# SCIENTIFIC ADVISORY COMMITTEE
## KRISHI VIGYAN KENDRA
## NAU, WAGHAI (DANGS), GUJARAT

| | | |
|---|---|---|
| 1. | Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari | Chairman |
| 2. | Director, ICAR-ATARI, Puna | Member |
| 3. | Dr. C. K. Timbadia, I/c. Director of Extension Education, NAU, Navsari | ,, |
| 4. | Dr. T. R. Ahlawat I/c. Director of Research, NAU, Navsari | ,, |
| 5. | Dr. H. E. Patil, Associate Research Scientist, Main Hill Millet Research Station, NAU, Waghai, Dangs | ,, |
| 6. | Dr. A. P. Patel (Associate Professor) Agronomy, College of Agriculture, NAU, Waghai, Dangs | ,, |
| 7. | Dr. S. N. Saravaiya, Professor & Head, Department of vegetable Science, ACHF, NAU, Navsari | ,, |
| 8. | Project Director, ATMA, Ahwa, Dangs | ,, |
| 9. | Deputy General Manager, NABARD, Ahwa, Dangs | ,, |
| 10. | District Agriculture Officer, Ahwa, Dangs | ,, |
| 11. | Assistant Director of Horticulture, Ahwa, Dangs | ,, |
| 12. | Area manager, AKRSPI Ahwa, Dangs | ,, |
| 13. | District Animal Husbandry Officer, Ahwa, Dangs | ,, |
| 14. | Shri Bendubhai Mahadubhai Gaikwad, (Progressive Farmer), Nadagkhadi, Ta.- Waghai, Dangs | ,, |
| 15. | Smt. Baliben Laljibhai Gamit, (Progressive Women Farmer), Bhenskatri, Ta.- Waghai, Dangs | ,, |
| 16. | Shri Kashirambhai G. Birari, (Agri Enterpreneur), Jamlapada, Ta.-Waghai, Dangs | ,, |
| 17. | Smt. Bhartiben Chintubhai Patel, (Chair person of Women SHG), Waghai, Dangs | ,, |
| 18. | Senior Scientist & Head, KVK, NAU, Waghai, Dangs | Member Secretary |

**Invitee members**

| | | |
|---|---|---|
| 19. | Dr. J.J.Pastagia, I/c. Principal, College of Agriculture, NAU, Waghai, Dangs | Invitee |
| 20. | Dr. Mahaveer Choudhari, I/c. Principal, Agril. Polytechnic, NAU, Waghai, Dangs | Invitee |
| 21. | Chairman, Khapri Co. Mandli, Waghai, Dangs | Invitee |

**Note:** All Scientist, Programme Assistant & farm manager of KVK is active participants as special invitees.

## 21.1 Approval of the minutes of 20th Scientific Advisory Committee meeting

The action taken report on the minutes of 20th SAC meeting held on 14-12-2020 at KVK, Waghai are as follow:

| | | |
|---|---|---|
| 20.2.1 | Awareness programme on plant protection in French bean. | 2 Training conducted about awareness programme on plant protection in French bean.<br>1 Method demonstration was organised on 07-12-2021.<br>1 Farmers scientist interaction was organised on 07-12-2021.<br>Lecture was delivered in the Technology week dates on 16-11-2021.<br>(Lecture on awareness on plant protection measure in french bean) |
| 20.2.2 | Promotion of Kitchen Garden. | We had conducted 4 on – off Sponsored training and other extension activities like 4 lecture delivered, 1 field visit, 4 FLD visit, etc. about Kitchen Garden. |
| 20.2.3 | Motivation for improved breed of back yard poultry. | We had conducted 1 training and other extension activities like 3 FLD visit, 2 scientist visit to farmers field, 3 method demonstration etc. about back yard poultry. |
| 20.2.4 | Nutritional management in cereals and pulses crop. | We had conducted 5 on – off campus trainings, 2 Sponsored training, 2 Vocational training and other extension activities like 5 lecture delivered, 14 field visit, 6 FLD visit, 1 Field day, 1 kishan gosthi etc. about nutritional management. |
| 20.2.5 | Check the possibility of Potato cultivation in the Dang district with the help of horticulture department of Dang. | OFT conducted about check the possibility of Potato cultivation in the Dang district with the help of horticulture department of Dang. |
| 20.2.6 | Increase awareness about Dragon fruit. | Conducted the demonstration at KVK, Waghai at Rajendrapur farm. |
| 20.2.7 | Remove the Assistant Director (Soil Conservation), GLDC, Ahwa, Dangs from the list of SAC members SAC meeting of KVK, Waghai, Dangs. | Suggestion incorporated and We had include new member that is Area manager of Aga Khan Rural Support Programme (India), Dangs. |

## 20.2: Review of work done during the period of December- 2020 to December-2021

### Thrust area

Dangs is basically a forest dominated rainfed area with high rainfall. It has hilly and undulating terrain, scattered plots with negligible area under irrigation. The infrastructure facilities like road transports, marketing *etc*. are very poor. Besides, most of the population is tribal which are economically poor.

