | 3.60 |

B.2. Technologies assessed under Livestock & fishery assessment: Nil

B.3 Technologies assessed under other enterprises: Nil

B 4. Technologies assessed under Women empowerment assessment: Nil

C. 1. Results of Technologies Assessed

Results of On Farm Trial

| Crop/enterprise | Farming situation | Problem definition | Title of OFT | No. of trials | Technology Assessed | Parameters of assessment | Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement needed | Justification for refinement | | |
|-----------------|--------------------|--|--|---------------|--|-----------------------------------|------------------------------|--|---|-----------------------|------------------------------|----------------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| Groundnut | Limited irrigation | Heavy infestation of white grub in groundnut | Management of White Grub in Groundnut crop | 3 | management of white grub in Groundnut | Yield and percentage of dry plant | Dry plants (%) | 23.03 percentage higher yield received over farmer practice in T ₂ where as 32.89 percentage Higher in T ₃ over farmer practice. | Application of <i>Metarhiziumanisoplii</i> @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub. | Nil | Nil | | |
| | | | | | | | T ₁ | | | | | T ₂ | T ₃ |
| | | | | | | | 11.0 | | | | | 2.9 | 2.0 |
| Cumin | Irrigated | Heavy incidence of blight disease in cumin | Minimize the disease intensity through line sowing in cumin crop | 3 | Disease management through line sowing | Yield and score of blight disease | Blight score (1-9) | 6.26 percent higher yield obtain in T ₂ and 17.44 percent higher in T ₃ than farmer practice. | line sowing in cumin crop is very effective to control the blight disease | Nil | Nil | | |
| | | | | | | | T ₁ | | | | | T ₂ | T ₃ |
| | | | | | | | 3.00 | | | | | 1.33 | 1.67 |
| Sesame | Irrigated | Low yield of sesame in summer | Assessment of new variety of sesame | 3 | Assessment of new variety of sesame | Yield and No. of capsules | No. of capsules/plant | 27.32 percent higher yield obtain in T ₂ and 31.04 percent higher in T ₃ than farmer practice. | GT – 5 is bold and white seeded and higher yielder (summer). | Nil | Nil | | |
| | | | | | | | T ₁ | | | | | T ₂ | T ₃ |
| | | | | | | | 30.6 | | | | | 35.6 | 37.0 |

Contd..

| Technology Assessed | Source of Technology | Production | Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year) | Net Return (Profit) in Rs. / unit | B:C Ratio |
|--|----------------------------------|------------|---|-----------------------------------|-----------|
| 13 | 14 | 15 | 16 | 17 | 18 |
| OFT-1 | | | | | |
| Sowing of groundnut without Seed treatment. Farmers adopt drenching of Chlorpyrifos or quinalphos @ 6 lit/ha with irrigation at initiation of pest incidence. (Farmers practice) | - | 1520 | kg/ ha | 33340 | 1.53 |
| Seed treatment with imidacloprid 600 F.S. 4 ml/kg seed. (JAU Reco.2020) | Junagadh Agriculture University | 1870 | kg/ ha | 54860 | 1.85 |
| Soil application of <i>metarhizium anisoplii</i> @ 5 kg/ha with 300 kg/ha castor cake at the time of sowing. (JAU Reco.) | Junagadh Agricultural University | 2020 | kg/ ha | 65900 | 1.98 |
| OFT-2 | | | | | |
| Sowing of cumin with broad casting method (Farmer practice) | - | 671 | kg/ ha | 32875 | 1.64 |
| Sowing of cumin at 30cm distance between two rows (JAU Recommended practices.) | Junagadh Agriculture University | 713 | kg/ ha | 37625 | 1.73 |
| Sowing of cumin at 15 cm distance between two rows (Intervention). | - | 788 | kg/ ha | 45900 | 1.87 |
| OFT-3 | | | | | |
| G Til - 2 or Local (Farmer Practice). | | 538 | kg/ ha | 220 | 1.00 |
| G Til – 3 (JAU Recommendation for ummer) | Junagadh Agricultural University | 685 | kg/ ha | 13450 | 1.28 |
| G Til – 5 (JAU Recommendation for summer) | | 705 | kg/ ha | 15250 | 1.32 |

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

OFT-1

- | | | | |
|----|--|---|---|
| 1 | Title of Technology Assessed | : | Management of white grub in groundnut crop. |
| 2 | Problem Definition | : | Heavy infestation of white grub in ground nut. |
| 3 | Details of technologies selected for assessment | : | Soil application of <i>metarhizium anisoplii</i> @ 5 kg/ha with 300 kg/ha castor cake at the time of sowing.. |
| 4 | Source of technology | : | Junagadh Agricultural University |
| 5 | Production system and thematic area | : | Integrated pest management. |
| 6 | Performance of the Technology with performance Indicators | : | ----- |
| 7. | Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques | : | Matrix scoring is 8 out of 10 done by farmer. |
| 8 | Final recommendation for micro level situation | : | Sowing of groundnut with application of <i>Metarhiziumanisoplii</i> @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub . |
| 9 | Constraints identified and feedback for research | : | ----- |
| 10 | Process of farmer's participation and their reaction | : | Seed treatment is the best and cheapest method for management of white grub. |

OFT-2

- 1 Title of Technology Assessed : Minimize the disease intensity through line sowing in cumin crop
- 2 Problem Definition : Fifteen to twenty percent yield reduction due to blight disease
- 3 Details of technologies selected for assessment : Sowing of cumin at 15 cm distance between two rows
- 4 Source of technology : Junagadh Agricultural University, Junagadh
- 5 Production system and thematic area : Integrated disease management.
- 6 Performance of the Technology with performance Indicators : -----
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques : Disease Score
- 8 Final recommendation for micro level situation : line sowing in cumin crop is very effective to control the blight disease
- 9 Constraints identified and feedback for research : -----
- 10 Process of farmer's participation and their reaction : Seed treatment is the best and cheapest method for management of white grub.

OFT-3

- 1 Title of Technology Assessed : Assessment of new variety of sesame
- 2 Problem Definition : Low yield of sesame in summer.
- 3 Details of technologies selected for assessment : New variety of sesame (GT-5)
- 4 Source of technology : Junagadh Agricultural University, Junagadh
- 5 Production system and thematic area : Varietal Evaluation
- 6 Performance of the Technology with performance Indicators : -----
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques : 7 out of 10 scoring
- 8 Final recommendation for micro level situation : GT – 5 is bold and white seeded and higher yielder (summer).
- 9 Constraints identified and feedback for research : Nil
- 10 Process of farmer's participation and their reaction : GT – 5 is bold and white seeded and higher yielder (summer).

3.3. FRONTLINE DEMONSTRATIONS

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

List of technologies demonstrated during previous year and popularized during 2022 and recommended for large scale adoption in the district

| S. No | Crop/ Enterprise | Thematic Area* | Technology demonstrated | Details of popularization methods suggested to the Extension system | Horizontal spread of technology | | |
|-------|------------------|----------------|---|--|---------------------------------|----------------|------------|
| | | | | | No. of villages | No. of farmers | Area in ha |
| 1 | Groundnut | INM | Seed treatment of <i>Rhizobium</i> Leguminosarum Isolated-1 a 10 ml/kg seed | Integrated nutrient management through use of <i>Rhizobium</i> Leguminosarum | 10 | 20 | 8.0 |
| 2 | Cotton | IPM | Management of pink ball worm through MDP | Management of pink ball worm through MDP | 5 | 10 | 4.0 |
| 3 | Cumin | New variety | New variety of cumin GC - 5 | To test yield potentiality of newly released cumin variety | 5 | 10 | 2.0 |
| 4 | Pearl millet | New hybrid | New hybrid of Pearl millet GHB-538 | To test yield potentiality of newly released pearl millet hybrid | 5 | 5 | 2.0 |
| 5 | Chickpea | New variety | New variety of chickpea GG - 5 | To test yield potentiality of newly released chickpea variety | 5 | 10 | 4.0 |
| 6 | Pearl Millet | New hybrid | New Bio fortified hybrid of Pearl millet GHB-1129 | To test yield potentiality of newly released pearl millet Bio fortified hybrid | 8 | 15 | 6.0 |

