**ICAR-ATARI, Pune**
**ANNUAL ACTION PLAN OF KVKs, Amreli**
**(1stJanuary to 31st December, 2025)**

## 1. GENERAL INFORMATION ABOUT THE KVK

The idea of establishment of Krishi Vigyan Kendra (KVK) - Farm Science Center was evolved by the recommendations of the education commission/review by the planning commission and inter-Ministerial Committee, and further recommendation by the committee headed by Dr. Mohan Singh Mehta appointed by ICAR in 1973.

The first KVK was established in 1974 at Pondicherry under the administrative control of the Tamilnadu Agriculture University, Coimbtore. The number of KVKs increased 290 during the V to IX Five Year Plan. The Hon'ble Prime Minister of India announced that by the end of 2007 there should be one KVK in each district of the country.

Total 50 KVKs established during Twelfth Plan. At present there are 731 KVKs in which 38 KVKs under the control of State Governments, 66 under ICAR Institutes, 103 under NGOs, 506 under Agricultural Universities, 3 under Central Universities, 3 under Public Sector Undertakings, 7 under Deemed to be Universities and 5 under Other Educational Institutions. Gujarat state is having 30 KVKs of which, 07 KVKs are under Junagadh Agricultural University and Amreli is one of them, established in March, 2005.

**The mandates of KVKs as under:**

(1) Organize short and long term vocational training courses in agriculturaland allied Vocations for the farmers and rural youths with emphasis on "Learning by doing" or higher production on farms and generating self employment.

(2) Organizing training to update the extension personnel with emerging advances in agricultural research on regular basis.

(3) Organize front-line demonstrations on various crops to generate production data and feedback information.

(4) Conducting "On farm testing" for identification of technologies in terms of location specific sustainable land use systems

**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) |
|---|---|---|---|---|
| Senior Scientist and Head<br>Krishi Vigyan Kendra,<br>Junagadh Agricultural University,<br>Keriya Road, Model farm,<br>Amreli (Gujarat)-365601 | Office<br>02792-227122 | FAX | **kvkamreli@gmail.com** | amrelikvk8.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,<br>Agril. Campus, Motibaugh,<br>**Junagadh-362001 (Gujarat)** | 0285<br>2672080-90 | 0285<br>2672004<br>2672653 | ----- | www.jau.in |

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

| Name | Telephone/Contact | | |
|---|---|---|---|
| | Office | Mobile | E-mail |
| Dr. Minaxi K. Bariya | 02792227122 | 9998311249 | minaxibariya@gmail.com |

**1.4. Date and Year of sanction:** Deputy Secretary, ICAR, New Delhi, Letter No. 13-16/2003/1, Dt. 7.12.2004

**1.5. Staff Position (as on March, 2025)**

| Sr. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Date of joining | Permanent /Temporary | Category (SC/ST/OBC/ Others) |
|---|---|---|---|---|---|---|---|---|
| 1 | I/c Senior Scientist & Head | Dr. Minaxi K. Bariya | Subject Matter Specialist | Extension Education | | 19/02/2025 | Permanent | General |
| 2 | Subject Matter Specialist | Dr. N. Tiwari | Subject Matter Specialist | Home Science | 57700-182400 (UL-10) | 04/09/2018 | Permanent | General |
| 3 | Subject Matter Specialist | Mr. V. S. Parmar | Subject Matter Specialist | Extension Education | 57700-182400 (UL-10) | 12/05/2016 | Permanent | ST |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | Subject Matter Specialist | Mr. N. M. Kachhadiya | Subject Matter Specialist | Plant Protection | 57700-182400 (UL-10) | 25/01/2017 | Permanent | General |
| 5 | Subject Matter Specialist | Vacant | Subject Matter Specialist | Horticulture | - | - | - | - |
| 6 | Subject Matter Specialist | Vacant | Subject Matter Specialist | Agriculture Engineering | - | - | - | - |
| 7 | Subject Matter Specialist | Vacant | Subject Matter Specialist | Animal Science | - | - | - | - |
| 8 | Subject Matter Specialist | Vacant | Subject Matter Specialist | Crop Production | - | - | - | - |
| 8 | Programme Assistant | Ms. K. K Gadhiya | Programme Assistant | Plant pathology | 09300-34800 | 30/07/2018 | Permanent | General |
| 9 | Computer Programmer | Shri S . N. Joshi | Computer Programmer | - | 39900-126600 | 01/07/2010 | Permanent | General |
| 10 | Farm Manager | Mr. S. G. Baria | Farm Manager | Agriculture | 09300-34800 | 30/07/2018 | Permanent | ST |
| 11 | Senior Clark | Mr. D. M. Parmar | Senior Clark | 25500-81100(L-4) | - | 08/06/2024 | Permanent (On Pool) | OBC |
| 12 | Stenographer | Vacant | Stenographer | - | - | - | - | - |
| 13 | Driver | Outsourcing | Driver | - | - | - | - | - |
| 14 | Driver | Outsourcing | Driver | - | - | - | - | - |
| 15 | Supporting staff | Outsourcing | Supporting staff | - | | - | | |
| 16 | Supporting staff | Vacant | Supporting staff | - | - | - | - | - |

**1.6. Total land with KVK (in ha):**

| S. No. | Item | Area (ha) |
|---|---|---|
| 1 | Under Buildings | 3.50 |
| 2. | Under Demonstration Units | 1.50 |
| 3. | Under Crops | 12.50 |
| 4. | Orchard/ Agro-forestry | 0.50 |
| 5. | Other if any (Specify | 2.0 |
| 6. | Total | **20.00** |

**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.) | |
| 1. | Administrative Building | ICAR | 2008<br>2008 | 500 | 3190000<br>2088000 | ----- |
| 2. | Farmers Hostel | ICAR | | 305 | | |
| 3. | Staff Quarters (6) | ICAR | 2008 | 400 | 3204000 | |
| 4. | Farm Wall | ICAR | 2008 | - | - | |
| 5. | RWH system | ICAR | 2008 | - | 960000 | |
| 6. | Threshing yard | ICAR | 2009 | - | - | |
| 7. | Godown and processing shed | RKVY | 2009 | 70.62 | 500000 | |
| 8. | Poly House | RKVY | 2010 | 320 | 281600 | |
| 9. | Net House | RKVY | 2010 | 150 | 64450 | |
| 10. | Training hall | RKVY | 2010 | 190.99 | 1396300 | |
| | | | | | | |

**B) Vehicles**

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms Running | Present status |
|---|---|---|---|---|
| M&M, Bolero XL | 2006 | 4,86,500 | 33132 | Condition is not good |
| Tractor | 2005 | 3,80,000 | --- | |
| Motor Cycle | 2010 | 42,831 | 23569 | Working condition |
| Power Tiller with implements | 2011 | 1,42,000 | --- | |
| Mini Tractor with implements | 2014 | 3,74,820 | --- | |
| M&M, Bolero XL | 2020 | 7,81,025 | 303697 | |

**C) Equipment& AV aids**

| Name of the equipment / Implements | Year of purchase | Cost (Rs.) | Present status |
|---|---|---|---|
| Digital camera | 2008-09 | 11070 | Working condition |
| Air assisted blast type sprayer | 2008-09 | 98750 | Working condition |
| Vacuum cleaner, RO, water cooler | 2008-09 | 41780 | Working condition |
| Samsung A/C, Nos.-2 | 2008-09 | 47300 | Working condition |
| Fax machine | 2008-09 | 17500 | Working condition |
| LCD projector | 2008-09 | 98799 | Working condition |
| Winnowing fan | 2008-09 | 8500 | Working condition |
| Chaff cutter | 2008-09 | 30188 | Working condition |