**The Major thrust areas are as under:**

- Increase productivity of the major field crops, fruits and vegetables by introduction of new technologies
- Increasing milk production by dissemination of latest technology
- Management of Natural Resources (Soil and water conservation)
- Empowerment of tribal women for sustaining livelihood
- Popularization of suitable farming system and Value addition
- Protected cultivation and high-tech agriculture
- Integrated farming system
- Farm mechanization
- Introduction of new crops like sunflower, bajra, strawberry, pineapple, tuber crops, *etc*.
- Decrease cost of cultivation by use of available resource
- Preparation Bio-pesticide and fertilizer in home base
- Adopted mulching practices for decalcify of evaporation
- Use turmeric powder in small injury in livestock
- Feeding drumstick in milch animal

### A. Training achievements: (December-2020 to December-2021):

### 1. On campus trainings:

| Discipline | No. of courses | No. of Participants | | |
|---|---|---|---|---|
| | | Male | Female | Total |
| Crop Production | 9 | 201 | 28 | 229 |
| Horticulture | 7 | 155 | 53 | 208 |
| Plant Protection | 6 | 102 | 31 | 133 |
| Animal Science | 6 | 60 | 110 | 170 |
| Home Science | 2 | 4 | 49 | 53 |
| Extension Education | 6 | 137 | 62 | 202 |
| **Total** | **36** | **659** | **333** | **992** |

### 2. Off campus trainings:

| Discipline | No. of courses | No. of Participants | | |
|---|---|---|---|---|
| | | Male | Female | Total |
| Crop Production | 3 | 59 | 31 | 90 |
| Horticulture | 6 | 110 | 57 | 167 |
| Plant Protection | 3 | 60 | 8 | 68 |
| Animal Science | 6 | 66 | 101 | 167 |
| Home Science | 0 | 0 | 0 | 0 |
| Extension Education | 5 | 103 | 47 | 150 |
| **Total** | **23** | **398** | **244** | **642** |

### 3. Sponsored trainings (on & off campus):

| Discipline | No. of Courses | No. of participants | | |
|---|---|---|---|---|
| | | Male | Female | Total |
| Crop Production | 14 | 187 | 328 | 515 |
| Horticulture | 15 | 278 | 306 | 584 |
| Plant Protection | 13 | 305 | 297 | 602 |
| Animal Science | 12 | 266 | 221 | 487 |
| Home Science | 6 | 96 | 129 | 225 |
| Extension Education | 12 | 117 | 322 | 439 |
| **Total** | **72** | **1249** | **1603** | **2852** |

**Sponsored:** ATMA, FTC, DWDA, AKRSP, Sevadham trust, Dept. of Agriculture, Horticulture, Animal Husbandry *etc.*

### 4. Vocational training programmes for Rural Youth:

| Discipline | Period | Training title | Identified thrust area | No of participants | | |
|---|---|---|---|---|---|---|
| | | | | Male | Female | Total |
| Crop Production | 02-01-2021 | Azolla Cutivation | Bhisya | 0 | 53 | 53 |
| Crop Production | 12,13,15,16,17-03-2021 | Preparation of *Panchagavya* and *Jeevamrut* | KVK, Waghai | 6 | 15 | 21 |
| Crop Production | 18,20,21,22,23-12-2021 | Preparation of Vermicompost | Vankan | 13 | 8 | 21 |
| Horticulture | 6,7,8,11,13/12/2021 | Seedling preparation in Plug Tray | Lahandabhas | 19 | 2 | 21 |
| Plant Protection | 02,06,07,08 & 09-12-2021 | Preparation of botanicals biopesticides | Chinchod | 0 | 20 | 20 |
| Animal Science | 15 to 21-02-2021 | Scientific poultry farming | KVK, Waghai | 2 | 22 | 24 |
| Animal Science | 20 to 24/12/2021 | Scientific poultry farming | KVK, Waghai | 15 | 15 | 30 |
| **Total** | | **7** | | **55** | **135** | **190** |

### 5. In-service trainings:

| Discipline | Title | Period | No. of Participants | | |
|---|---|---|---|---|---|
| | | | Male | Female | Total |
| Crop Production/ Horticulture/ Plant Protection | Recent advances in Agriculture, Horticulture and Plant protection | 12-08-2021 | 23 | 6 | 29 |
| Horticulture | Organic kitchen garden | 04-12-2020 | 2 | 21 | 23 |
| Animal Science | Prevention & Control of Zoonotic diseases | 26-08-2021 | 15 | 7 | 22 |
| Extension Education | Important of organic farming | 04-10-2021 | 50 | 1 | 51 |
| **Total** | | **4** | **90** | **35** | **125** |

| Grand Total of Trainings (1 to 5) | No. of Courses | Male | Female | Total |
|---|---|---|---|---|
| | **142** | **2451** | **2350** | **4801** |