B. Details of FLDs implemented during 2022 (Kharif 2022, Rabi 2022-23, Summer 2022) (Information is to be furnished in the following **three tables** for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

| S. No. | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ demonstration | | | Reasons for shortfall in achievement |
|--------|--------------|---------------|---|---------------------|-----------|--------|-------------------------------|--------|-------|---|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Groundnut | INM | Seed treatment of <i>Rhizobium Leguminosarum</i> Isolated-1 a 10 ml/kg seed | <i>Kharif 2022</i> | 8.0 | 8.0 | 2 | 18 | 20 | - |
| 2 | Cotton | IPM | Management of pink ball worm through MDP | <i>Kharif 2022</i> | 4.0 | 4.0 | 1 | 9 | 10 | - |
| 3 | Cumin | New variety | New variety of cumin GC - 5 | <i>Rabi 2021-22</i> | 4.0 | 4.0 | 2 | 8 | 10 | - |
| 4 | Pearl millet | New hybrid | New Bio fortified hybrid of Pearl millet | <i>Summer 2022</i> | 2.0 | 2.0 | - | 5 | 5 | - |
| 5 | Chickpea | New variety | Popularized new variety GG-5 | <i>Rabi 2021-22</i> | 4.0 | 4.0 | 1 | 9 | 10 | - |
| 6 | Pear millet | New hybrid | New Bio fortified hybrid of Pearl millet | <i>Kharif 2022</i> | 6.0 | 6.0 | 3 | 12 | 15 | Crop was failed due to continuous rain fall and water logged condition for long period. |

Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|--------------|---------------|----------------------------------|--------------|----------------|-----|------|---------------------------------|---|---|------------------------|-------------------|
| | | | | N | P | K | | | | | |
| Groundnut | <i>Kharif</i> | RF | Medium Black | Low | Low | High | Cotton | 25 th to 31 st May | 1 st to 5 th Oct. | 799.3 | - |
| Cotton | <i>Kharif</i> | RF | Medium Black | Low | Low | High | Cotton | 25 th to 31 st May | 15 th to 30 th Dec. | 799.3 | - |
| Cumin | <i>Rabi</i> | Irrigated | Medium Black | Low | Low | High | Groundnut | 8 th to 13 th Nov. | 23 rd Feb | - | - |
| Pearl millet | <i>Summer</i> | Irrigated | Medium Black | Low | Low | High | Cotton | 20 th to 28 th Feb. | 25 th May | - | - |
| Chickpea | <i>Rabi</i> | Irrigated | Medium Black | Low | Low | High | Groundnut / Sesame early cotton | 2 nd to 10 th Dec. | 16 th to 23 rd Mar | - | - |
| Pearl millet | <i>Kharif</i> | RF | Medium Black | Low | Low | High | Cotton | 20 th to 25 th June | 12 th to 15 th Oct. | 799.3 | - |

Technical Feedback on the demonstrated technologies

| S. No | Feed Back |
|-------|--|
| 1 | Variety GJG-32 is resistant against tikka and rust disease in heavy rainfall condition as compared to TG-45 ,GJG-22 ,TAG-24. |
| 2 | Application of <i>Metarhiziumanisoplii</i> @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub . |
| 3 | Line sowing in cumin crop is very effective to control blight disease |
| 4 | Pheromone trap is very useful for mass trapping of pink boll worm moth in cotton crop. |
| 5 | Chickpea variety GG-5 is high yielding as well as disease resistant compared to GG-2, GJG-3. |
| 6 | Sesamum GT-5 is bold and white seeded and higher yielder (summer). |

Farmers' reactions on specific technologies

| S. No | Feed Back |
|-------|--|
| 1 | Research needs for control of insect-pest and disease in organic farming. |
| 2 | Salinity problem in Maliya, Halvad and part of Morbi taluka. |
| 3 | Seed rot problem in pomegranate fruit. |
| 4 | Nematode problem in pomegranate crop. |
| 5 | Variety GJG-32 is resistant against tikka and rust disease in heavy rainfall condition as compared to TG-45 ,GJG-22 ,TAG-24. |
| 6 | Wilt in cumin Crop.(GC-4) |
| 7 | Chickpea variety GG-5 is resistant to wilt & blight and change of adverse condition (Chilling effect) as compared to GG-2 and GJG-3. |
| 8 | For better germination soaking of cumin GC-4 seed in water for 2 to 4 hrs. Then dry in shade. |
| 9 | Pod borer problem in groundnut. |
| 10 | Ketosis, Mastitis, FMD, Brucellosis problems in cow and buffalo |
| 11 | Soft rot disease on onion. |

Extension and Training activities under FLD

| Sl.No. | Activity | No. of activities organized | Date | Number of participants | Remarks |
|--------|--------------------------------------|-----------------------------|------------------------------|------------------------|---------|
| 1 | Field days | 3 | January, February and August | 117 | - |
| 2 | Farmers Training | 3 | January to December | 150 | - |
| 3 | Media coverage | 4 | January to December | - | - |
| 4 | Training for extension functionaries | 3 | March, June and November | 109 | - |

C. Performance of frontline demonstrations

Frontline demonstrations on oilseed crops

| Crop | Thematic Area | technology demonstrated | Variety | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Increase in yield | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|-----------|---------------|--|----------------------|----------------|-----------|--------------|-------|---------|-------|---------------------|-------------------------------------|--------------|------------|-----------|-----------------------------|--------------|------------|-----------|
| | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| | | | | | | High | Low | Average | | | | | | | | | | |
| Groundnut | INM | Seed treatment of <i>Rhizobium Leguminosarum</i> Isolated-1a 10 ml/kg seed | GG-20, GG-22, GJG-32 | 20 | 8.0 | 19.97 | 15.86 | 17.72 | 16.70 | 6.11 | 63300 | 111229 | 47929 | 1.76 | 62800 | 104827 | 42027 | 1.67 |

Frontline demonstration on pulse crops

| Crop | Thematic Area | technology demonstrated | Variety | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Increase in yield | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|----------|---------------|-------------------------------|---------|----------------|-----------|--------------|-------|---------|-------|---------------------|-------------------------------------|--------------|------------|-----------|-----------------------------|--------------|------------|-----------|
| | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| | | | | | | High | Low | Average | | | | | | | | | | |
| Chickpea | New Variety | Popularization of new variety | GG-5 | 10 | 4.0 | 21.75 | 14.70 | 19.51 | 18.46 | 5.69 | 40400 | 99501 | 59101 | 2.46 | 40400 | 94146 | 53746 | 2.33 |

Frontline demonstration on other crops

| Category & Crop | Thematic Area | Name of the technology | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Change in Yield | Other Parameters | | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | |
|--------------------------------|---------------|--|----------------|-----------|--------------|-------|---------|-------|-------------------|------------------|-------|-------------------------------------|--------------|------------|-----------|-----------------------------|--------------|------------|-----------|
| | | | | | Demo | | | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| | | | | | High | Low | Average | | | | | | | | | | | | |
| Spices & condiments | | | | | | | | | | | | | | | | | | | |
| Cumin | | | | | | | | | | | | | | | | | | | |
| Cumin | New Variety | Popularization of new variety GC-5 | 5 | 2.0 | 11.25 | 2.90 | 5.12 | 5.11 | 0.20 | - | - | 40900 | 97280 | 56380 | 2.38 | 40900 | 96900 | 56000 | 2.38 |
| Commercial Crops | | | | | | | | | | | | | | | | | | | |
| Cotton | | | | | | | | | | | | | | | | | | | |
| Cotton | IPM | Pink boll worm management through MDP pest | 10 | 4.0 | 28.70 | 14.50 | 21.76 | 20.90 | 4.11 | 1.16 | 1.90 | 59670 | 174080 | 110610 | 2.92 | 58470 | 167200 | 108730 | 2.86 |

Frontline demonstration on nutri cereals

| Crop | Thematic Area | Technology demonstrated | Variety | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Increase in yield | Economics of demonstration (Rs./ha) | | | | Economics of check (Rs./ha) | | | | |
|--------------|---------------|---|----------|----------------|-----------|---|------|---------|-------|---------------------|-------------------------------------|--------------|------------|-----------|-----------------------------|--------------|------------|-----------|--|
| | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) | |
| | | | | | | High | Low | Average | | | | | | | | | | | |
| Pearl-millet | | | | | | | | | | | | | | | | | | | |
| Pearlmillet | New Hybrid | Popularization of good quality chapati hybrid | GHB-538 | 5 | 2.0 | 36.7 | 33.4 | 34.8 | 34.8 | 1.57 | 47000 | 69240 | 22240 | 1.47 | 47000 | 59850 | 12850 | 1.27 | |
| Pearlmillet | New Hybrid | Popularization of biofortified hybrid | GHB-1129 | 15 | 6.0 | Crop was failed due to continuous rain fall and water logged condition for long period. | | | | | | | | | | | | | |