| | | | |
|---|---|---|---|
| Plasma TV, Nos.-2 (21 and 52") | 2008-09 | 139952 | Working condition |
| Cotton stock shredder-Nos.-3 | 2008-09 | 363000 | Working condition |
| Spiral binding machine | 2008-09 | 9090 | Working condition |
| Rotavator with cultivator, Nos.-2 | 2008-09 | 180000 | Working condition |
| Inverter | 2008-09 | 19800 | Working condition |
| Manually operated seed dressing drum | 2008-09 | 20930 | Working condition |
| Exhibition display | 2008-09 | 39974 | Working condition |
| Decorticator groundnut machine | 2008-09 | 98850 | Working condition |
| Cotton shredder, Nos.-2 | 2008-09 | 242000 | Working condition |
| Battery operated sprayer | 2008-09 | 4940 | Working condition |
| Aspee knapsack sprayer | 2008-09 | 7400 | Working condition |
| Bullock drawn pipe farm seed drill | 2008-09 | 161000 | Working condition |
| Zero till drill | 2008-09 | 66725 | Working condition |
| Bullock drawn clod breaker | 2008-09 | 52000 | Working condition |
| Tractor operated groundnut digger | 2008-09 | 235500 | Working condition |
| Multipurpose thresher (engine operated) | 2008-09 | 114000 | Working condition |
| Mobile seed processing unit | 2008-09 | 1685000 | Working condition |
| Electronic balance | 2008-09 | 19425 | Working condition |
| Power generated | 2008-09 | 49500 | Working condition |
| RO system | 2008-09 | 24450 | Working condition |
| Air condition Nos.-2 | 2008-09 | 51580 | Working condition |
| Air condition, Nos.-3 | 2008-09 | 89970 | Working condition |
| Photo copier | 2008-09 | 124000 | Working condition |
| LCD and accessories | 2008-09 | 103912 | Working condition |
| Oven and freeze | 2008-09 | 30605 | Working condition |
| Tractor drawn harrow cum cultivator | 2008-09 | 75000 | Working condition |
| Planter | 2008-09 | 44000 | Working condition |
| Rotavator | 2008-09 | 96000 | Working condition |
| Laptop | 2008-09 | 47500 | Working condition |
| Pipe frame blade harrow piece | 2008-09 | 11000 | Working condition |
| Solar equipments | 2008-09 | 81830 | Working condition |
| Gas connection for lab. | 2009-10 | 9700 | Working condition |
| Digital Sony Camera | 2009-10 | 24750 | Working condition |
| Post Whole Digger | 2009-10 | 38000 | Working condition |
| Motor, 1 Hp | 2009-10 | 8650 | Working condition |
| Power Generator | 2009-10 | 45576 | Working condition |
| Multi Crop thresher | 2010-11 | 38000 | Working condition |
| BOD incubator | 2010-11 | 75863 | Working condition |
| Compound light microscope | 2010-11 | 90851 | Working condition |
| Motor 7.5 Hp | 2010-11 | 28600 | Working condition |
| Motor 5 Hp | 2010-11 | 17000 | Working condition |
| Desktop Computer | 2010-11 | 34810 | Working condition |

| | | | |
|---|---|---|---|
| Hot air Oven | 2010-11 | 15215 | Working condition |
| Hot plate | 2010-11 | 4725 | Working condition |
| Physical Balance | 2010-11 | 3623 | Working condition |
| Refrigerator | 2010-11 | 19200 | Working condition |
| PH meter | 2010-11 | 3990 | Working condition |
| Conductivity bridge | 2010-11 | 9450 | Working condition |
| Chemical Balance | 2010-11 | 45066 | Working condition |
| Shaker-2 no. | 2010-11 | 49000 | Working condition |
| Flame Photometer | 2010-11 | 44887 | Working condition |
| Spectrophotometer | 2010-11 | 39480 | Working condition |
| Water Distillation Still | 2010-11 | 157500 | Working condition |
| Seed Drill | 2010-11 | 27500 | Working condition |
| Winnower | 2010-11 | 37000 | Working condition |
| Disc Plow | 2012-13 | 30400 | Working condition |
| Disc Harrow | 2012-13 | 37500 | Working condition |
| Nine tine Cultivator | 2012-13 | 19600 | Working condition |
| PC with Accessories (2 No.) | 2013-14 | 65970 | Working condition |
| Printer (2 No.) | 2013-14 | 13898 | Working condition |
| Scanner | 2013-14 | 4309 | Working condition |
| PC with Accessories (2 No.) | 2015-16 | 77590 | Working condition |
| Printer | 2015-16 | 11900 | Working condition |
| Rotavator (NICRA) | 2015-16 | 70000 | Working condition |
| Mobile shredder(NICRA) | 2015-16 | 146000 | Working condition |
| Chaff cutter(NICRA) | 2015-16 | 57000 | Working condition |
| Multi crop thresher(NICRA) | 2015-16 | 155000 | Working condition |
| Rear mounted reaper (NICRA) | 2015-16 | 95000 | Working condition |
| Digital Camera | 2016-17 | 14400 | Working condition |
| Desktop Computer | 2016-17 | 34115 | Working condition |
| Printer | 2016-17 | 12546 | Working condition |
| Automatic seed cum fertilizer drill(NICRA) | 2016-17 | 66412 | Working condition |
| Dibbler (03 nos.) | 2016-17 | 6000 | Working condition |
| Seed dressing drum (5 nos.) (NICRA) | 2016-17 | 15000 | Working condition |
| Rotavator (NICRA) | 2016-17 | 89040 | Working condition |
| Bund former (NICRA) | 2016-17 | 13650 | Working condition |
| Air conditioner (02 nos.) | 2016-17 | 79980 | Working condition |
| Desktop Computer | 2016-17 | 34115 | Working condition |
| Photo copier | 2016-17 | 144391 | Working condition |
| Integrated community computer | 2016-17 | 110644 | Working condition |
| Multi crop thresher | 2017-18 | 187040 | Working condition |
| Computer with UPS | 2017-18 | 42889 | Working condition |
| Computer with UPS (2 Nos.) | 2018-19 | 88400 | Working condition |

| | | | |
|---|---|---|---|
| Printer | 2018-19 | 11416 | Working condition |
| UPS (2 Nos.) | 2018-19 | 9000 | Working condition |
| Bolero Jeep | 2019-20 | 781025 | Working condition |
| MB Plough (NICRA) | 2019-20 | 33143 | Working condition |
| Designer table (2 Nos.) (DAMU) | 2019-20 | 32000 | Working condition |
| Almirah (DAMU) | 2019-20 | 13000 | Working condition |
| Revolving chair (2 Nos.) (DAMU) | 2019-20 | 24998 | Working condition |
| Desktop computer (DAMU) | 2019-20 | 42532 | Working condition |
| UPS (2 nos.) (DAMU) | 2019-20 | 3598 | Working condition |
| Printer (DAMU) | 2019-20 | 21110 | Working condition |
| Flamephotometer | 2020-21 | 52255 | Working condition |
| Spectrophotometer | 2020-21 | 285000 | Working condition |
| pH meter | 2020-21 | 24499 | Working condition |
| Keyboard | 2021-22 | 2650 | Working condition |
| Hard disk (2 nos.) | 2021-22 | 8900 | Working condition |
| Smart television | 2021-22 | 149512 | Working condition |
| Galvanized steel sheet (6 nos.) | 2021-22 | 17100 | Working condition |
| DSLR camera | 2021-22 | 66750 | Working condition |
| Outdoor watertank (5000 liter capacity) | 2021-22 | 36000 | Working condition |
| Ceiling fan (5 nos.) | 2021-22 | 9605 | Working condition |
| Mini dal mill (2 nos.) (ARYA) | 2021-22 | 290290 | Working condition |
| Flour mill kit (2 nos.) (ARYA) | 2021-22 | 99396 | Working condition |

**1.8. Details of SAC meetings to be conducted in the year**

| Sl.No. | Particulars | Proposed date of meeting |
|---|---|---|
| 1 | Scientific Advisory Committee – Meeting 1 | 29/01/2025 |

**2. DETAILS OF JURISDICTION AREA UNDER KVK (No. of talukas): 11**

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

| S. No | Farming system/enterprise |
|---|---|
| 1 | Dry Farming |
| 2 | Rainfed : Cotton, Groundnut, Sesame, Black gram, Green gram, Mango, Onion |
| 3 | Agriculture – Horticulture (Mango) |
| 4 | Agriculture – Dairy |
| 5 | Agriculture – Fisheries |
| 6 | Cotton based cropping system |
| 7 | Groundnut based cropping system |
| 8 | Sesame based cropping system |
| 9 | Enterprise: Poultry, Fishery, Dairy, Sericulture, Vermicompost |

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

**a. Soil type**

| Sl. No. | Agro-climatic Zone | Characteristics |
|---|---|---|
| 1 | North Saurashtra Agro climatic Zone VI | Medium black soil, coastal alluvial soil, rocky soil and alkaline soil<br>The climate of the district varies from moderately hot throughout the year except in winter. The climate is humid along with the coastal belt. The temperature varies from 8.01° Celsius in January to 43.7° Celsius in May. The average rainfall of last three years is 706 mm. |

**b. Topography**

| S. No. | Agro ecological situation | Characteristics |
|---|---|---|
| 1 | Medium black soil with 400-700 mm rainfall | - |
| 2 | Shallow black soil with 600-700 mm rainfall | - |
| 3 | Saline - alkali (Heavy texture) soil with 500-600 mm rainfall | Saline groundwater |