## B. Frontline Demonstrations:

**Performance of Frontline demonstrations (*Rabi*, Summer-2020)**

**I. 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 | | | | | | | | | | |
| **Crop Production** | | | | | | | | | | | | | | | | | | |
| Pigeon pea | ICM | New variety | GT 105 | 25 | 5 | 15.02 | 12.45 | 13.64 | 10.54 | 29.32 | 20000 | 54520 | 34520 | 2.73 | 18000 | 42160 | 24160 | 2.34 |
| Gram | ICM | New variety | GG 5 | 25 | 5 | 11.90 | 10.50 | 11.34 | 8.40 | 35.00 | 16000 | 52808 | 36808 | 3.30 | 13800 | 38640 | 24840 | 2.80 |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

**II. FLDs on Other crops (*Kharif* 2021):**

| Category & Crop | Thematic Area | Name of the technology | Variety/ Input | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Change 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) |
| | | | | | | H | L | Av. | | | | | | | | | | |
| **Crop Production** | | | | | | | | | | | | | | | | | | |
| Paddy | ICM | New variety | GR 17 | 25 | 5 | 33.40 | 30.05 | 32.13 | 26.84 | 19.71 | 20000 | 57834 | 37834 | 2.89 | 25000 | 48312 | 23312 | 1.93 |
| Finger millet | ICM | New variety | GNN 6 | 25 | 5 | 15.05 | 13.65 | 14.44 | 10.67 | 35.33 | 12000 | 43320 | 31320 | 3.61 | 10000 | 29876 | 19876 | 2.99 |
| Little millet | ICM | New variety | GV 3 | 25 | 5 | 13.50 | 12.35 | 13.02 | 9.72 | 33.95 | 10000 | 37758 | 27758 | 3.78 | 8000 | 24300 | 16300 | 3.04 |
| Nutri cereal crop (Little millet) | INM | New variety | Local | 10 | 1 | 12.40 | 9.60 | 10.79 | 7.65 | 41.05 | 10000 | 23738 | 13738 | 2.37 | 8000 | 16830 | 8830 | 2.10 |
| **Horticultural pulse crops (2020-21)** | | | | | | | | | | | | | | | | | | |
| Indian bean | ICM | New variety | GNIB 22 | 25 | 2.5 | 42 | 35 | 36.64 | 26.44 | 38.98 | 41320 | 109920 | 68600 | 2.66 | 44040 | 97828 | 53788 | 2.22 |

| Category & Crop | Thematic Area | Name of the technology | Variety/ Input | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Change 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) |
| | | | | | | H | L | Av. | | | | | | | | | | |
| **Horticultural other crops (2020-21)** | | | | | | | | | | | | | | | | | | |
| Aloevera | ICM | New variety | INGR 13043 | 10 | 0.1 | 407000 Nos. Daughter plant | 296000 Nos. Daughter plant | 344100 Nos. Daughter plant | - | - | 355000 | 688200 | 333200 | 1.93 | - | - | - | - |
| Mango | ICM | New variety | Kesar | 20 | 1.0 | Survival rate of graft on farmers field is 80-85 % | | | | | | | | | | | | |
| **Plant Protection (2020-21)** | | | | | | | | | | | | | | | | | | |
| Gram | IDM | *Trichoderma* | Local varieties | 25 | 5 | 11.6 | 10.5 | 11.16 | 9.27 | 20.46 | 15000 | 50252.4 | 35252.4 | 3.5 | 14000 | 41727.6 | 27727.6 | 2.98 |
| Cucurbitacious crop | IPM | Cue Lure trap | Local varieties | 20 | 2 | 91 | 87 | 88.4 | 69.85 | 26.61 | 50000 | 185640 | 135640 | 3.71 | 48560 | 146685 | 98125 | 3.02 |
| Okra | IPM | Pheromone trap & Yellow sticky trap | Local varieties | 25 | 5 | 98 | 92 | 94.92 | 84.4 | 12.49 | 41000 | 175602 | 134602 | 4.28 | 39500 | 156140 | 116640 | 3.95 |
| **Plant Protection (2021)** | | | | | | | | | | | | | | | | | | |
| Paddy | IPM | Pheromone trap | Mixed | 25 | 5 | 30.5 | 27 | 28.3 | 26.10 | 8.77 | 27476 | 50940 | 23464 | 1.85 | 26346 | 46994 | 20648 | 1.78 |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