3.4. Training Programmes (Online programmes if any should be included under On Campus category)

Farmers' Training including sponsored training programmes (on campus)

| Thematic area | No. of courses | Participants | | | | | | | | |
|--|----------------|--------------|------------|------------|-----------|----------|-----------|-------------|------------|------------|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| I Crop Production | | | | | | | | | | |
| Cropping Systems | 1 | 133 | 0 | 133 | 7 | 0 | 7 | 140 | 0 | 140 |
| Integrated Farming | 1 | 41 | 0 | 41 | 5 | 0 | 5 | 46 | 0 | 46 |
| Integrated Crop Management | 1 | 80 | 0 | 80 | 5 | 0 | 5 | 85 | 0 | 85 |
| Integrated nutrient management | 1 | 72 | 0 | 72 | 3 | 0 | 3 | 75 | 0 | 75 |
| Total | 4 | 326 | 0 | 326 | 20 | 0 | 20 | 346 | 0 | 346 |
| II Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Nursery Management | 1 | 90 | 3 | 93 | 10 | 0 | 10 | 100 | 3 | 103 |
| Value addition in vegetables | 1 | 25 | 8 | 33 | 7 | 0 | 7 | 32 | 8 | 40 |
| Seed production | 1 | 76 | 0 | 76 | 0 | 0 | 0 | 76 | 0 | 76 |
| Total (a) | 3 | 191 | 11 | 202 | 17 | 0 | 17 | 208 | 11 | 219 |
| b) Fruits | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (b) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c) Ornamental Plants | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (c) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d) Plantation crops | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (d) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| e) Tuber crops | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (e) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| f) Spices | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (f) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (g) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total (a to g) | 3 | 191 | 11 | 202 | 17 | 0 | 17 | 208 | 11 | 219 |
| III Soil Health and Fertility Management | | | | | | | | | | |
| Soil and Water Testing | 1 | 25 | 0 | 25 | 5 | 0 | 5 | 30 | 0 | 30 |
| Total | 1 | 25 | 0 | 25 | 5 | 0 | 5 | 30 | 0 | 30 |
| IV Livestock Production and Management | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 1 | 0 | 22 | 22 | 0 | 0 | 0 | 0 | 22 | 22 |
| Processing and cooking | 1 | 0 | 68 | 68 | 0 | 0 | 0 | 0 | 68 | 68 |
| Total | 2 | 0 | 90 | 90 | 0 | 0 | 0 | 0 | 90 | 90 |
| VI Agril. Engineering | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VII Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 3 | 67 | 12 | 79 | 3 | 0 | 3 | 70 | 12 | 82 |
| Integrated Disease Management | 1 | 38 | 0 | 38 | 0 | 0 | 0 | 38 | 0 | 38 |
| Bio-control of pests and diseases | 1 | 24 | 0 | 24 | 0 | 0 | 0 | 24 | 0 | 24 |
| Others (pl specify) Judicious use of pesticides | 1 | 65 | 0 | 65 | 3 | 0 | 3 | 68 | 0 | 68 |
| Total | 6 | 194 | 12 | 206 | 6 | 0 | 6 | 200 | 12 | 212 |
| VIII Fisheries | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IX Production of Inputs at site | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| X CapacityBuilding and Group Dynamics | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| XI Agro-forestry | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | 16 | 736 | 113 | 849 | 48 | 0 | 48 | 784 | 113 | 897 |

Farmers' Training including sponsored training programmes (off campus)

| Thematic area | No. of courses | Participants | | | | | | | | |
|--|----------------|--------------|------------|------------|-----------|----------|-----------|-------------|------------|------------|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| I Crop Production | | | | | | | | | | |
| Cropping Systems | 1 | 27 | 0 | 27 | 1 | 0 | 1 | 28 | 0 | 28 |
| Integrated Farming Systems | 1 | 88 | 0 | 88 | 14 | 0 | 14 | 102 | 0 | 102 |
| Integrated nutrient management | 1 | 62 | 0 | 62 | 4 | 0 | 4 | 66 | 0 | 66 |
| Total | 3 | 177 | 0 | 177 | 19 | 0 | 19 | 196 | 0 | 196 |
| II Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Nursery Management | 1 | 54 | 0 | 54 | 2 | 0 | 2 | 56 | 0 | 56 |
| Total (a) | 1 | 54 | 0 | 54 | 2 | 0 | 2 | 56 | 0 | 56 |
| b) Fruits | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (b) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c) Ornamental Plants | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (c) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d) Plantation crops | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (d) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| e) Tuber crops | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (e) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| f) Spices | | | | | | | | | | |
| Production and Management technology | 1 | 19 | 0 | 19 | 3 | 0 | 3 | 22 | 0 | 22 |
| Total (f) | 1 | 19 | 0 | 19 | 3 | 0 | 3 | 22 | 0 | 22 |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (g) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total (a to g) | 2 | 73 | 0 | 73 | 5 | 0 | 5 | 78 | 0 | 78 |
| III Soil Health and Fertility Management | | | | | | | | | | |
| Production and use of organic inputs | 1 | 29 | 0 | 29 | 0 | 0 | 0 | 29 | 0 | 29 |
| Soil and Water Testing | 1 | 19 | 0 | 19 | 0 | 0 | 0 | 19 | 0 | 19 |
| Total | 2 | 48 | 0 | 48 | 0 | 0 | 0 | 48 | 0 | 48 |
| IV Livestock Production and Management | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 1 | 20 | 53 | 73 | 0 | 0 | 0 | 20 | 53 | 73 |
| Design and development of low/minimum cost diet | 1 | 0 | 38 | 38 | 0 | 2 | 2 | 0 | 40 | 40 |
| Processing and value addition | 1 | 0 | 32 | 32 | 0 | 1 | 1 | 0 | 33 | 33 |
| Women empowerment | 1 | 0 | 32 | 32 | 0 | 3 | 3 | 0 | 35 | 35 |
| Total | 4 | 20 | 155 | 175 | 0 | 6 | 6 | 20 | 161 | 181 |
| VI Agril. Engineering | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VII Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 4 | 159 | 0 | 159 | 4 | 0 | 4 | 163 | 0 | 163 |
| Integrated Disease Management | 2 | 93 | 0 | 93 | 10 | 0 | 10 | 103 | 0 | 103 |
| Bio-control of pests and diseases | 2 | 50 | 0 | 50 | 16 | 0 | 16 | 66 | 0 | 66 |
| Others (pl specify) Judicious use of pesticides | 1 | 30 | 0 | 30 | 2 | 0 | 2 | 32 | 0 | 32 |
| Total | 9 | 332 | 0 | 332 | 32 | 0 | 32 | 364 | 0 | 364 |
| VIII Fisheries | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IX Production of Inputs at site | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| X Capacity Building and Group Dynamics | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| XI Agro-forestry | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | 20 | 650 | 155 | 805 | 62 | 0 | 62 | 712 | 155 | 867 |

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

| Thematic area | No. of courses | Participants | | | | | | | | |
|--|----------------|--------------|------------|-------------|------------|-----------|------------|-------------|------------|-------------|
| | | Others | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| I Crop Production | | | | | | | | | | |
| Cropping Systems | 2 | 160 | 0 | 160 | 8 | 0 | 8 | 168 | 0 | 168 |
| Integrated Farming | 2 | 129 | 0 | 129 | 19 | 0 | 19 | 148 | 0 | 148 |
| Integrated Crop Management | 1 | 80 | 0 | 80 | 5 | 0 | 5 | 85 | 0 | 85 |
| Integrated nutrient management | 2 | 134 | 0 | 134 | 7 | 0 | 7 | 141 | 0 | 141 |
| Total | 7 | 503 | 0 | 503 | 39 | 0 | 39 | 542 | 0 | 542 |
| II Horticulture | | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | | |
| Nursery raising | 2 | 130 | 0 | 130 | 2 | 0 | 2 | 132 | 0 | 132 |
| Value addition in vegetables | 1 | 25 | 8 | 33 | 7 | 0 | 7 | 32 | 8 | 40 |
| Others: Seed production technology in vegetables | 1 | 90 | 3 | 93 | 10 | 0 | 10 | 100 | 3 | 103 |
| Total (a) | 245 | 11 | 256 | 19 | 0 | 19 | 264 | 11 | 275 | 245 |
| b) Fruits | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (b) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| c) Ornamental Plants | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (c) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| d) Plantation crops | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (d) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| e) Tuber crops | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (e) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| f) Spices | | | | | | | | | | |
| Production and Management technology | 1 | 19 | 0 | 19 | 3 | 0 | 3 | 22 | 0 | 22 |
| Total (f) | 1 | 19 | 0 | 19 | 3 | 0 | 3 | 22 | 0 | 22 |
| g) Medicinal and Aromatic Plants | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (g) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total (a to g) | 5 | 264 | 11 | 275 | 22 | 0 | 22 | 286 | 11 | 297 |
| III Soil Health and Fertility Management | | | | | | | | | | |
| Production and use of organic inputs | 1 | 29 | 0 | 29 | 0 | 0 | 0 | 29 | 0 | 29 |
| Soil and Water Testing | 2 | 44 | 0 | 44 | 5 | 0 | 5 | 49 | 0 | 49 |
| Total | 3 | 73 | 0 | 73 | 5 | 0 | 5 | 78 | 0 | 78 |
| IV Livestock Production and Management | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| V Home Science/Women empowerment | | | | | | | | | | |
| Household food security by kitchen gardening | 2 | 20 | 75 | 95 | 0 | 0 | 0 | 20 | 75 | 95 |
| Design & development of low/minimum cost diet | 1 | 0 | 38 | 38 | 0 | 2 | 2 | 0 | 40 | 40 |
| Processing and cooking | 1 | 0 | 68 | 68 | 0 | 0 | 0 | 0 | 68 | 68 |
| Value addition | 1 | 0 | 32 | 32 | 0 | 1 | 1 | 0 | 33 | 33 |
| Women empowerment | 1 | 0 | 32 | 32 | 0 | 3 | 3 | 0 | 35 | 35 |
| Total | 6 | 20 | 245 | 265 | 0 | 6 | 6 | 20 | 251 | 271 |
| VI Agril. Engineering | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| VII Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 7 | 226 | 12 | 238 | 7 | 0 | 7 | 233 | 12 | 245 |
| Integrated Disease Management | 3 | 131 | 0 | 131 | 10 | 0 | 10 | 141 | 0 | 141 |
| Bio-control of pests and diseases | 3 | 74 | 0 | 74 | 16 | 0 | 16 | 90 | 0 | 90 |
| Others (pl specify) Judicious use of pesticides | 2 | 95 | 0 | 95 | 5 | 0 | 5 | 100 | 0 | 100 |
| Total | 15 | 526 | 12 | 538 | 38 | 0 | 38 | 564 | 12 | 576 |
| VIII Fisheries | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| IX Production of Inputs at site | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| X CapacityBuilding and Group Dynamics | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| XI Agro-forestry | | | | | | | | | | |
| Others (pl specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | 36 | 1386 | 268 | 1654 | 110 | 0 | 110 | 1496 | 268 | 1764 |