## 2.3. Soil Types

| S. No | Soil type | Characteristics |
|---|---|---|
| 1 | Medium black | Major portion of the district is covered by the medium black soil, which is considered very productive. It is rich in lime, magnesia and alumina but poor in phosphorus, nitrogen and organic matters. It can retain considerable moisture and is much suitable for agriculture. |
| 2 | Coastal alluvial | The coastal alluvial soil is found on the coastal areas of Jafrabad and Rajula. Among the whole of the coastal areas, the land is sandy. However, the soils in Rajula and Jafrabad are<br>less productive as they are saline. The soils in the northern part of the district including Babra and parts of Kunkavav Vadia and Dhari talukas are shallow and rocky. Certain areas in Amreli taluka known as Kharapat are poor in cultivation; but this taluka possesses the best land along the north and the south banks of the Shetrunji. |
| 3 | Rocky soils | The soil of Dhari taluka is lighter and near the Gir forest redder. The soil on the southern part of the district is light in colour with only few fertile gradients, and in many places, it is<br>rocky and barren. |

**2.4. Area, Production and Productivity of major crops cultivated in the district (Ref. Year 2022)**

| Sr. No. | Crop | Area (ha) | Production (M.T.) | Production in kg |
|---|---|---|---|---|
| 1 | Green gram | 71.50 | 73.43 | 1026.97 |
| 2 | Tur (Red Gram) | 34.43 | 34.07 | 989.60 |
| 3 | Wheat | 206.73 | 790.38 | 3823.26 |
| 4 | Gram | 1085.10 | 2041.23 | 1881.14 |
| 5 | Groundnut | 2032.97 | 4685.72 | 2304.86 |
| 6 | Sesame | 225.36 | 207.50 | 920.75 |
| 7 | Castor | 6.36 | 13.71 | 2155.42 |
| 8 | Irrigated Cotton (Lint) | 3018.49 | 9590.47 | 540.13 |
| 9 | Unirrigated Cotton (Lint) | 1824.30 | 6940.47 | 646.76 |
| 10 | Cumin | 37.54 | 33.43 | 890.51 |
| 11 | Onion | 156.69 | 5442.24 | 34732.51 |
| 12 | Garlic | 59.17 | 428.38 | 7239.82 |
| 13 | Bajra | 54.37 | 135.25 | 2487.57 |
| 14 | Udad | 17.50 | 13.39 | 765.23 |
| 15 | Math | 0.82 | 00.36 | 440.62 |
| 16 | Soybean | 109.14 | 177.97 | 1630.69 |
| 17 | Sugarcane | 0.16 | 11.36 | 71000.00 |
| 18 | Maize | 1.35 | 2.63 | 1951.35 |
| 19 | Isabgul | 0.34 | 0.27 | 806.57 |

*Source: District-wise Area, Production and Yield of Important Food & Non-food Crops in Gujarat State*
*Year: 2021- 22*

**2.4.1 Area and Production Horticultural crops cultivated in the district**

| Sr. No. | Crop | Area (ha) | Production (M.T.) | Sr. No. | Crop | Area (ha) | Production (M.T.) |
|---|---|---|---|---|---|---|---|
| 1 | Mango | 6804 | 55521 | 16 | Tomato | 2016 | 46368 |
| 2 | Sapota | 376 | 2940 | 17 | Cauliflower | 459 | 6197 |
| 3 | Citrus | 690 | 7638 | 18 | Cluster bean | 1307 | 10456 |
| 4 | Ber | 109 | 822 | 19 | Cow Pea | 845 | 13385 |
| 5 | Banana | 110 | 4319 | 20 | Cucurbits | 2409 | 21268 |
| 6 | Guavava | 275 | 2236 | 21 | Cumin | 3800 | 2736 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7 | Pomegranate | 104 | 499 | 22 | Chilli-Dry | 376 | 846 |
| 8 | Papaya | 80 | 3040 | 23 | Garlic | 5900 | 42716 |
| 9 | Custard Apple | 47 | 400 | 24 | Coriander | 7400 | 10952 |
| 10 | Aonla | 20 | 207 | 25 | Ginger | 04 | 70 |
| 11 | Coconut | 107 | 868 | 26 | Turmeric | 29 | 493 |
| 12 | Onion | 15700 | 400350 | 27 | Fenugreek | 29 | 48 |
| 13 | Brinjal | 2334 | 42012 | 28 | Ajwain | 190 | 171 |
| 14 | Cabbage | 903 | 18241 | 29 | Rose | 23 | 163 |
| 15 | Okra | 1625 | 14625 | 30 | Marigold | 08 | 58 |

*Source: District wise estimated area, production and productivity of horticultural crops for the year 2021-22*

**2.5. Weather data (2025)**

| Month | Normal RF(mm) | Normal Rainy days (number) | Temperature ($^0$ C) | | Relative Humidity (%) | |
|---|---|---|---|---|---|---|
| | | | Maximum | Minimum | Maximum | Minimum |
| January | 0.0 | 0 | 29.6 | 13.7 | 69 | 27 |
| February | 0.0 | 0 | 32.6 | 16.6 | 60 | 21 |
| March | 0.0 | 0 | 36.9 | 19.4 | 54 | 16 |
| April | 0.0 | 0 | 40.1 | 24.4 | 56 | 17 |
| May | 37.4 | 2 | 42.2 | 27.0 | 65 | 24 |
| June | 102.0 | 8 | 38.9 | 26.7 | 80 | 49 |
| July | 284.0 | 16 | 32.2 | 26.1 | 88 | 75 |
| August | 165.6 | 12 | 31.2 | 25.2 | 88 | 72 |
| September | 207.4 | 7 | 32.4 | 24.4 | 87 | 66 |
| October | 162.4 | 7 | 34.5 | 24.0 | 82 | 54 |
| November | 0.0 | 0 | 33.7 | 17.8 | 66 | 26 |
| December | 0.0 | 0 | 28.9 | 13.5 | 62 | 26 |
| **Total** | **958.8** | **52** | **413.2** | **258.8** | **857** | **473** |
| **Average** | **--** | | **34.4** | **21.6** | **71** | **39** |

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

| Livestock | Milk Production | State share (in %) |
|---|---|---|
| Crossbred cows | 3.10 | Rank 31 (0.05 %) |
| Indigenous cow | 135.83 | Rank 05 (4.73%) |
| Buffalo | 147.39 | Rank 24 (1.88 %) |
| Goats | 10.48 | Rank 09(3.09 %) |
| **Total** | **296.8** | **296.80Tonnes/day Rank 23 (1.77 %)** |

*Source: 37th issue on estimates of major livestock products for the year 2019-20, Gujarat state.*

**2.7. New Adopted village: Details of Operational area/Villages (2025-26 to 2029-30)**

| Sr. No. | Name of village | Name of Taluka | Name of District | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|---|
| 1 | Varudi | Amreli | Amreli | Groundnut, Cotton, Soybean, Sesame, Wheat, Chickpea, Onion, | Heavy infestation of pink bollworm and sucking pest in cotton, Sesame leaf blight, Stem | *IPM, IDM and INM in major crops of this area, *Motivate the farmers for Natural |
| 2 | Chakkargadh | Amreli | Amreli | | | |
| 3 | Jarakhiya | Lathi | Amreli | | | |
| 4 | Timbi | Jafarabad | Amreli | | | |
| 5 | Uchaiya | Rajula | Amreli | | | |
| 6 | Mota-zinzuda | Savarkundla | Amreli | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 7 | Pithavadi | Savarkundla | Amreli | Mango Enterprises are dairy business | rot disease and white grub in Groundnut, Less area under Horticultural crops. | Farming.<br>*To create awareness for value addition.<br>*Increase area under Horticulture crops.<br>*Entrepreneur development. |
| 8 | Gigasan | Dhari | Amreli | | | |
| 9 | Pir-khijadiya | Babra | Amreli | | | |
| 10 | Rugnathpur | Khambha | Amreli | | | |
| 11 | Arjansukh | Kunkavav | Amreli | | | |
| 12 | Khajuri | Kunkavav | Amreli | | | |
| 13 | Mota Kankot | Liliya | Amreli | | | |
| 14 | Sapar | Bagasara | Amreli | | | |
| 15 | Pipaliya Nava | Bagasara | Amreli | | | |