**III. FLD on Livestock (Rabi, Summer-2020-21):**

| Category | Thematic area | Name of the technology demonstrated | No. of Farmer | No. of Units (Animal/ Poultry/ Birds, etc) | Major parameters lit/cow/day | | % change in major parameter | Other parameter | | Economics of demonstration* (Rs.) | | | | Economics of check (Rs.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | BCR** (R/C) | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| **Dairy cow (KVK regular)** | | | | | | | | | | | | | | | | | |
| 1. | Fodder management | Introduction of new variety of Fodder Sorghum " CSV 21 F" | 20 | 20 | 327 (q/ha) | 270 | 21.11 | - | - | 26000 | 81750 | 55750 | 3.14 | 29000 | 67500 | 38500 | 2.32 |
| 2. | Nutrition management | Bypass fat | 30 | 30 | 9 | 7.5 | 20.00 | - | - | 4000 | 11150 | 7150 | 2.78 | 3350 | 8950 | 5600 | 2.67 |
| 3. | Nutrition management | Mineral mixture | 30 | 30 | 6.4 | 5.4 | 18.51 | - | - | 2300 | 5200 | 2900 | 2.26 | 2200 | 4500 | 2300 | 2.04 |
| 4. | Fodder management | New variety- GSF-5 | 20 | 20 | 336 (q/ha) | 280 | 20.00 | - | - | 25500 | 80000 | 54500 | 3.13 | - | - | - | - |
| **Dairy cow (Adaptive trial)** | | | | | | | | | | | | | | | | | |
| 1. | Nutrition management | Bypass protein | 30 | 30 | 8.2 | 7 | 17.14 | - | - | 4000 | 9800 | 5800 | 2.45 | 3350 | 8100 | 4750 | 2.41 |
| 2. | Nutrition management | Mineral mixture | 30 | 30 | 6.3 | 5.5 | 14.54 | - | - | 2300 | 5400 | 3100 | 2.34 | 2200 | 4600 | 2400 | 2.09 |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

**IV. FLD on Other Enterprise: (Kharif, Rabi, Summer-2020-21):**

| Category and Crop | Thematic area | Name of the technology demonstrated | No. of Farmer | No. of Units | Yield (Kg) | | % change in yield | Other parameters | | Economics of demonstration (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| Plant Protection | Mushroom production | Oyster musroom cultivation | 30 | 30 | 10 Kg/ 1 Kg spawn | - | - | - | - | 300 | 1600 | 1300 | 5.38 |
| Home science | Nutrition garden- *kharif* | Organic kitchen garden | 35 | 35 | 98.6 | - | - | - | - | 800 | 2370 | 1570 | 2.96 |
| Home science | Nutrition garden-*Rabi* | Organic kitchen garden | 25 | 25 | 96.9 | 25.00 | 287.60 | -- | -- | 680 | 2500 | 1820 | 3.67 |
| Home science | Nutrition garden-*Rabi*-Adaptive trial | Organic kitchen garden | 30 | 30 | 105.00 | 34.00 | 208.82 | -- | -- | 700 | 2400 | 1700 | 3.42 |

**V. Performance of Cluster Frontline Demonstrations (CFLD)- (Rabi, Summer-2020-21):CFLD 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 | | | | | | | | | | |
| **Crop Production** | | | | | | | | | | | | | | | | | | |
| Green gram | ICM | New variety | GM 6 | 50 | 20 | 820 | 765 | 802 | 559 | 43.44 | 20000 | 57751 | 37751 | 2.89 | 16500 | 40262 | 23762 | 2.44 |

* * Economics to be worked out based total cost of production per unit area and not on critical inputs alone.** BCR= GROSS RETURN/GROSS COST

**VI. FLDs under other schemes (Other than KVK-ICAR Budget-TSP, Adaptive trial, (Rabi, Summer-2020-21):**

| Category & Crop | Thematic Area | Name of the technology | Variety | No. of Farmers | Area (ha) | Yield (q/ha) | | | | % Change in Yield | Economics of demonstration* (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Demo | | | Check | | Gross Cost | Gross Return | Net Return | BCR** (R/C) |
| | | | | | | High | Low | Ave. | | | | | | |
| **Crop Production** | | | | | | | | | | | | | | |
| **Oilseed** | | | | | | | | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Crop Production pulse crops** | | | | | | | | | | | | | | |
| Gram (Adaptive) | ICM | New variety | GG 5 | 30 | 6 | 1225 | 1075 | 1163 | 854 | 36.18 | 16000 | 53498 | 37498 | 3.34 |
| Green gram (TSP) | ICM | New variety | GM 6 | 15 | 2.25 | 828 | 734 | 778 | 523 | 48.81 | 20000 | 56046 | 36046 | 2.80 |
| **Horticultural crops** | | | | | | | | | | | | | | |
| Turmeric | ICM | New variety | GNT 2 | 08 | 0.16 | 240 | 190 | 216 | 176 | 22.95 | 97700 | 216000 | 118300 | 2.21 |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone. ** BCR= GROSS RETURN/GROSS COST