Training for Rural Youths including sponsored training programmes (On campus) :Nil

Training for Rural Youths including sponsored training programmes (Off campus) : Nil

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus): Nil

Training programmes for Extension Personnel including sponsored training (on campus)

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|--|----------------|---------------------|----------|-----------|----------|----------|----------|-------------|----------|-----------|
| | | General/ Others | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Integrated Pest Management | 1 | 35 | 0 | 35 | 0 | 0 | 0 | 35 | 0 | 35 |
| Any other (pl.specify) Natural farming | 1 | 19 | 2 | 21 | 2 | 0 | 2 | 21 | 2 | 23 |
| TOTAL | 2 | 54 | 2 | 56 | 2 | 0 | 2 | 56 | 2 | 58 |

Training programmes for Extension Personnel including sponsored training (off campus)

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|--|----------------|---------------------|----------|-----------|----------|----------|----------|-------------|----------|-----------|
| | | General/ Others | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Any other (pl.specify) Natural farming | 1 | 46 | 0 | 46 | 5 | 0 | 5 | 51 | 0 | 51 |
| TOTAL | 1 | 46 | 0 | 46 | 5 | 0 | 5 | 51 | 0 | 51 |

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|--|----------------|---------------------|----------|------------|----------|----------|----------|-------------|----------|------------|
| | | General/ Others | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Integrated Pest Management | 1 | 35 | 0 | 35 | 0 | 0 | 0 | 35 | 0 | 35 |
| Any other (pl.specify) Natural farming | 2 | 65 | 2 | 67 | 7 | 0 | 7 | 72 | 2 | 74 |
| TOTAL | 3 | 100 | 2 | 102 | 7 | 0 | 7 | 107 | 2 | 109 |

Sponsored training programmes

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|----------------|---------------------|------------|-------------|------------|----------|------------|-------------|------------|-------------|
| | | General/ Others | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Crop production and management | | | | | | | | | | |
| Integrated crop management | 5 | 2597 | 202 | 2799 | 76 | 0 | 76 | 2673 | 202 | 2875 |
| Production and value addition | | | | | | | | | | |
| Spices crops | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soil health and fertility management | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Production of Inputs at site | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Methods of protective cultivation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other - Plant protection (IDM) | 2 | 325 | 110 | 435 | 15 | 0 | 15 | 340 | 110 | 450 |
| Other - Plant protection (IPM) | 2 | 359 | 112 | 471 | 20 | 0 | 20 | 379 | 112 | 491 |
| Total | 4 | 684 | 222 | 906 | 35 | 0 | 35 | 719 | 222 | 941 |
| Post harvest technology and value addition | | | | | | | | | | |
| Processing and value addition | 1 | 25 | 8 | 33 | 5 | 2 | 7 | 30 | 10 | 40 |
| Total | 1 | 25 | 8 | 33 | 5 | 2 | 7 | 30 | 10 | 40 |
| Farm machinery | | | | | | | | | | |
| Others (pl. specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Livestock and fisheries | | | | | | | | | | |
| Others (pl. specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Home Science | | | | | | | | | | |
| Others (pl. specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Extension | | | | | | | | | | |
| Others (pl. specify) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | 10 | 3306 | 432 | 3738 | 116 | 2 | 118 | 3422 | 434 | 3856 |

Details of vocational training programmes carried out by KVKs for rural youth (4 or more days): Nil

3.5. Extension Programmes

| Activities | No. of programmes | No. of farmers | No. of Extension Personnel | TOTAL |
|---|-------------------|----------------|----------------------------|-------------|
| Advisory Services (Other than KMAS) | 72 | 1136 | 0 | 1136 |
| Diagnostic visits | 6 | 20 | 2 | 22 |
| Field Day | 2 | 48 | 2 | 50 |
| Group discussions | 0 | 0 | 0 | 0 |
| Kisan Ghosthi | 9 | 561 | 3 | 564 |
| Film Show | 0 | 0 | 0 | 0 |
| Self -help groups | 0 | 0 | 0 | 0 |
| Kisan Mela | 3 | 524 | 4 | 528 |
| Exhibition | 0 | 0 | 0 | 0 |
| Scientists' visit to farmers field | 15 | 84 | 15 | 99 |
| Plant/animal health camps | 0 | 0 | 0 | 0 |
| Farm Science Club | 0 | 0 | 0 | 0 |
| Ex-trainees Sammelan | 0 | 0 | 0 | 0 |
| Farmers' seminar/workshop | 2 | 2647 | 6 | 2653 |
| Method Demonstrations | 0 | 0 | 0 | 0 |
| Celebration of important days | 8 | 566 | 5 | 571 |
| Special day celebration | 7 | 244 | 8 | 252 |
| Exposure visits | 2 | 138 | 0 | 138 |
| Farmers visit to KVK | 16 | 396 | 0 | 393 |
| Soil and water sample tested | 15+17 | 32 | 0 | 32 |
| Live broadcast of PM Kisan Sanman Nidhi | 3 | 541 | 6 | 547 |
| Audio conference | 3 | 255 | 0 | 255 |
| Agro input dealers' training | 8 | 322 | 0 | 322 |
| Farmers guide through phone | 12 | 1611 | 0 | 1611 |
| Jalshakti abhiyan | 5 | 348 | 0 | 348 |
| Swachchhata abhiyan | 10 | 473 | 0 | 473 |
| Total | 198 | 9946 | 51 | 9997 |

Note- Advisory services includes social media, website, telephonic calls etc.

Details of other extension programmes:

| Particulars | Number |
|---|------------|
| Electronic Media (CD./DVD) | - |
| Extension Literature | 4 |
| Newspaper coverage | 8 |
| Popular articles | 1 |
| Radio Talks | - |
| TV Talks | 2 |
| Animal health camps (Number of animals treated) | - |
| Social Media (No. of platforms Used) | 3 |
| Others (pl. specify) (Distribution of extension literature) | 450 |
| Total | 468 |

3.6 Online activities during year 2022

| S. No. | Activity Type | Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc.) | Title of Program | No. of Programmes | No. of Participants/ Views |
|--------|---|--|--|-------------------|----------------------------|
| A | Farmers training | | | | |
| 1 | Farmers training | Audio Conferencing | IPM in groundnut and rabi crops Varieties of vegetables | 3 | 255 |
| | Total | | | 3 | 255 |
| B | Farmers scientist's interaction programme | | | | |
| 1 | Video conferencing | Video conferencing | Plant protection | 1 | 10 |
| | Total | | | 1 | 10 |
| C | Farmers seminars | | | | |
| 1 | Seminar | Video conferencing | IPM and IDM in rabi crops | 1 | 2500 |
| | Total | | | 1 | 2500 |
| | Grand Total (A+B+C+D+E) | | | 5 | 2765 |