**2.8. Priority thrust areas:**

| Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|
| Cotton, Groundnut, Castor, Cumin, Wheat, vegetables, fruits, etc. | Pink boll worm, white grub, castor semilooper cumin wilt, Chilli thrips/mite, brinjal fruit & shoot, borer | Integrated Crop Management in major crops |
| Farm waste | | Recycling of farm waste through composting, vermi-compost, green manuring, etc. |
| Micro irrigation | Fertigation and maintenance | Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques |
| Soil | | Reclamation of saline & alkaline soils |
| Farm Women | Awareness and lack of knowledge | Farm women empowerment by training in value addition, handicrafts, and small scale enterprises |
| Horticulture | | Promotion of arid horticulture fruit crops |
| Improved Implements | Use of traditional method | Popularization of the mechanized technological know how |

**2.9 Abstract of intervention undertaken:**

| Sr. No. | Thrust area | Crop/ Enterprise | Identified problem | Intervention |
|---|---|---|---|---|
| 1. | Integrated pest management | Groundnut | White grub infestation | FLD-20, Training and diagnostic visit |
| 2. | Improved variety of | Groundnut | Low yield and infestation of Stem rot | CFLD-150 (GJG-32), Training |

| | | | | |
|---|---|---|---|---|
| | Groundnut | | | |
| 3. | Integrated pest management | Cotton | Pink boll worm infestation | FLD-20, training and diagnostic visit |
| 4. | Integrated pest management | Chickpea | Infestation of *Helicoverpaarmigera* | OFT-1, Training and diagnostic visit |
| 5. | Improved variety of Chickpea | Chickpea | Low yield and wilt disease | FLD-25, (GG-5) training |
| 6. | Improved variety of wheat | wheat | Low yield | FLD-25 (GW-463), Training |
| 7. | Improved variety (Horticulture) | Tomato | Low Yield & disease occurrence | FLD-10, Tomato (GT-6) Training and Diagnostic visits |
| 8. | Improved variety (Horticulture) | Brinjal | Low Yield | FLD-10, Brinjal (GRB-6) Trainings, Advisory service |
| 9. | Improved variety (Horticulture) | Chili | Low Yield | FLD-10, Chilli (GVC-111) Trainings, Advisory service |
| 10. | INM (Horticulture) | Turmeric | Low yield & imbalanced nutrient supply | OFT-1 Trainings |
| 11. | INM (Horticulture) | Onion | Micro nutrient deficiency | OFT-1 Trainings |
| 12. | Improved variety (Horticulture) | Okra | Low yield | FLD-10, Okra (Guj. Okra -6) Trainings, Advisory service |
| 13. | Storage techniques | Groundnut | Seed loss while storage | OFT-1 Trainings |
| 14. | Natural Resource Management | Groundnut | Uncertainty of rainfall | OFT-1 Trainings |
| 15. | Drudgery Reduction | Farm Men/Women | Drudgery | FLD-15 Trainings |
| 16. | Drudgery Reduction | Farm Women | Drudgery | FLD-05 Training -05 |

| | | | | |
|---|---|---|---|---|
| 17. | Farm women | Farm Women | Farm women empowerment by training in value addition, handicrafts, and small scale enterprises | Vocational training programme was given in all the identified problem for 5 day duration |
| 18. | Natural Farming | Groundnut | Farmers do not adopt natural farming | OFT-1, Trainings-3 |
| 19. | Integrated Nutrient Management | Onion | Farmers do not use water-soluble fertilizer and Novel organic liquid | OFT-1, Field day-2 |
| 20. | Use of Nano Urea Fertilizer | Wheat | Less use of Nano fertilizer | OFT-1, Field day-3 |
| 21. | Improved variety of wheat | Soybean | Low yield | FLD-10 (Guj. Soybean-4 ), Training-2 |
| 22. | Improved the variety of Coriander | Coriander | Low yield | FLD-10 (Guj. Coriander-3), Trainings |

## 3. TECHNICAL PROGRAMME

### 3.1. A. Details of targeted mandatory activities by KVK 2024

| **OFT** | | **FLD** | |
|---|---|---|---|
| **(1)** | | **(2)** | |
| Number of OFTs | Number of Farmers | Number of FLDs | Number of Farmers |
| 09 | 38 | 20 | 520 |

| **Training** | | **Extension Activities** | |
|---|---|---|---|
| **(3)** | | **(4)** | |
| Number of Courses | Number of Participants | Number of activities | Number of participants |
| 87 | 5265 | 357 | 14335 |

| **Seed Production (Qtl.)** | **Planting material (Nos.)** | **Livestock, poultry strains and Fish seed prod. (No's)** | **Soil, water and plant Samples** |
|---|---|---|---|
| **(5)** | **(6)** | **(7)** | **(8)** |
| 326.35 | -- | -- | 120 |

**3.1. B. Operational areas details proposed during 2025**

| 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 | Proposed Intervention (OFT, FLD, Training, extension activity etc.)* |
|---|---|---|---|---|---|
| 1. | Groundnut, Cotton, Soybean, Sesame, Wheat, Chickpea, Onion, Mango Enterprises are dairy business | Heavy infestation of pink bollworm and sucking pest in cotton, Sesame leaf blight, Stem rot disease and white grub in Groundnut, Less area under Horticultural crops | Every village of this district is facing problem | Varudi | • *IPM, IDM and INM in major crops of this area,<br>• *Motivate the farmers for Natural Farming.<br>• *To create awareness for value addition.<br>• *Increase area under Horticulture crops.<br>*Entrepreneur development<br>Various OFT, FLD, trainings, extension activities were carried out |
| 2. | | | | Chakkargadh | |
| 3. | | | | Jarakhiya | |
| 4. | | | | Timbi | |
| 5. | | | | Uchaiya | |
| 6. | | | | Mota-zinzuda | |
| 7. | | | | Pithavadi | |
| 8. | | | | Gigasan | |
| 9. | | | | Pir-khijadiya | |
| 10. | | | | Rugnathpur | |
| 11. | | | | Arjansukh | |
| 12. | | | | Khajuri | |
| 13. | | | | Mota Kankot | |
| 14. | | | | Sapar | |
| 15. | | | | Pipaliya Nava | |

* Support with problem-cause and interventions diagram

**3.2. Technologies to be assessed**

A.1. Abstract on the number of technologies to be assessed in respect of crops

| **Thematic areas** | **Cereals** | **Oilseeds** | **Pulses** | **Commercial Crops** | **Vegetables** | **Fruits** | **Flower** | **Plantation crops** | **Tuber Crops** | **TOTAL** |
|---|---|---|---|---|---|---|---|---|---|---|
| Integrated Nutrient Management | 0 | | | 00 | 01 | | | | 01 | 2 |
| Varietal Evaluation | | | | | | | | | | 0 |
| Integrated Pest Management | | 01 | 01 | | | | | | | 2 |
| Integrated | | 01 | | | | | | | | 1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Crop Management | | | | | | | | | | |
| Integrated Disease Management | | | | | | | | | | 0 |
| Small Scale Income Generation Enterprises | | | | | | | | | | 0 |
| Weed Management | | | | | 0 | | | | | 0 |
| Resource Conservation Technology | | 01 | | | | 0 | | | | 1 |
| Farm Machineries | | | | 01 | | | | | | 1 |
| Integrated Farming System | | | | | | | | | | 0 |
| Seed / Plant production | | 01 | | | | | | | | 1 |
| Value addition | | | | | | | | | | 0 |
| Drudgery Reduction | | 01 | | | | | | | | 1 |
| Storage Technique | | | 00 | | | | | | | 0 |
| Mushroom cultivation | | | | | | | | | | 0 |
| **Total** | **5** | **1** | **1** | **1** | **0** | **0** | **0** | **1** | **5** | **09** |