**IV. FLD on Other Enterprise: (Kharif, Rabi, Summer-2021):**

| Category and Crop | Thematic area | Name of the technology demonstrated | No. of Farmer | No. of Units | Yield (Kg) | | % change in yield | Other parameters | | Economics of demonstration (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | BCR (R/C) |
| Kitchen garden | Nutrition garden | Organic kitchen garden | 40 | 40 | 90 | 35 | 157.14 | - | - | 800 | 2800 | 2000 | 3.5 |

**Ongoing FLDs of KVK Regular (2021-22)**

| Sr. No. | Discipline | Season | Crop/ Enterprise | Variety/ Technology Input | Area (ha) | No. of Demo. |
|---|---|---|---|---|---|---|
| 1. | Crop Production | *Kharif*, 2021-22 | Pigeon pea | GT-105 | 5 | 25 |
| 2. | | *Rabi,* 2021-22 | Gram | Gram – GJG 3 | 5 | 25 |
| 3. | Horticulture | *Kharif,* 2021-22 | French bean | Arka komal & Arka suvidha | 1 | 10 |
| 4. | | *Kharif,* 2021-22 | Okra | INM | 2.5 | 25 |
| 5. | | *Rabi,* 2021-22 | Bittergourd | INM | 2.5 | 25 |
| 6. | Plant Protection | *Rabi,* 2021-22 | Pigeon pea | Pheromone | 5 | 25 |
| 7. | | *Rabi,* 2021-22 | Gram | Trichoderma | 5 | 25 |
| 8. | | *Rabi,* 2021-22 | Bitter gourd | Cue lure trap | 5 | 25 |
| 9. | | *Rabi,* 2021-22 | Brinjal | YST & Pheromone trap | 5 | 25 |
| 10. | Animal Science | *Rabi* 2021-22 | Nutrition management | Mineral mixture | 30 Unit | 30 |
| 11. | | *Rabi*2021-22 | Backyard Poultry | New Breed- Rhode Island Red | 20 Unit | 20 |
| **Total** | | | | | **26 ha/50 Unit** | **260** |

**IX. Demonstrations given under other schemes (*kharif*/*Rabi/Summer*,2021-22):**

| Sr. No. | Scheme/ Particulars of the FLD | Season | Crop | Variety/ Component/ Technology | Area (Unit/ha) | No. of Demo. |
|---|---|---|---|---|---|---|
| **I** | **Adaptive trial (Phase-2)** | | | | | |
| 1. | Crop Production | Rabi, 2021-22 | Gram | GJG 3 | 8 | 40 |
| 2. | Horticulture | Rabi, 2021-22 | Indian bean | GNIB-22 | 1.1 | 11 |
| 3. | Plant Protection | Rabi, 2021-22 | Mushroom | Mushroom kit | 38 unit | 38 |
| 4. | Animal Science | Rabi, 2021-22 | Backyard Poultry | New Breed-Rhode Island Red | 20 Unit | 20 |
| **Total** | | | | | **58 unit /8 ha** | **109** |

**# Farmers Feedback on the demonstrated technologies:**

| Sr. No. | Discipline | Feed Back |
|---|---|---|
| 1. | Crop Production | Farmers want seeds of indigenous varieties of paddy. |
| 2. | | GR 17 variety of paddy was given higher and quality production than local. |
| 3. | | GT 104 variety of pigeonpea suitable for Vegetable purpose. |
| 4. | Horticulture | Need to develop government sector hybrid variety of okra suitable for dang district. |
| 5. | | Research on Government sector variety for safed musli for dang district. |
| 6. | Plant Protection | Need organic pesticides pheromone trap and yellow sticky trap from NAU, Navsari. |
| 7. | | Fresh mushroom available-for their own consumption. |
| 8. | Animal Science | Feeding area specific mineral mixture along with timely deworming resulted in to better body growth rate. |
| 9. | | Feeding bypass fat along with mineral mixture in cross breed cattle resulted increase milk production and better health. |
| 10. | Home Science | Fil up the vacant post home science. |

**# Technical Feedback for research/ extension activities**

| Sr. No. | Discipline | Feed Back |
|---|---|---|
| 1. | Crop Production | GNN 8 variety of finger millet was not suitable for Dang due to early maturity. |
| 2. | | Standardization of method of preparation of Jeevamrut and their application. |
| 3. | Horticulture | Need to develop government sector hybrid variety of bittergourd. |
| 4. | | Need to develop early variety in the turmeric for the dang district. |
| 5. | Plant Protection | Need marketing channel for oyster mushroom. |
| 6. | | Mushroom cultivation can be adopted as source of income with agriculture as simple production technology. |
| 7. | Animal Science | Measures must be taken for conservation of local Dangi cattle breed as there is meager number of animals available in its own breeding track of Dangi cattle. |
| 8. | | To develop area specific mineral mixture for dang district. |
| 9. | Extension Education | Research should be carried out on natural farming. |
| 10. | | Appoint one forest SMS for large scale awareness about crop cultivation in forest areas. |