3.7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

| Crop | Name of the crop | Name of the variety | Name of the hybrid | Quantity of seed (q) | Value (Rs) | Number of farmers |
|--------------|----------------------|---------------------|--------------------|----------------------|---------------|-------------------|
| Oilseeds | Sesame (Breeder) | GT – 6 | - | 2.62 | 31309 | - |
| | Sesame (Labeled) | GT – 6 | - | 0.43 | 4397 | 35 |
| | Groundnut (Labeled) | GJG-32 | - | 5.73 | 35641 | 3 |
| Pulses | Black Gram (Labeled) | GU – 2 | - | 8.55 | 50744 | 43 |
| | Chickpea (Labeled) | GG-5 | - | 1.44 | 37530 | 5 |
| Vegetables | Onion (Breeder) | GJWO-3 | - | 0.0525 | 17325 | - |
| | Onion (General) | GJWO-3 | - | 0.46 | 69000 | 12 |
| Spices | Cumin (Labeled) | GC – 4 | - | 1.87 | 120416 | 92 |
| Total | | | | 66.6925 | 366362 | 190 |

Production of planting materials by the KVK

| Crop | Name of the crop | Name of the variety | Name of the hybrid | Number | Value (Rs.) | Number of farmers |
|----------------|------------------|---------------------|--------------------|-----------|-------------|-------------------|
| Forest Species | Drumstick | - | - | 25 | - | 25 |
| Fruits | Jamun | - | - | 25 | - | 25 |
| Total | | | | 50 | - | 50 |

Production of Bio-Products: Nil

Production of livestock materials: Nil

4. Literature Developed/Published (with full title, author & reference)

A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): 4 (JAU news letter)

B. Literature developed/published

| Item | Title | Authors name | Number |
|-------------------------------|--|---|------------------------------|
| Research papers | NA | - | - |
| Technical reports | SAC, Annual, ZEARC, AGRESSCO | - | 5 |
| News letters | JAU, news letters | - | 4 |
| Technical bulletins | - | - | - |
| Popular articles | Sangrahal Anajni Jivato ane Tenu Niyrantran | D.A. Saradva, V.D. Vora, M.S. Ghadia and D.S. Hirpara | Krusha Prbhat, 30 April 2022 |
| Extension literature | <i>Prakrutik Krushini Vyakhya ane Sidhanto</i> | Dr. L.L. Jivani, | 1000 |
| | <i>Prakrutik Krushima Khatar banavvani Rit</i> | Mr. D.A. Saradva, | 1000 |
| | <i>Prakrutik Krushima Pak sanrakshanna Upayo</i> | Dr. K.N. Vadaria, Mr. G.S. Zala, Mr. V.V. Thakor | 1000 |
| Others (Pl. specify) Calendar | Natural Farming Calendar of year 2023 | | 500 |
| TOTAL | 7 | - | 3509 |

C. Details of Electronic Media Produced

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

D. Details of Social Media Platforms Created / Used

| S. No. | Type of social media platform | No of events (uploaded video/post/story etc. | Title of social media | Number of Followers/ Subscribers |
|--------|--|--|-----------------------|----------------------------------|
| 1 | YouTube Channel (no of video uploaded) | - | - | - |
| 2 | Facebook page/ Account (no of Post) | - | - | - |
| 3 | Mobile Apps | - | - | - |
| 4 | Whats App groups | 20 | - | 1250 |
| 5 | Twitter Account @Kvkmorbi | - | - | 10 |
| 6 | Any other (Pl. Specify) | - | - | - |

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

- IPM in Cotton-Use of Trap crop, Pheromone trap, MDP etc.
- Minimizing the chemical Fertilizer and Maximizing organic manure.
- Value addition in different agriculture crops like groundnut, sesame etc.

F. 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 |
|--------|-------------------|---------------|----------------|
| - | - | - | - |

5.1. Indicate the specific training need analysis tools/methodology followed for

A. Practicing Farmers: Nil

B. Rural Youth: Nil

C. In-service personnel: Nil

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

- i) Field level observations
- ii) Farmer group discussions

For FLD:

- i) New variety/technology
- ii) Existing cropping system
- iii) Problem at field level

5.3. Field activities

Name of villages identified/adopted with block name (from which year) -

| Block | Villages |
|----------|--|
| Morbi | Chakampar, Jivapar, Dharampur Thorala, Andarana |
| Tankara | Otala, Saraya, Neknam, Lakhdhargadh, Bhutkotda |
| Wankaner | Palas, Panchdwarka, Shekhradi, Amarsar, Pipaliya raj |

6. LINKAGES

A. Functional linkage with different organizations

| Name of organization | Nature of linkage |
|--|---|
| Dy. Director of Agriculture. | Most of the Organizations are members of Scientific Advisory Committee (SAC) of KVK and have linkage with different activities of KVK viz., Training Programme, Khedut Sibir, Farmers day, Animal health Camp, Farmers fair, Film Show, Ex-training meeting and Soil health card etc. |
| Dy. Director of Agril. Extension (FTC) | |
| Dy. Director of Horticulture | |
| Dy. Director of Animal Husbandry | |
| District Agriculture officer | |
| JillaUdhyong Kendra | |
| NHRDF | |
| Doordarshan Kendra | |
| All India Radio | |
| District Rural Development Agency(DRDA) | |
| ATMA | |
| District Watershed Development Agency (DWDA) | |
| GGRC | |
| Reliance foundation | |
| GSFC, GNFC | |
| IFFCCO | |
| KRIBHCO | |
| ANANDI NGO | |

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

B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

| Name of the scheme | Date/ Month of initiation | Funding agency(State Govt./Other Agencies) | Amount (Rs.) |
|--------------------|---------------------------|--|--------------|
| - | - | - | - |

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

If yes, role of KVK in preparation of SREP of the district?

Yes, we have prepared the SREP of Morbi district.

6. LINKAGES

A. Functional linkage with different organizations

| Name of organization | Nature of linkage |
|--|---|
| Dy. Director of Agriculture. | Most of the Organizations are members of Scientific Advisory Committee (SAC) of KVK and have linkage with different activities of KVK viz., Training Programme, Khedut Sibir, Farmers day, Animal health Camp, Farmers fair, Film Show, Ex-training meeting and Soil health card etc. |
| Dy. Director of Agril. Extension (FTC) | |
| Dy. Director of Horticulture | |
| Dy. Director of Animal Husbandry | |
| District Agriculture officer | |
| JillaUdhyong Kendra | |
| NHRDF | |
| Doordarshan Kendra | |
| All India Radio | |
| District Rural Development Agency(DRDA) | |
| ATMA | |
| District Watershed Development Agency (DWDA) | |
| GGRC | |
| Reliance foundation | |
| GSFC, GNFC | |
| IFFCCO | |
| KRIBHCO | |
| ANANDI NGO | |

Coordination activities between KVK and ATMA

| S. No. | Programme | Particulars | No. of programmes attended by KVK staff | No. of programmes Organized by KVK | No of Farmers attending |
|--------|-------------------------------|-------------|---|------------------------------------|-------------------------|
| 01 | Meetings | 2 | 2 | 1 | 52 |
| 02 | Research projects | - | - | - | - |
| 03 | Training programmes | 2 | 2 | 1 | 2647 |
| 04 | Demonstrations | - | - | - | - |
| 05 | Extension Programmes | | | | |
| | KisanMela | - | - | - | - |
| | Technology Week | 1 | 1 | 1 | 126 |
| | Exposure visit | 1 | 1 | 1 | 48 |
| | Exhibition | - | - | - | - |
| | Soil health camps | - | - | - | - |
| | Animal Health Campaigns | - | - | - | - |
| | Others (Pl. specify) | - | - | - | - |
| 06 | Publications | - | - | - | - |
| | Video Films | | | | |
| | Books | - | - | - | - |
| | Book chapter | - | - | - | - |
| | | - | - | - | - |
| | Extension Literature | - | - | - | - |
| | Pamphlets | - | - | - | - |
| | Others (Pl. specify) | | | | |
| 07 | Other Activities (Pl.specify) | - | - | - | - |
| | Watershed approach | - | - | - | - |
| | Integrated Farm Development | - | - | - | - |

| | | | | | |
|--|---------------------------|---|---|---|---|
| | Agri-preneurs development | - | - | - | - |
|--|---------------------------|---|---|---|---|

D. Give details of programmes implemented under National Horticultural Mission

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Constraints if any |
|--------|-----------|-------------------|---------------------------|--|--------------------|
| Nil | | | | | |

E. Nature of linkage with National Fisheries Development Board

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|--------|-----------|-------------------|---------------------------|--|---------|
| Nil | | | | | |

F. Details of linkage with RKVY

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|--------|-----------|-------------------|---------------------------|--|---------|
| Nil | | | | | |

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|--------|-----------|-------------------|---------------------------|--|---------|
| Nil | | | | | |

H. Details of linkage with NFSM

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|--------|-----------|-------------------|---------------------------|--|---------|
| Nil | | | | | |

I. Details of linkage with SMAF (Sub-mission on Agroforestry)

| S. No. | Programme | Nature of linkage | Funds received if any Rs. | Expenditure during the reporting period in Rs. | Remarks |
|--------|-----------|-------------------|---------------------------|--|---------|
| Nil | | | | | |