**A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises- NIL**

**B. Details of On Farm Trials/ Technology Assessment proposed during 2025**

| 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 | Rainfed | Farmers do not adopt natural farming | Effect of natural farming practices on yield of groundnut. | 05 | T1- Foliar spray of Panchagavya @ 3% at 30, 45 and 60 DAS | Yield and BC ratio | 20.10 | As compared to treatments T2 and T3 production of groundnut higher in treatment T1 | Minimum cost of production and better yield with high income under natural farming | --- | ---- |
| | | | | | T2- Seed treatment: Bijamrut, Soil application: GhanJivamrut 2000kg/ha, Drenching of Jivamrut @ 5% at 30, 45 and 60 DAS, Plant protection: Agniastra, Brahmastra and Neemastra, as & when required | | 21.90 | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Wheat | Irrigated | Farmers use more nitrogen, So the price of nitrogen increases. Nano urea is the best option to reduce the cost. | Effect of nano urea on growth and yield of wheat | 05 | T1: (Farmers' practices)- Use only DAP and Urea in various dose (Farmers Practices) | Yield and BC ratio | 46.14 | As compared to treatments T1 and T2 production of wheat higher in treatment T3 | Minimum cost of production and better yield with high income | -- | -- |
| | | | | | T2: (Recommended Practice)- 120-60-60 NPK kg/ha (Recommended Practices) | | 47.40 | | | | |
| | | | | | T3: (Intervention) 60-60-60 NPK kg/ha+ Nano urea @ 4 ml/lit. at 1st spray at 30-35 DAS and 2nd spray 50-55 DAS (Intervention) Note –Basal dose as per fertilizer recommendation. Reduced only top-dressed Urea applied in 2-3 splits | | 48.78 | | | | |
| Onion | Irrigated | Farmers do not use water- | Effect of water-soluble | 05 | **T1:** (Farmers' practices) Use only DAP and Urea in various dose (Farmers Practices) | Yield and BC ratio | 399.6 | As compared to treatments T1 | Minimum cost of production and | -- | -- |
| | | | | | | | 402.6 | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | soluble fertilizer and Novel organic liquid | fertilizer (19-19-19 N-P-K) and Novel organic liquid nutrient on yield of onion | | **T2** : (Recommended Practice) 2.75-60-50-15 NPKS kg/ha (Recommended Practices)<br>**T3** : (Intervention ) 3.75% RDF (56-45-37.5- 15 kg N-P2O5-K2O-S/ha) + 1% foliar spray of (19-19-19% N-P-K) and 1% Novel organic liquid nutrient at 45 and 60 day after transplanting | | 406.6 | and T2 production of onion higher in treatment T3 | better yield with high income | | |
| Turmeric | Irrigated | Low yield and imbalanced nutrient supply | Integrated nutrient management in turmeric | | **T1-** Farmers' practices (no use of biofertilizers)<br>**T2**- Rhizome treatment with biofertilizers *Azospirillium*10g/l +PSB 10g/l +VAM 25g/l | Number of leaves per clump, Tillers per clump Net return (Rs/ha), Yield (kg/ha), B:C Ratio | Crop standing | | -- | | |
| Cotton | Rainfed | Development of | Management of Sucking | 03 | T1: Farmers' practices: Spraying | Yield (q/ha) | 20.8 | Production | Reduce the | -- | -- |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | resistance power of sucking pest against chemical pesticides and high residue | pests by Neemashtra in Bt. Cotton | | of chemical Pesticides (Flonicamid 50WG@ 7 gm/lit, imidacloprid17.5 SL @ 40 ml/10 lit at 30, 45, 60 DAS | No of sucking pest /leaf before spray | Jassid- 7.5 Whitefly- 8.3 Thrips- 14.40 Aphid- 10.50 | More or less similar to Farmers Practices, But cost of cultivation is lower in T2. So B:C Ratio is higher in T2. (But 25-30% reduction in production due to heavy Rainfall at the end of monsoon ) | cost of Pesticides. Results of **Neemashtra** More or less similar to pesticides. | | |
| | | | | | | No of sucking pest /leaf after spray | Jassid- 1.34 Whitefly- 1.40 Thrips-2.20 Aphid- 1.75 | | | | |
| | | | | | T2 Spraying of Neemashtra @ 30 ml/lit. water (3 lit/100 lit water) at 30,45,60 & 80 DAS | Yield (q/ha) | 20.00 | | | | |
| | | | | | | No of sucking pest /leaf before spray | Jassid- 7.35 Whitefly- 8.1 Thrips- 13.90 Aphid- 10.60 | | | | |
| | | | | | | No of sucking pest /leaf after spray | Jassid- 2.10 Whitefly- 2.60 Thrips-3.40 Aphid- 2.35 | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chickpea | Irrigated | Higher dose of chemicals increase the input cost and Higher Residue | Management of Pod borer in chickpea | 3 | T1: Farmers' practices: Spraying of Emamectin Benzoate 5 SG @ 10-15 gm / 10 lit or Chlorantraniliprole 18.5 % SC 8-10 ml/ 10 lit | Yield (q/ha) | 27.5 | As compare to T1 and T3 production higher in treatment T2 | Cost of Biopesticide is lower in T3 then the chemical pesticide, yield is lower but sutaible for organic Farmer. | -- | -- |
| | | | | | | No. of Larva per Plant /1mt. row length before spray | 2.80 | | | | |
| | | | | | | No. of Larva per Plant /1mt. row length after spray | 0.48 | | | | |
| | | | | | T2 : Spraying of Chlorantraniliprole 18.5 % SC 3.25 ml/10 lit + Neem oil 0.5% 50 ml/10 lit at ETL (0.75 larve/plant before flowering and 0.50 larve/plant after flowering) and second spray of the same at 20 days interval | Yield (q/ha) | 30.00 | | | | |
| | | | | | | No. of Larva per Plant /1mt. row length after spray | 2.95 | | | | |
| | | | | | | No. of Larva per Plant /1mt. row length after spray | 0.35 | | | | |
| | | | | | T3 : Spraying of HaNPV 250@ | Yield (q/ha) | 26.00 | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | LE/ha + Neem oil 0.5 % 50 ml/ lit at ETL and second and third spray of the same at 15 days interval | No. of Larva per Plant /1mt. row length before spray | 2.85 | | | | |
| | | | | | | No. of Larva per Plant /1mt. row length after spray | 0.70 | | | | |
| Soyabean | - | Dedicated soyabean grader is not used by farmers. | Soyabean grading with energy saving. | 5 | T1 : No grader (farmer practices) | New OFT | - | - | - | - | |
| | | | | | T2: Spiral grader | - | - | | | | |
| Groundnut | - | Crop growth and productivity of | Use of Hydrogel to obtain | 3 | T1- No Use of hydrogel to maintain rootzone | Yield (kg/ha) | 24.32 | Treatment T2 | -- | -- | -- |
| | | | | | | Yield | 26.33 | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | groundnut is decreased because of uncertainty of rainfall in Amreli district. | maximum groundnut production in Rainfed | | T2- Use of hydrogel to maintain rootzone moisture | (kg/ha) | | was found better than T1 soil moisture conservation | | | |
| Groundnut | -- | Hand shelling of ground nut involve health hazard, time consumption and money consumption | Drudgery reduction of farm women by using sitting type ground nut decorticator technology | 05 | T1- Hand shelling | Average of Output kg/hr | 4.81 | Sitting type ground nut decorticator was found very much effective in saving the time as its decortications | Ongoing | -- | -- |
| | | | | | | Average of Est. Energy Expenditure kj/min | 8.97 | | | | |
| | | | | | | Average of WHR beat/ min | 105.8 | | | | |
| | | | | | | Cardiac Cost of Work | 34.11 | | | | |
| | | | | | T2- Use of sitting type ground nut decorticator | Average of Output kg/hr | 12.00 | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | technology | Average of Est. Energy Expenditure kj/min | 3.52 | capacity was found 12.20 kg ground nuts/ hour where as in breaking by hand or teeth, farm women were able to break only 3.91 kg ground nuts per hour | | | |
| | | | | | | Average of WHR beat/ min | 78/80 | | | | |
| | | | | | | Cardiac Cost of Work | 12.03 | | | | |

### 3.3. Frontline Demonstrations

A. Details of FLDs to be organized (Oilseeds, pulses, cereals, cotton, commercial crops, horticulture crops, vegetables, spices and condiments, fodder crops, etc) 2025

| Sl. No. | Crop | Variety | Thematic area | Technology for demonstration | Critical inputs with cost (Rs.) | Season and year | Area (ha) | No. of farmers/ demon. | Parameters identified |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Cotton | Guj. Cotton Hybrid-24 (BT) | Variety Evaluation | Variety | Seed | Kharif | 4 | 10 | Yield |
| 2 | Soybean | Guj. Soybean-4 | Variety Evaluation | Variety | Seed | | 4 | 10 | Yield |
| 3 | Castor | GCH-9 | Variety Evaluation | Variety | Seed | | 4 | 10 | Yield |
| 4 | Sesame | GJT-5 | Varietal Evaluation | Variety | Seed | Summer 2025 | 4 | 10 | Yield |
| 5 | Okra | Guj. Okra 6 | Variety Evaluation | Variety | Seed | | 2 | 05 | Yield |
| 6 | Coriander | Guj. Coriander 3 | Varietal Evaluation | Variety | Seed | Rabi – 2025-26 | 4 | 10 | Yield |
| 7 | Seed dressing drum | - | Farm mechanization | Farm mechanization | Farm machinery | Kharif & Rabi 2024 | - | 05 | Reduction of Drudgery while using implement |
| 8 | Okra harvester | --- | Small tool | Small tool | Farm implement | | - | 05 | Reduction of Drudgery while using implement |
| 9 | Drumstick Harvest | -- | Farm implement | Farm implement | Farm implement | | - | 05 | Reduction of Drudgery while |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | er | | | | | | | | using implement |
| 10 | Vegetable Kit | -- | Varietal Evaluation | Variety | Vegetable Seeds | | - | 100 | Average production rate, rate (Rs./Kg.) and total income saving |