**C. On Farm Trials (OFTs):**

**(I) Ongoing : 05**

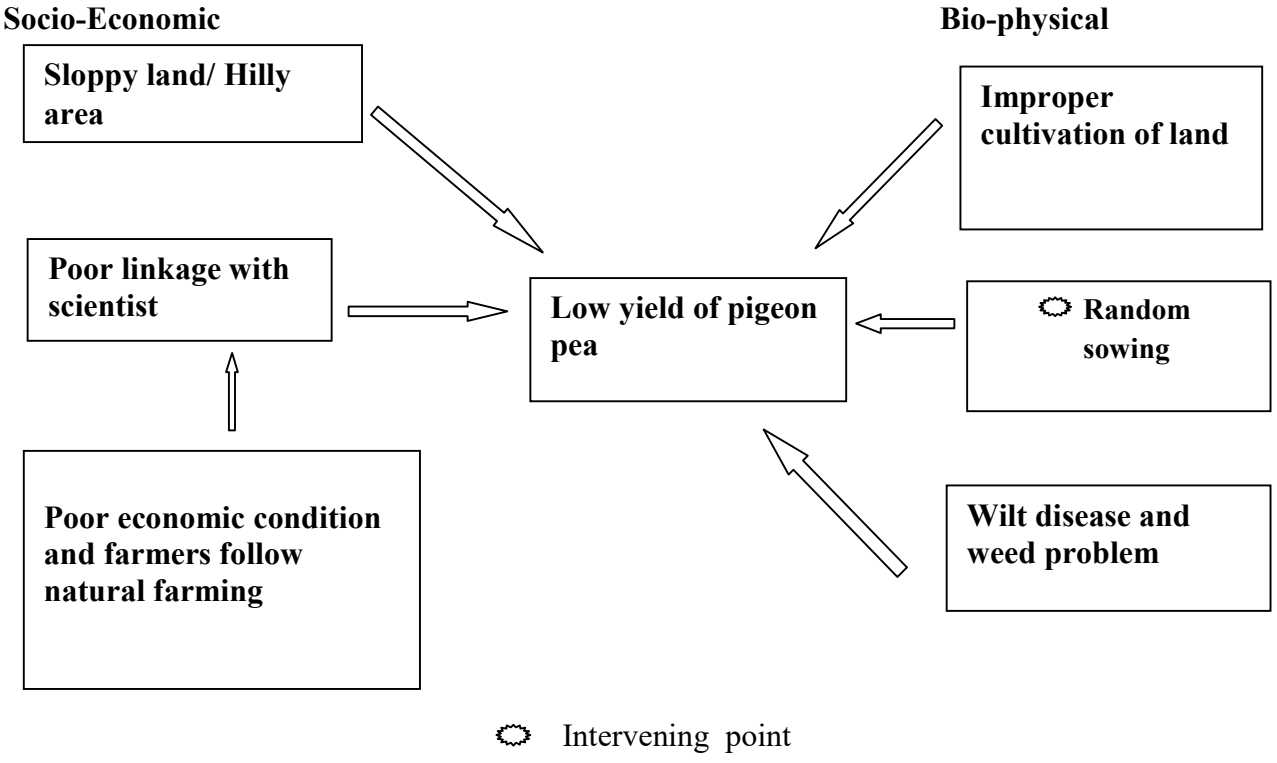
## OFT-1

**Title: Spacing management in pigeon pea**

**Background:**

In dang district, productivity of pigeon pea is low because of improper cultivation of land and random sowing method followed by farmers. Due to this severe wilt problem in seedlings and weed problems which ultimately affect the growth and yield of pigeon pea. Pigeon pea requires well cultivated land and specific spacing for its growth and development. Improper cultivation with random sowing reduce the plant population and ultimately its reduce the crop yield.