7. Convergence with other agencies and departments:

8. Innovative Farmers Meet

| Sl.No. | Particulars | Details |
|--------|---|---------|
| | Have you conducted Farm Innovators meet in your district? | No |
| | Brief report in this regard | |

9. Farmers Field School (FFS)

| S. No | Thematic area | Title of the FFS | Budget proposed in Rs. | Expenditure | Brief report |
|-------|---------------|------------------|------------------------|-------------|--------------|
| Nil | | | | | |

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

| No. | Feed Back |
|-----|---|
| 1. | Variety GJG-32 is resistant against tikka and rust disease in heavy rainfall condition as compared to TG-45 ,GJG-22 ,TAG-24. |
| 2. | Application of Metarhiziumanisoplii @ 5 kg/ha with 300 kg/ha castor cake at time of sowing is effective to reduce the infestation of white grub . |
| 3. | Line sowing in cumin crop is very effective to control blight disease |
| 4. | Pheromone trap is very useful for mass trapping of pink boll worm moth in cotton crop. |
| 5. | Chickpea variety GG-5 is high yielding as well as disease resistant compared to GG-2, GJG-3. |
| 6. | Sesamum GT-5 is bold and white seeded and higher yielder (summer). |

10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/ universities:

| No. | Feed Back |
|-----|--|
| 1. | Research needs for control of insect-pest and disease in organic farming. |
| 2. | Salinity problem in Maliya, Halvad and part of Morbi taluka. |
| 3. | Seed rot problem in pomegranate fruit. |
| 4. | Nematode problem in pomegranate crop. |
| 5. | Variety GJG-32 is resistant against tikka and rust disease in heavy rainfall condition as compared to TG-45 ,GJG-22 ,TAG-24. |
| 6. | Wilt in cumin Crop.(GC-4) |
| 7. | Chickpea variety GG-5 is resistant to wilt & blight and change of adverse condition (Chilling effect) as compared to GG-2 and GJG-3. |
| 8. | For better germination soaking of cumin GC-4 seed in water for 2 to 4 hrs. Then dry in shade. |
| 9. | Pod borer problem in groundnut. |
| 10. | Ketosis, Mastitis, FMD, Brucellosis problems in cow and buffalo |
| 11. | Soft rot disease on onion. |

11. Technology Week celebration during 2022: Yes/No, If Yes

Period of observing Technology Week: From 19th to 23rd September 2022

Online / Offline: Offline

Total number of farmers visited : 126

Total number of agencies involved : 3

Number of demonstrations visited by the farmers within KVK campus: 2

Other Details

| Types of Activities | No. of Activities | Number of Farmers | Related crop/livestock technology |
|---|-------------------|-------------------|-----------------------------------|
| Gosthies | 2 | 21 | IPM, MDP |
| Lectures organized | 10 | 126 | Groundnut/ Cotton/ Black gram |
| Exhibition | 1 | 126 | Demonstration of drone |
| Film show | - | - | - |
| Fair | - | - | - |
| Farm Visit | 5 | 103 | Groundnut/ Black gram |
| Diagnostic Practicals | 3 | 12 | Chilly and cotton |
| Supply of Literature (No.) | 7 | 126 | IPM, IDM, animal science |
| Supply of Seed (q) | - | - | - |
| Supply of Planting materials (No.) | - | - | - |
| Bio Product supply (Kg) | - | - | - |
| Bio Fertilizers (q) | - | - | - |
| Supply of fingerlings | - | - | - |
| Supply of Livestock specimen (No.) | - | - | - |
| Total number of farmers visited the technology week | - | 126 | - |

12. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

| State | Crops/cultivars | Area (ha) | Number of beneficiaries |
|---------|------------------------------------|-----------|-------------------------|
| Gujarat | KVK not included in this programme | | |

B. Major area coverage under alternate crops/varieties

| Crops | Area (ha) | Number of beneficiaries |
|-----------------|-----------|-------------------------|
| Oilseeds | | |
| Pulses | | |
| Cereals | | |
| Vegetable crops | | |
| Tuber crops | | |
| Total | | |

C. Farmers-scientists interaction on livestock management

| State | Livestock components | Number of interactions | No.of participants |
|-------|----------------------|------------------------|--------------------|
| | Nil | | |

D. Animal health camps organized

| State | Number of camps | No.of animals | No.of farmers |
|-------|-----------------|---------------|---------------|
| | Nil | | |

E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

| State | Crops | Quantity (qtl) | Coverage of area (ha) | Number of farmers |
|-------|-------|----------------|-----------------------|-------------------|
| | Nil | | | |

F. Large scale adoption of resource conservation technologies

| State | Crops/cultivars and gist of resource conservation technologies introduced | Area (ha) | Number of farmers |
|-------|---|-----------|-------------------|
| | Nil | | |

G. Awareness campaign

| State | Meetings | | Gosthies | | Field days | | Farmers fair | | Exhibition | | Film show | |
|---------|----------|---------------|----------|---------------|------------|---------------|--------------|---------------|------------|---------------|-----------|---------------|
| | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers | No. | No.of farmers |
| Gujarat | - | - | 9 | 561 | 2 | 48 | 3 | 652 | 1 | 324 | - | - |

13. IMPACT

A. 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) |
| Only three year completed of KVK so, OFT, FLD and training conducted with limited staff | | | | |

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

B. Cases of large scale adoption

(Please furnish detailed information for each case)

OFT – 1

OFT on white grub management was conducted for last three years in which Chlorpyrifos 25 E.C. 20 ml/kg seed treatment (GAU recommendation) second treatment of Metarhizium 5 kg + 300 kg castor cake at the time of sowing (JAU recommendation)

- (1) Most of the farmers are adopting seedtreatment for white grub management. in Morbi district white grub problem is observed in Tankara taluka, farmers following university recommendation and other new technical(insecticides) developed recently.
- (2) Metarhizium is best for white grub as well as soil pests damaging groundnut but it is not available in market. most of farmers trust in university bio-product(now not available).

Taluka wise adoption :

| Sr No. | Name of Taluka | Sowing without seed treatment T ₁ | T ₂ | T ₃ |
|--------|----------------|--|----------------|----------------|
| 1. | Tankara | 40% | 59.8% | 0.2% |
| 2. | Wankaner | 62% | 38% | NIL |
| 3. | Halvad | 32% | 67.9% | 0.1% |
| 4. | Morbi | 78% | 22% | NIL |
| 5. | Maliya | 100% | NIL | NIL |

- (3) Infestation of white grub in Morbi and Maliya taluka is not beyond ETL or severe so farmers of these taluka are not using seed treatment for control of white grub.

OFT – 2

Wilt management in cumin

> For the management of wilt disease OFT conducted on farm and farmer's field for three years in which Trichoderma was major component with organic manure. Most of farmers sowing cumin without application of Trichoderma where as in T₂ Trichoderma application with organic manure at the time of sowing and in T₃ two applications of Trichoderma at the time of sowing and after one month of germination. The adoption rate of this technology was as under.

Study of hundred farmers during field visit and training

| Sr No. | Taluka | T ₁ | T ₂ | T ₃ |
|--------|----------|----------------|----------------|----------------|
| 1. | Tankara | 84% | 2% | 14% * |
| 2. | Wankaner | 92.5% | 1.5% | 6% * |
| 3. | Halvad | 85% | 3% | 12% * |
| 4. | Morbi | 86.5% | 2.5% | 11% * |
| 5. | Maliya | 94% | 1% | 5% * |

* only one application after germination.

We have conducted on campus and off campus training and also field day creating awareness among farmers community. Even after obtaining good result of Trichoderma application most of farmers not adopting this technology due to shortage of labour, shortage of organic manure and unavailability of university Trichoderma. Farmers do not trust in other company Trichoderma even after showing good result.

FLD

Varietal FLD

GG-22 : Covered 30 % area of semi spreading groundnut area within 3 years.

GJG-32 : Within 3 years sowing in 1800 to 2000 ha in Tankara taluka where adequate irrigation facility is available.

FLD on wilt management through Trichoderma

Most of farmers are aware that treatment of Trichoderma at the time suppress the wilt disease in cumin but only 5 to 12% farmers are using Trichoderma due to unavailability of Trichoderma(University).

Chick pea GJG-3 and GG-5

More than 90 % farmers of unirrigated area are adopting GJG-3 chick pea variety whereas in irrigated area 70 % farmers select GJG-3 whereas 30 % farmers select GG-5 variety.