**B. Sponsored Demonstrations (CFLDs on O & P/ Others projects FLD, proposed for 2025)**

| S. No. | Crop | Variety | Season and Year | Area (ha) | No. of farmers |
|---|---|---|---|---|---|
| **1.** | **Agricultural Technology Information Centre (ATIC)** | | | | |
| i. | Groundnut | IPM (Metarhizium, Beauveria , Azadirechtinchloropyriphos | Kharif 2025 | 5.0 | 20 |
| ii. | Cotton | IPM (Cotton Inputs Beauveria , Azadirechtin, Pheromone trap) | | 5.0 | 20 |
| iii. | Gram | GG-5 or GG-7 | Rabi 2025 | 6.25 | 25 |
| iv | Wheat | GW-463 or GW- 451 | | 6.25 | 25 |
| | | | **Total** | **22.50** | **90** |
| **2.** | **Cluster base FLD of Rabi Pulses under NFSM** | | | | |
| i | Pigeon pea | GJP-1 | Rabi 2025 | 10 | 25 |
| ii | Gram | GJG-7 | | 20 | 50 |
| | | | **Total** | **30** | **75** |
| **3.** | **National Mission on Oilseeds and Oil Palm (NMOOP)** | | | | |
| i. | Groundnut | GJG- 32 | Kharif 2025 | 20 | 50 |
| | | | **Total** | **20** | **50** |

**B. Extension and Training activities under FLDs**

| S. No. | Activity | No. of activities | Month | Number of participants |
|---|---|---|---|---|
| 1 | Field days | 15 | During particulars Season | 200 |
| 2 | Farmers Training | 16 | | 350 |
| 3 | Media coverage | - | | - |
| 4 | Training for extension functionaries | 6 | | 150 |

**C. Details of FLD on Enterprises**

**a. Farm Implements**

| Name of the implement | Crop | Season and year | No. of farmers | Area (ha) | Critical inputs | Performance parameters / indicators |
|---|---|---|---|---|---|---|
| Cotton shredder | Cotton | 2025 | 10 | 4 | Cotton shredder | Field capacity |

**D. Livestock and Fisheries Enterprises**

| Enterprise | Breed | No. of farmers | No. of animals, poultry birds etc. | Critical inputs | Performance parameters / indicators |
|---|---|---|---|---|---|
| **NIL** | | | | | |

**E. Other Enterprises (Mushroom, Apiculture, Sericulture, Vermicompost, Value Addition, Women empowerment, etc)-**

| Enterprise | Technology demonstrated | No. of farmers | No. of units | Critical inputs | Performance parameters / indicators |
|---|---|---|---|---|---|
| **NIL** | | | | | |

**3.4. Trainings including on, off, vocational, RY and EF proposed for year 2025.**

**A. ON Campus**

| S. No. | Date | Title of training | Duration (Days) | No. of Participants | | |
|---|---|---|---|---|---|---|
| | | | | Male | Female | Total |
| **PF** | | | | | | |
| 1. | 20/01/25 | Household food security by kitchen gardening and nutrition gardening | 01 | 00 | 35 | 35 |
| 2. | 14/03/25 | Design and development of low/minimum cost diet | 01 | 00 | 35 | 35 |
| 3. | 27/03/25 | Nursery raising | 01 | 25 | 10 | 35 |
| 4. | 20/03/25 | Fertilizers recommendation based on soil analysis | 01 | 35 | 05 | 35 |
| 5. | 13/03/25 | Scientific cultivation of summer crops | 01 | 25 | 10 | 35 |
| 6. | 14/03/25 | Integrated approach for management to control of fall army worm in maize | 01 | 25 | 10 | 35 |
| 7. | 17/01/25 | Awareness regarding Natural farming | 01 | 20 | 15 | 35 |
| 8. | 19/02/25 | Operation and Maintenance of Micro-irrigation System. | 01 | 30 | 05 | 35 |
| 9. | 10/04/25 | Minimization of nutrient loss in processing | 01 | 00 | 35 | 35 |
| 10. | 30/04/25 | Cultivation of Fruit | 01 | 30 | 05 | 35 |
| 11. | 15/05/25 | Cow based natural organic fertilizers preparation | 01 | 35 | 00 | 35 |
| 12. | 15/04/25 | Importance of natural organic | 01 | 25 | 10 | 35 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | pesticides | | | | |
| 13. | 19/04/25 | Upgrade the knowledge of farmers about ICT | 01 | 25 | 10 | 35 |
| 14. | 01/06/25 | Soil & Water Conservation technologies for Agricultural Lands. | 01 | 20 | 15 | 35 |
| 15. | 10/07/25 | Women and Child Care | 01 | 00 | 35 | 35 |
| 16. | 15/07/25 | Value addition of millet | 01 | 15 | 20 | 35 |
| 17. | 01/08/25 | Preparation of Jivamrut and Bijamrut | 01 | 28 | 07 | 35 |
| 18. | 25/08/25 | Use and Importance of Bio fertilizers | 01 | 00 | 35 | 35 |
| 19. | 30/08/25 | Integrated Disease Management of *rabi* crops | 01 | 17 | 18 | 35 |
| 20. | 10/09/25 | Upgrade the knowledge about new varieties of *rabi* crops and its cultivation practices | 01 | 20 | 15 | 35 |
| 21. | 12/09/25 | Rainwater harvesting & groundwater recharge methods | 01 | 30 | 05 | 35 |
| 22. | 22/09/25 | Clean milk production | 01 | 30 | 05 | 35 |
| 23. | 20/10/25 | Value addition | 01 | 10 | 25 | 35 |
| 24. | 27/10/25 | Location specific drudgery reduction technologies | 01 | 00 | 35 | 35 |
| 25. | 07/10/25 | Scientific cultivation of Rabi crops | 01 | 30 | 05 | 35 |
| 26. | 03/11/25 | Botanical Pesticides | 01 | 17 | 18 | 35 |
| 27. | 10/11/25 | Entrepreneurship development | 01 | 00 | 35 | 35 |
| 28. | 08/12/25 | How to Reclaim Saline Soils | 01 | 17 | 18 | 35 |