**Problem**: See the problem cause diagramme



| | |
|---|---|
| **Treatments: 02** | $T_1$ : Farmers Practices (Random sowing)<br>$T_2$ : 45 x 15 cm<br>$T_3$ : 60 x 20 cm |
| **Details of OFT:** | |
| Variety | GNP 2 |
| Seed rate | 20 kg/ha |
| Season | *Kharif* – 2019-20 |
| No. of villages | 01 (Dokpatal) |
| No. of farmers | 10 |
| Area/treatment/farmer | 0.03 ha (3 treatment/ each farmer) |
| Total area of OFT | 1.0 ha |
| **Observation recorded** | Plant height (cm),No. of branches/plant, No of pod/plant, Yield (kg/ha) |
| **Name of critical inputs** | Seed, Novel organic fertilizer, *Rhizobium* |

**Performance of the technology with performance indicators:**

**Result**:

| Treatment / Yield (Kg/ha) | ***Kharif*-2019** | | | ***Kharif*-2020** | | |
|---|---|---|---|---|---|---|
| | **$T_1$** | **$T_2$** | **T3** | **$T_1$** | **$T_2$** | **T3** |
| Highest | 9.55 | 11.05 | 12.25 | 10.50 | 12.40 | 13.40 |
| Lowest | 8.75 | 9.90 | 11.55 | 08.60 | 10.50 | 10.60 |
| Average | 9.13 | 10.56 | 11.82 | 09.47 | 10.97 | 12.10 |

***Kharif*-2021:**

Awaited

## OFT-2:

**Title: Varietal assessment of Tomato in the Dangs (Assessment)**

**Background:**

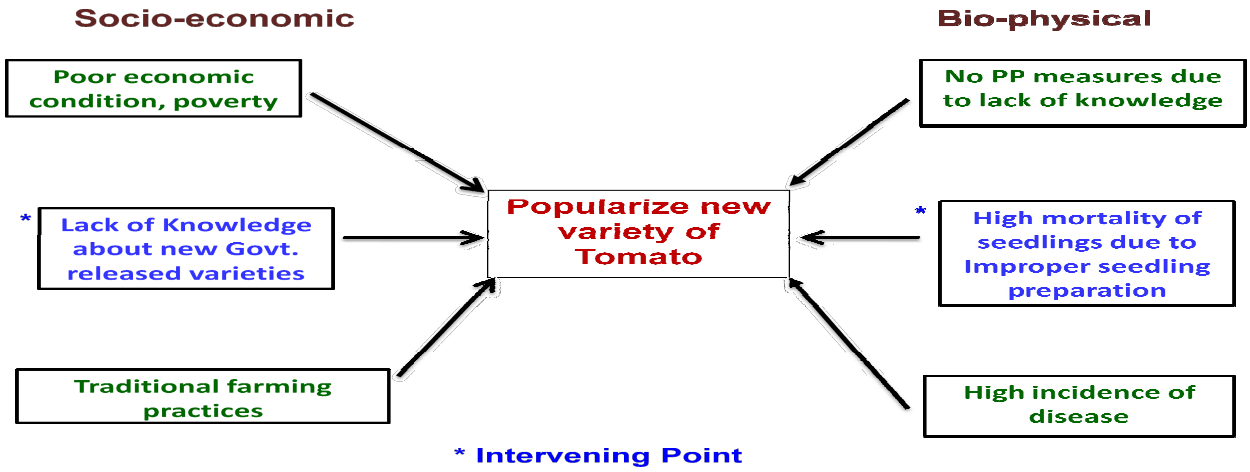
In the Dangs district, mostly hybrid variety of tomato (private company) is grown with low yield potential due to lack of knowledge about proper seedling preparation and lack of knowledge about new released variety of State Agricultural Universities and Government Institutions.

Tomato variety GT-7 (301.0 q/ha) performed well under South, Middle and North Gujarat regions. This variety showed less damage by fruit borer, whitefly as well as leaf miner.

Tomato variety “Arka Rakshak” is a First F1 hybrid with triple disease resistance to Tomato Leaf Curl Virus, Bacterial Wilt and Early blight. Fruits square round, large (90-100g), deep red colored and firm. Suitable for fresh market and processing.

OFT has been framed for comparing farmer adopted private company variety to "GT-7" and "Arka Rakshak" variety.

**Problem cause diagram**




| | | |
|---|---|---|
| **1** | **OFT Title** | Varietal assessment of Tomato in the Dang District |
| **2** | **Prioritized problem** | Low yield of Farmers adopted hybrid variety (due to lack of knowledge about proper scientific cultivation method) |
| **3** | **Technology Assessed** | $T_1$: Farmers practices (Hybrid varieties )<br>$T_2$: Gujarat Tomato-7<br>$T_3$: Arka Rakshak |
| **4** | **Variety** | "Gujarat Tomato-7" and "Arka Rakshak" |
| **5** | **Seed rate** | 250-300 gram/ha for Improved variety &<br>100-150 gram/ha for Hybrid variety |
| **6** | **Season** | *Kharif* – 2019-20 |
| **7** | **No. of trials** | 10 (0.02 ha per treatment and 0.06 ha per farmer) |
| **8** | **Total area of OFT** | 0.6 ha |
| **9** | **Observation to be studied** | Primary parameters : Yield of Tomato (kg/ha),<br>Secondary parameters (average): days to 50 % Flowering, days to first fruit maturity, Number of branches, Fruits per plant (no.) |
| **10** | **Source of Technology** | Navsari Agricultural University, Navsari (2017-18)<br>ICAR-IIHR, Bangalore, (2013) |
| **11** | **Name of critical input** | seeds, Novel organic liquid fertilizer, PSB and *Azotobacter* and KMS (Novel & other Bio-fertilizer given for adoption of organic farming) |