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

14. Kisan Mobile Advisory Services

| Month | No. of SMS sent | No. of farmers to which SMS was sent | No. of feedback / query on SMS sent |
|------------|-----------------|--------------------------------------|-------------------------------------|
| Jan 2022 | 4 | 500 | - |
| Feb 2022 | 4 | 700 | - |
| March 2022 | 3 | 1000 | - |
| April 2022 | 6 | 1100 | - |
| May 2022 | 7 | 1000 | - |
| Jun 2022 | 8 | 1136 | - |
| Jul 2022 | 8 | 1136 | - |
| Aug 2022 | 7 | 1136 | - |
| Sept 2022 | 6 | 1136 | - |
| Oct 2022 | 6 | 1136 | - |
| Nov.2022 | 7 | 1136 | - |
| Dec.2022 | 6 | 1136 | - |

| Name of KVK | Message Type | Type of Messages | | | | | | Total |
|-------------|---------------------------------|------------------|-----------|-------------|-----------|-----------|------------------|-------------|
| | | Crop | Livestock | Weather | Marketing | Awareness | Other enterprise | |
| Morbi | Text only | 24 | - | 48 | - | - | - | 72 |
| | Voice only | - | - | - | - | - | - | - |
| | Voice & Text both | - | - | - | - | - | - | - |
| | Total Messages | 24 | - | 48 | - | - | - | 72 |
| | Total farmers Benefitted | 1136 | - | 1136 | - | - | - | 2272 |

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

A. Performance of demonstration units (other than instructional farm)

| Si. No. | Demo Unit | Year of establishment | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---------|-----------------------------------|-----------------------|---------------------|-----------------------|------------------|---------------------|----------------------|--------------------|-----------------|
| | | | | Variety | Produce | Qty. | Cost of inputs (Rs.) | Gross income (Rs.) | |
| 1 | Roof Rain water harvesting system | 2019-20 | 1.40 lac L. | - | Drinking water | 1.40 lac L. | Nil | 60,000/- | - |
| 2 | Nadep compost | 2021-22 | | - | Compost | 3000 kg | 3,000 | 30,000/- | From farm waste |
| 3 | Water harvesting unit | 2017-18 | 2400 m ³ | - | Irrigation water | 2400 m ³ | 2,500 | 72,000/- | - |

B. Performance of instructional farm (Crops) including seed production

| 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 | |
| Cereals | - | - | - | - | - | - | - | - | - |
| Pulses | | | | | | | | | |
| Black Gram | 22/07/22 | 13/10/22 | 2.00 | GU – 2 | Labeled | 8.55 | - | 50744 | - |
| Chickpea | 02/12/21 | 16/03/22 | 0.20 | GG – 5 | Labeled | 1.44 | - | 37530 | - |
| Pigeon pea | 02/08/22 | 25/03/22 | 1.20 | GJP-1 | Labeled | 12.00 | - | 120000 | - |
| Oilseeds | | | | | | | | | |
| Sesame | 29/07/22 | 01/11/22 | 1.00 | GT-6 | Breeder | 2.62 | - | 31309 | - |
| Sesame | 29/07/22 | 31/10/22 | 0.20 | GT-6 | Labeled | 0.43 | - | 4397 | - |
| Groundnut | 31/05/22 | 05/11/22 | 0.90 | GJG-32 | Labeled | 5.73 | - | 35641 | - |
| Groundnut | 31/05/22 | 05/11/22 | 0.90 | GJG-32 | General | 1.52 | - | 9454 | - |
| Fibers | - | - | - | - | - | - | - | - | - |
| Spices & Plantation crops | | | | | | | | | |
| Cumin | 13/11/21 | 23/02/22 | 0.45 | GC-4 | Labeled | 1.87 | - | 120416 | - |
| Floriculture | - | - | - | - | - | - | - | - | - |
| Vegetables | | | | | | | | | |
| Onion | 06/12/21 | 19/04/22 | 0.24 | GJWO-3 | Breeder | 0.05 | - | 17325 | - |
| Onion | 06/12/21 | 19/04/22 | 0.24 | GJWO-3 | General | 0.46 | - | 69000 | - |

C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.): Nil

D. Performance of instructional farm (livestock and fisheries production): Nil

E. Utilization of hostel facilities

Accommodation available (No. of beds):15

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|----------------|------------------------|----------------------------|--------------------------------|
| January 2022 | - | - | - |
| February 2022 | - | - | - |
| March 2022 | - | - | - |
| April 2022 | - | - | - |
| May 2022 | - | - | - |
| June 2022 | - | - | - |
| July 2022 | - | - | - |
| August 2022 | 24 | 1 | - |
| September 2022 | - | - | - |
| October 2022 | - | - | - |
| November 2022 | - | - | - |
| December 2022 | - | - | - |

F. Database management

| S. No | Database target | Database created |
|-------|--|----------------------------|
| 1 | 36 farmers per village of 6 villages from Morbi district | 36 farmers from 6 villages |

G. Details on Rain Water Harvesting Structure and micro-irrigation system

| Amount sanction (Rs.) | Expenditure (Rs.) | Details of infrastructure created / micro irrigation system etc. | Activities conducted | | | | | Quantity of water harvested in '000 litres | Area irrigated / utilization pattern |
|-----------------------|-------------------|--|----------------------------|-----------------------|---------------------------------|------------------------|--------------------------|--|---|
| | | | No. of Training programmes | No. of Demonstrations | No. of plant materials produced | Visit by farmers (No.) | Visit by officials (No.) | | |
| 2,00,000 | 2,00,000 | Farm pond | 1 | - | 50 | 324 | 15 | 2400 | Two life saving irrigation given in 3 ha. land |
| 4,60,000 | 4,60,000 | Roof Rain Water harvesting structure | - | - | - | 154 | 15 | 140 | Water useful for drinking purpose through out the year for this office staff and trainers |

H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level? Yes/No: No

If yes,

Nutritional Garden developed at KVK farm

| Area under nutritional garden (ha) | Component of Nutritional Garden | No. of species / plants in nutritional garden | No. of farmers visited |
|------------------------------------|---------------------------------|---|------------------------|
| | Vegetable crops | | |
| | Fruit crops | | |
| | Others if any | | |
| | | | |

Nutritional Garden developed at Village Level (Area under nutritional garden): Nil

| No. of Villages covered | Component of Nutritional Garden | No. of species / plants in nutritional garden | No. of farmers covered |
|-------------------------|---------------------------------|---|------------------------|
| | Vegetable crops | | |
| | Fruit crops | | |
| | Others if any | | |
| | | | |

I. Details of Skill Development Trainings organized: Nil

| S.No. | Name of KVKs/SAUs/ICAR Institutes | Name of QP/Job role | Duration (hrs) | No. of participants | | | | | |
|-------|-----------------------------------|---------------------|----------------|---------------------|--------|--------|--------|-------|--------|
| | | | | SCs/STs | | Others | | Total | |
| | | | | Male | Female | Male | Female | Male | Female |
| Nil | | | | | | | | | |

17. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Branch code | Account Name | Account Number | MICR Number | IFSC Number |
|---------------------|------------------|----------|-------------|--|----------------|-------------|-------------|
| With Host Institute | SBI | Morbi | 60071 | Revolving Fund A/C,KVK,JAU, Morbi | 36713882996 | 363002022 | SBIN0060071 |
| With KVK | SBI | Morbi | 60071 | Senior Scientist & Head , KVK,JAU, Morbi | 36713882907 | 363002022 | SBIN0060071 |

B. Utilization of KVK funds during the year 2022-23 (Rs. in lakh)(Till Dec, 2022)

| S. No. | Particulars | Sanctioned | Released | Expenditure |
|---------------------------------------|--|--------------|---------------|--------------|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 89.00 | 84.89 | 60.85 |
| 2 | Traveling allowances | 0.55 | 0.40 | 0.35 |
| 3 | Contingencies | | | |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 3.80 | 3.00 | 3.72 |
| B | POL, repair of vehicles, tractor and Equipments | | | |
| C | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | 4.40 | 3.12 | 4.38 |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | | |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | | | |
| 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 | | | |
| TOTAL (A) | | 97.75 | 91.41 | 69.30 |
| B. Non-Recurring Contingencies | | | | |
| 1 | Works | - | - | - |
| 2 | Equipments including SWTL & Furniture | - | - | - |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | - | - | - |
| 4 | Library (Purchase of assets like books & journals) | - | - | - |
| TOTAL (B) | | - | - | - |
| C. REVOLVING FUND | | - | 12.54 | 2.00 |
| GRAND TOTAL (A+B+C) | | 97.75 | 103.95 | 71.30 |

C. Status of revolving fund (Rs.) for the Four years

| Year | Opening balance as on 1 st April | Income during the year | Expenditure during the year | Net balance in hand as on 1 st April of each year |
|---------------------------|---|------------------------|-----------------------------|--|
| April 2018 to March 2019 | 4,78,769/- | 8,79,198 | 9,07,466/- | 4,50,501/- |
| April 2019 to March 2020 | 4,50,501/- | 11,95,154/- | 9,10,619/- | 7,35,036/- |
| April 2020 to March 2021 | 7,35,036/- | 5,32,993/- | 6,58,431/- | 6,09,598/- |
| April 2021 to March, 2022 | 6,09,598/- | 1,58,832/- | 41,028/- | 7,25,326/- |
| April 2022 to March 2023 | 7,25,326/- | 5,29,121/- | 2,00,250/- | 10,54,197 |