**B. Off campus**

| S. No. | Date | Title of training | Duration (Days) | No. of Participants | | |
|---|---|---|---|---|---|---|
| | | | | Male | Female | Total |
| **PF** | | | | | | |
| 1. | 21/02/25 | Household food security by kitchen gardening and nutrition gardening | 01 | 00 | 45 | 45 |
| 2. | 24/02/25 | Value addition of fruits and vegetables | 01 | 00 | 45 | 45 |
| 3. | 02/03/25 | Soil and water analysis | 01 | 36 | 09 | 45 |
| 4. | 21/01/25 | Integrated Nutrient Management in summer crops | 01 | 32 | 13 | 45 |
| 5. | 02/03/25 | Advance techniques of pest management | 01 | 30 | 15 | 45 |
| 6. | 06/03/25 | Upgrade knowledge on seed treatment | 01 | 35 | 10 | 45 |
| 7. | 24/02/25 | Natural farming | 01 | 00 | 45 | 45 |
| 8. | 02/03/25 | Upgrade knowledge on seed treatment | 01 | 36 | 09 | 45 |
| 9. | 21/01/25 | Natural farming | 01 | 32 | 13 | 45 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 10. | 02/03/25 | Installation and maintenance of micro irrigation systems | 01 | 30 | 15 | 45 |
| 11. | 12/04/25 | Design and development of low/minimum cost diet | 01 | 00 | 45 | 45 |
| 12. | 20/04/25 | Location specific drudgery reduction technologies | 01 | 10 | 35 | 45 |
| 13. | 20/05/24 | Preparation procedure of liquid natural organic fertilizer | 01 | 32 | 13 | 45 |
| 14. | 30/05/25 | Nutrient Management in Natural Farming | 01 | 37 | 08 | 45 |
| 15. | 06/06/25 | Method demonstration of organic product | 01 | 35 | 10 | 45 |
| 16. | 14/06/25 | Market intelligence | 01 | 35 | 10 | 45 |
| 17. | 28/06/25 | How to prepare Farm Pond/Percolation tank | 01 | 37 | 08 | 45 |
| 18. | 02/07/25 | Post-harvest management of flower crops | 01 | 37 | 08 | 45 |
| 19. | 06/07/25 | Value addition of millet | 01 | 00 | 45 | 45 |
| 20. | 12/07/25 | Women and child care | 01 | 10 | 35 | 45 |
| 21. | 30/07/25 | Package of practices of rabi crops | 01 | 36 | 09 | 45 |
| 22. | 25/08/25 | Natural farming | 01 | 32 | 13 | 45 |
| 23. | 15/09/25 | Bio -Pesticides | 01 | 37 | 08 | 45 |
| 24. | 19/08/25 | Awareness about FPO & it's formation | 01 | 35 | 10 | 45 |
| 25. | 16/09/25 | Efficient utilization of irrigation water | 01 | 35 | 10 | 45 |
| 26. | 09/09/25 | Disease Management | 01 | 37 | 08 | 45 |
| 27. | 06/10/25 | Design and development of low/minimum cost diet | 01 | 00 | 45 | 45 |
| 28. | 10/11/25 | Value addition in flower crops | 01 | 00 | 45 | 45 |
| 29. | 23/12/25 | Women empowerment | 01 | 36 | 09 | 45 |
| 30. | 07/11/25 | INM in rabi crops | 01 | 32 | 13 | 45 |
| 31. | 26/10/25 | Sucking pest management in Rabi crops | 01 | 37 | 08 | 45 |
| 32. | 14/12/25 | Entrepreneurship Development | 01 | 35 | 10 | 45 |
| 33. | 30/12/25 | Post Harvest Technology | 01 | 35 | 10 | 45 |
| 34. | 11/12/25 | Renewable energy source utilization on farm | 01 | 37 | 08 | 45 |

**C. Rural Youth**

| S. No. | Date | Title of training | Venue On/Off | Duration (Days) | No. of Participants | | |
|---|---|---|---|---|---|---|---|
| | | | | | Male | Female | Total |
| **RY** | | | | | | | |
| 1. | 01/03/25 | Natural Farming | On/Off | 01 | 20 | 05 | 25 |
| 2. | 28/03/25 | Plant Protection Appliances/ | | 01 | 20 | 05 | 25 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Equipments and Natural Farming | | | | | |
| 3. | 13/06/25 | Value addition (Agriculture Engineering) | | 01 | 20 | 05 | 25 |
| 4. | 11/08/25 | Vermi -composting | | 01 | 20 | 05 | 25 |
| 5. | 24/04/25 | Value addition of millet | | 01 | 00 | 25 | 25 |
| 6. | 17/08/25 | Cultivation of flower crops & their value addition | | 01 | 15 | 10 | 25 |

**D. In Service Training:**

| S. No. | Date | Title of training | Venue On/Off | Duration (Days) | No. of Participants | | |
|---|---|---|---|---|---|---|---|
| | | | | | Male | Female | Total |
| **RY** | | | | | | | |
| 1. | 21/04/25 | Income generation activities | On/Off | 01 | 25 | 15 | 40 |

**E. Vocational Training:**

| S. N. | Title of training | No. of training | Duration (Days) | No of Participants | Type of Participant |
|---|---|---|---|---|---|
| 1 | Value addition of fruit products | 01 | 04 | 35 | FW & RY |
| 2 | Bee keeping | 01 | 04 | 80 | |

**F. Sponsored/ Collaborative Training:**

| S.N. | Title of training | No. of Training | No. of Participant | Type of participant |
|---|---|---|---|---|
| 1 | Integrated management of pink bollworm in cotton | 1 | 45 | PF |
| 2 | Role of Trichoderma, Beauveria, bossianaand metarhiumanisoplie and its uses | 1 | 55 | PF |
| 3 | Scientific production of kharif crops | 1 | 60 | PF |
| 4 | Use of mass media | 1 | 35 | PF |
| 5 | Scientific cultivation of cotton | 1 | 35 | PF |
| 6 | Entrepreneurship development | 1 | 35 | FW |
| 7 | Use of soil health card | 1 | 35 | PF |
| 8 | Value addition millets | 05 | 285 | FW/PF |
| 9 | Micro Irrigation System Maintenance | 1 | 45 | PF |
| 10 | Value addition of fruits and vegetables | 7 | 245 | FW |
| 11 | Natural Farming | 4 | 125 | PF/FW |

| | | | | |
|---|---|---|---|---|
| 12 | Value addition of fruits | 05 | 125 | FW |
| 13 | Value addition of vegetable | 05 | 125 | FW |
| | **Total** | **34** | **1250** | |

**3.5. Extension Activities (including activities of FLD programmes )**

| S. No. | Major Extension Activities planned | No. of activities | Proposed date /week | Venue (On / Off / Online) | Expected No. of participants |
|---|---|---|---|---|---|
| **1.** | Field Day and field visit | 30 | **Year - 2025** **(Whole year)** | Off | 496 |
| **2.** | KisanGosthi | 05 | | On and Off | 07 |
| **3.** | Radio talk | 70 | | On and Off | --- |
| **4.** | TV show | As maximum and required | | On and Off | ---- |
| **5.** | Khedutshibir | 10 | | On and Off | 129 |
| **6.** | News paper coverage | As maximum and required | | -- | --- |
| **7.** | Diagnostic service | As maximum and required | | Off | 125 |
| **8.** | Advisory service | As maximum and required | | Off | --- |
| **9.** | Popular articles | 09 | | Online | 1144 |
| **10.** | Extension Literature | 10 | | ---- | ---- |
| **11.** | Group discussions | 09 | | On and Off | 236 |
| **12.** | Film Show | 10 | | On and Off | 189 |
| **13.** | Scientists' visit to farmers field | 50 | | On and Off | ---- |
| **14.** | Farmers visit to KVK | 25 | | Off | 764 |
| **15.** | Ex-trainees Sammelan | 02 | | On | 588 |
| **16.** | Farmers' seminar/workshop | 02 | | On & Off | 184 |
| **17.** | Celebration of important and special days | 08 | | On & Off | 226 |
| **18.** | Exposure visits | 05 | | On & Off | 1275 |
| **19.** | Others (pl.specify) Lecture Delivered | 125 | | On & Off | 231 |

**3.6. Target for Production and supply of Technological products**

**A. SEED MATERIALS**

| S. No. | Name of crop | Season | Area (ha) | Variety | Type of Produce |
|---|---|---|---|---|---|
| 1 | Groundnut | Kharif (2025) | 12 | GJG-32/35 | Breeder/TF |
| 2 | Sesame | Summer (2025) | 1.0 | GT-3 | Breeder |
| 3 | Wheat | Rabi (2025-26) | 1.0 | GW-451 | TF |
| 4 | Gram | Rabi (2025-26) | 1.0 | GG-7 | BREEDER |

**B. PLANTING MATERIALS**

| Sl. No. | Crop | Variety | Quantity (Nos.) |
|---|---|---|---|
| **NIL** | | | |

**C. Bio-products**

| Sl. No. | Product Name | Species | Quantity | |
|---|---|---|---|---|
| | | | Kg | Lit |
| NIL | | | | |

**D. LIVESTOCK-**

| Sl. No. | Type | Breed | Quantity (No.) |
|---|---|---|---|
| CATTLE | NIL | | |
| GOAT | | | |
| SHEEP | | | |
| POULTRY | | | |
| PIGS | | | |
| FISHERIES | | | |
| ANY OTHER (Pl. specify) | | | |

**4. Literature to be Developed/Published**

**A. Literature developed/published**

| S. No. | Topic | Number |
|---|---|---|
| 1 | Research papers | 07 |
| 2 | Technical reports | 07 |
| 3 | News letters | 04 |
| 4 | Training manuals | 00 |
| 5 | Popular articles | 20 |
| 6 | Extension literature | 05 |
| 7 | E-publication | 10 |
| 8 | Any other (Please specify) | 00 |
| | **Total** | **53** |

**B. Details of Electronic Media to be produced**

| S. No. | Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings | Title of the programme | Number |
|---|---|---|---|
| 1. | Video clipping | Special Project on Cotton | 01 |

**C. Details of social media platforms to be started / continued**

| S. No. | Type of social media platform | Title / Purpose | Number |
|---|---|---|---|
| 1 | YouTube Channel | Junagadh Agricultural University | 1 |
| 2 | Facebook page | Krishi Vigyan Kendra, Amreli | 1 |
| 3 | Mobile Apps | 0 | 0 |
| 4 | Whats App groups | To send information to farmers | **25** |
| 5 | Twitter Account | Krishi Vigyan Kendra, Amreli | 1 |
| 6 | Any other (Pl. Specify) | 0 | 0 |

**D. Success stories/Case studies identified for development as a case (Based on previous years success)**

| S. No. | Title of success story / case study identified | Proposed month for case/story to be prepared/ developed |
|---|---|---|
| 1. | Natural farming | April 2025, December 2025 |
| 2. | Value addition | |

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

**A. Practicing Farmers**

a) Interview schedule

b) Farmer group discussion

c) Observation

**B. Rural Youth**

a) Interview schedule

b) Focus group

c**)** Difficulty analysis

**C. In-service personnel**

a) Interview schedule

b) Focus group

c**)** Difficulty analysis

**5.2. Indicate the methodology for identifying OFTs/FLDs**

**For OFT:**

i) PRA
ii) Problem identified from Matrix
iii) Field level observations
iv) Farmer group discussions
v) Others if any

**For FLD:**

i) New variety/technology

ii) Poor yield at farmer's level
iii) Existing cropping system
iv) Others if any

**5.3. Field activities**

i. Name of New adopted villages identified/adopted with block name **(2025-26 to 2029-30)**

| | | |
|---|---|---|
| 1 | Varudi | Amreli |
| 2 | Chakkargadh | Amreli |
| 3 | Jarakhiya | Lathi |
| 4 | Timbi | Jafarabad |
| 5 | Uchaiya | Rajula |
| 6 | Mota-zinzuda | Savarkundla |
| 7 | Pithavadi | Savarkundla |
| 8 | Gigasan | Dhari |
| 9 | Pir-khijadiya | Babra |
| 10 | Rugnathpur | Khambha |
| 11 | Arjansukh | Kunkavav |
| 12 | Khajuri | Kunkavav |
| 13 | Mota Kankot | Liliya |
| 14 | Sapar | Bagasara |
| 15 | Pipaliya Nava | Bagasara |

ii. No. of farm families selected per village: 450
iii. No. of survey/PRA conducted: 00
iv. No. of technologies taken to the adopted villages: 12
v. Name of the technologies found suitable by the farmers of the adopted villages:

- New varieties,
- Vermi compost,
- Value addition & Marketing,
- IPM,
- IDM,
- INM,

- IFS,
- Farm machinery
- Mulching
- Resource conservation
- ICT
- Natural Farming

vi.- Impact (production, income, employment, area/technological– horizontal/vertical):**NIL**

vii.- Constraints if any in the continued application of these improved technologies- **Nil**

## 6. LINKAGES

### 6.1. Functional linkage with different organizations

| Sl.No. | Name of organization | Nature of Linkage |
|---|---|---|
| 1. | Dy. Director of Agriculture. | Farmers Training, Diagnostic services |
| 2. | Dy. Director of Agril. Extension (FTC) | Resource person in Lectures |
| 3. | Dy. Director of Horticulture | Resource person in Lectures |
| 4. | Dy. Director of Animal Husbandry | Sponsored training |
| 5. | Dy. Director of Soil Conservation | Resource person in Lectures |
| 6. | Dy. Director of Social Forestry | Resource person in Lectures |
| 7. | Amreli Jilla Madhya sahakari bank | Resource person in Lectures |
| 8. | Milk Co-Operative Society | Resource person in Lectures |
| 9. | State Bank of India | Resource person in Lectures |
| 10. | National Bank for Agriculture & Rural Development (NABARD) | Resource person in Lectures |
| 11. | NHRDF | Sponsored Training, Resource person in Lectures |
| 12. | Doordarshan Kendra | Media coverage |
| 13. | All India Radio | Radio talk |
| 14. | District Rural Development Agency | Sponsored Training, Resource person in Lectures |
| 15. | ATMA | Sponsored Training, Resource person in Lectures, meeting |
| 16. | Mahindra & Mahindra Co. Ltd. | Sponsored Training, Resource person in Lectures |
| 17. | SSK NGO | MOu, Sponsored Training, Resource person in Lectures |

### 6.2. Details of linkage with ATMA

| S. No. | Programme | Nature of linkage |
|---|---|---|
| 1 | All the extension activities of district, Amreli | Sponsored Training, Demonstration , Resource person in Lectures, meeting |

### 6.3. Give details of programmes under National Horticultural Mission

| S. No. | Programme | Nature of linkage |
|---|---|---|
| 1 | Farmers training | As a resource person |

### 6.4. Nature of linkage with National Fisheries Development Board

| S. No. | Programme | Nature of linkage |
|---|---|---|
| **1** | Farmers training | As a resource person |

**6.5. Additional Activities planned including sponsored projects (NARI/DAESI/DAMU/DFI/PKVY,Skill Trainings, etc.) / schemes during 2025, if involved.**

**6.5.1. Details of activities planned under sponsored project**

| S. No. | Programme | Name of the village | FLDs, Trainings, Filed days, Field Visit | No. of families to be covered |
|---|---|---|---|---|
| 1. | Agriculture technology Information centre | Adopted villages of KVK, Amreli | FLDs, Trainings, Filed days, Field Visit | 90 |
| 2. | Natural Farming | | Demonstration, Trainings, Filed days, Field Visit | 1035 |
| 3. | ARYA | | Demonstration, Trainings, Field Visit | --- |
| 4. | Cluster base FLD of Rabi Pulses under NFSM | | FLD, Trainings, Field day, Field visit | 75 |
| 5. | National Mission on Oilseeds and Oil Palm (NMOOP) | | FLD, Trainings, Field day, Field visit | 150 |
| 6. | Special project on Cotton | | FLDs, Trainings, Filed days, Field Visit | 113 |
| 7. | MGMG | 10 villages of Amreli district | FLDs, Trainings, Filed days, Field Visit | --- |
| 8. | SHS (Swacchta Hi Sewa) | Adopted villages of KVK, Amreli | Trainings, Awareness Programme etc. | 15 |

**7. Convergence with other agencies and line departments in the district:**

| S. No. | Name of the department / Agency | Type of convergence | Area (ha) / No. of farmers to be benefited |
|---|---|---|---|
| **1** | **ATMA** | Resource person | - |

**8. Innovator Farmer's Meet 2025**

| Sl.No. | Particulars | Details | Expected No. of participants |
|---|---|---|---|
| **1** | **Farm innovators meet planned** | **----** | **---** |

**9. Utilization of hostel facilities-**

| S. No. | Month | No. of days to be utilized |
|---|---|---|
| **NIL** | | |

**10. Details of online activities planned (If any)**

| S. No. | Type of activities | No. of programmes | Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live, etc.) | No. of participants to be covered |
|---|---|---|---|---|
| 1 | Farmers trainings | 5 | Video Conferencing | 110 |
| 2 | Farmers scientist's interaction programme | 3 | Face book Live | 150 |
| 3 | Farmers seminars | 1 | Video Conferencing | 120 |
| 4 | Expert lectures | 8 | Video Conferencing | 203 |
| 5 | Any other (Pl. specify) | 0 | 0 | 00 |

**11. Details of collaborative applied research projects planned if any-**

| S. No. | Name of the research project | Funding agency | Collaborating organizations | Year of commencement | Major activities planned |
|---|---|---|---|---|---|
| **NIL** | | | | | |

**12. Details of Budget Estimate (2025-26) based on proposed action plan**

| S. No. | Particulars | Proposed BE 2025-26 (Rs.) |
|---|---|---|
| **1** | **Recurring Contingencies** | |
| 1.1 | **Pay & Allowances** | **160,00,000** |
| 1.2 | **Traveling allowances** | **2,00,000** |
| 1.3 | **Contingencies** | |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | |
| *B* | POL, repair of vehicles, tractor and equipments | |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.150/day/trainee be maintained) | |
| *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 Recurring Contingencies** | **15,00,000** |
| **2** | **Non-Recurring Contingencies** | |

| | | |
|---|---|---|
| 2.1 | **Works** | |
| 2.2 | **Equipments including SWTL & Furniture** | |
| 2.3 | **Vehicle** (Four-wheeler/Two-wheeler, please specify) | |
| 2.4 | **Library** (Purchase of assets like books & journals) | |
| | **TOTAL Non-Recurring Contingencies** | |
| **3** | **REVOLVING FUND** | |
| | **GRAND TOTAL** | **17700000** |