17. Details of HRD activities attended by KVK staff during year

| Name of the staff | Designation | Title of the training programme | Institute where attended | Mode (Online/Offline) | Dates |
|--------------------|------------------------------|---|--|-----------------------|-------------|
| Dr L L Jivani | Senior Scientist and Head | Faculty Development Programme of Extension Education | EEI, Anand | Offline | 03-05/02/22 |
| Dr L L Jivani | Senior Scientist and Head | National Conference of KVKs | Solan (H.P.) | Offline | 01-02/06/22 |
| Dr L L Jivani | Senior Scientist and Head | Annual Zonal Workshop of KVKs | EEI, Anand | Offline | 07-09/07/22 |
| Dr L L Jivani | Senior Scientist and Head | National Workshop on Natural Farming | Gwalior (M.P.) | Offline | 03/12/22 |
| Prof. D.A. Saradva | Scientist (Plant Protection) | Participatory extension management skill in Agriculture and Allied fields | EEI, Anand | Offline | 16-23/12/22 |
| Dr. K.N. Vadaria | Scientist (Agronomy) | Orientation cum Training Programme on Natural Farming | State Natural Farming Training Centre, Gurukul, Kurukshetra, Haryana | Offline | 08-09/12/22 |

18. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs

| Name of the village | Total No. of families surveyed | Key interventions implemented | No. of farmers covered in each intervention | Change in income (Rs/unit) | |
|---|--------------------------------|-------------------------------|---|----------------------------|----------------------|
| | | | | Before (base year) | After (current year) |
| Jepur, Haripar, Halvad, Tikar, Ranmalpur, Bagthala etc. | 110 | - | - | - | - |

19. Details of activities planned under NARI /PKVY / TSP / KKA, etc.

| S. No. | Name of the programme | No. of villages adopted | Key activities performed | No. of activities carried out | No. of families covered |
|--------|-----------------------|-------------------------|--------------------------|-------------------------------|-------------------------|
| 1 | OFT, Training | 5 | - | 25 | 152 |

20. Details of Progress of ARYA Project

| Name of Enterprise | No of Training Conducted | No of Beneficiaries | No of Extension Activities | No of Beneficiaries | No of Unit established | Change in income | | No. Of Groups Formed |
|--------------------|--------------------------|---------------------|----------------------------|---------------------|------------------------|------------------|-------|----------------------|
| | | | | | | Before | After | |
| Nil | | | | | | | | |

21. Details of SAP

| S. No. | Types of major Activity conducted- SwachhtaPakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc. | No. of Programmes conducted | No. of Participants |
|--------|--|-----------------------------|---------------------|
| 1 | SwachhtaPakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc. | 7 | 1057 |

| Sr. No | Name of KVK | Date | Activity | No of VIPs | No of Farmers | Others | Total |
|--------|-------------|-------------------|--|------------|---------------|--------|-------|
| 1 | Morbi | 09/06/22 | Awareness campaign, cleaning of office and surrounding area, household waste management into compost, farm waste management, etc. | 0 | 45 | 6 | 51 |
| 2 | | 11/07/22 | Awareness campaign, cleaning of office and surrounding area, household waste management into compost, farm waste management, etc. | 0 | 25 | 5 | 30 |
| 3 | | 05/08/22 | Awareness programme on waste decomposing and cleanliness | 0 | 20 | 6 | 26 |
| 4 | | 17/09/22 | Awareness campaign, cleaning of office and surrounding area and waste decomposing. | 0 | 64 | 6 | 70 |
| 5 | | 02/10 to 31/10/22 | Awareness campaign, Crop Residue Management, Demonstration of technologies on waste and wealth. Cleaning of villages programme with farmers. Orientation of school children on various topics like hygiene, sanitation, cleanliness and Cleaning of offices and campus and disposal of scraps, space freed, etc. | 0 | 511 | 20 | 531 |
| 6 | | 09/11/22 | Cleaning of office and surrounding area, farm waste management, etc. | 0 | 6 | 6 | 12 |
| 7 | | 16/12 to 31/12/22 | SwachhtaPakhwada | 0 | 300 | 37 | 337 |

21. Books published 2022-23

| Title of the Book | Authors | ISBN No (Optional) / Pages No | Description/review of the book (one paragraph/sentence) |
|-------------------|---------|-------------------------------|---|
| Nil | | | |

22. Please include any other important and relevant information which has not been reflected above (write in detail): Nil

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

| Clientele | No. of Courses | Male | Female | Total participants |
|-------------------------|----------------|-------------|------------|--------------------|
| Farmers & farm women | 36 | 1496 | 268 | 1764 |
| Rural youths | - | - | - | - |
| Extension functionaries | 3 | 107 | 2 | 109 |
| Sponsored Training | 10 | 3422 | 434 | 3856 |
| Vocational Training | - | - | - | - |
| Total | 49 | 5025 | 704 | 5729 |

2. Frontline demonstrations

| Crops/Enterprise | No. of Farmers | Area(ha) | Units/Animals |
|-----------------------|----------------|-----------|---------------|
| Oilseeds | 20 | 8.0 | - |
| Pulses | 10 | 4.0 | - |
| Cereals | 20 | 8.0 | - |
| Vegetables | - | - | - |
| Other crops | 15 | 6.0 | - |
| Hybrid crops | - | - | - |
| Total | | | |
| Livestock & Fisheries | - | - | - |
| Other enterprises | - | - | - |
| Total | - | - | - |
| Grand Total | 65 | 26 | - |

3. Technology Assessment & Refinement

| Category | No. of Technology Assessed & Refined | No. of Trials | No. of Farmers |
|----------------------------|--------------------------------------|---------------|----------------|
| Technology Assessed | | | |
| Crops | 2 | 6 | 6 |
| Livestock | - | - | - |
| Various enterprises | - | - | - |
| Total | 2 | 6 | 6 |
| Technology Refined | | | |
| Crops | 1 | 3 | 3 |
| Livestock | - | - | - |
| Various enterprises | - | - | - |
| Total | 1 | 3 | 3 |
| Grand Total | 3 | 9 | 9 |

4. Extension Programmes

| Category | No. of Programmes | Total Participants |
|----------------------------|-------------------|--------------------|
| Extension activities | 198 | 9997 |
| Other extension activities | 6 | 468 |
| Total | 204 | 10465 |

5. Mobile Advisory Services

| Name of KVK | Message Type | Type of Messages | | | | | | Total |
|-------------|---------------------------------|------------------|-----------|-------------|-----------|-----------|------------------|-------------|
| | | Crop | Livestock | Weather | Marketing | Awareness | Other enterprise | |
| | Text only | 24 | - | 48 | - | - | - | 72 |
| | Voice only | - | - | - | - | - | - | - |
| | Voice & Text both | - | - | - | - | - | - | - |
| | Total Messages | 24 | - | 48 | - | - | - | 72 |
| | Total farmers Benefitted | 1136 | - | 1136 | - | - | - | 2272 |

6. Seed & Planting Material Production

| | Quintal/Number | Value (Rs.) |
|----------------------------|----------------|-------------|
| Seed (q) | 80.21 | 4,95,816 |
| Planting material (No.) | 100 | - |
| Bio-Products (kg) | - | - |
| Livestock Production (No.) | - | - |
| Fishery production (No.) | - | - |

7. Soil, water & plant Analysis

| Samples | No. of Beneficiaries | Value (Rs.) |
|--------------|----------------------|-------------|
| Soil | 15 | 750 |
| Water | 17 | 850 |
| Plant | - | - |
| Total | 32 | 1600 |

8. HRD and Publications

| Sr. No. | Category | Number |
|---------|-----------------------------|--------|
| 1 | Abstract | - |
| 2 | Workshops | 2 |
| 3 | Conferences | 1 |
| 4 | Meetings | 4 |
| 5 | Trainings for KVK officials | 3 |
| 6 | Visits of KVK officials | 4 |
| 7 | Book published | - |
| 8 | Training Manual | - |
| 9 | Book chapters | - |
| 10 | Booklet | - |
| 11 | Leaflets/ Folder/ Pamphlet | 4 |
| 12 | Research papers | - |
| 13 | Technical Bulletin | - |
| 14 | Popular article | 1 |
| 15 | Lead papers | - |
| 16 | Seminar papers | - |
| 17 | Extension folder | - |
| 18 | Proceedings | 1 |
| 19 | Award & recognition | - |
| 20 | On-going research projects | - |
| 21 | Other | - |