**Result** :

| Sr. No. | Year | No of trial | Area (ha) | Yield(Q/ha) | | |
|---|---|---|---|---|---|---|
| | | | | T1: Farmers practices (Hybrid varietie- vaishali) | T2: Gujarat Tomato-7 | T3: Arka Rakshak |
| 1. | 2019-20 | 10 | 0.6 | 308.00 | 224.00 | 467.00 |
| 2. | 2020-21 | 10 | 0.6 | 298.00 | 200.00 | 455.00 |
| 3. | 2021-22 | 10 | 0.6 | Result Awaited | | |

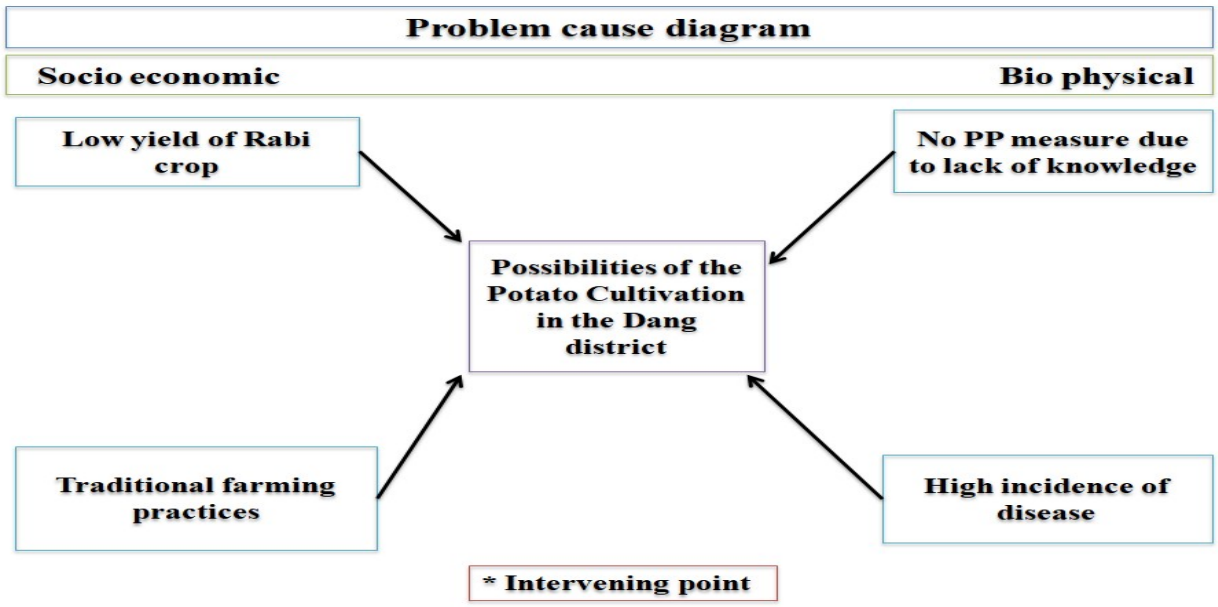
Note: Secondary parameters could not be possible on farmer's field)

## OFT-3:

**Title: Possibilities of Potato cultivation in The Dangs district (Assessment)**

**Background:**

In Dang district, chickpea is commonly grown in winter crops. Considering the soil of Dang district and as per the suggestion of Scientific Advisory Committee, it is possible to cultivate potato in Dang district. This on-farm trial is designed to test potato cultivation in the Dang district. According to the agriculture department of Dang district, the chickpea crop in Dang district yields about 2.5 quintals. The estimated production of potato(Var. Kufri badshah) is 50 tons per hectare



**Details of OFT**

| | | |
|---|---|---|
| **1** | **Prioritized problem** | Possibilities of Potato cultivation in The Dangs district |
| **2** | **Technology Assessed** | T1: Farmers practices (Gram)<br>T2: Potato crop( Kufri Badshah) |
| **3** | **Variety** | "Kufri badshah" |
| **4** | **Seed rate** | 2500-3000 kg/ha for one row planting |
| **5** | **Season** | Rabi– 2022 |
| **6** | **No. of trials** | 06 (1.66 guntha per treatment and 3.33 guntha per farmer) |
| **7** | **Total area of OFT** | 20 guntha (0.2 ha) |
| **8** | **Observation to be studied** | Yield of potato (kg/ha) |
| **9** | **Source of Technology** | Central Potato Research station , Kufrim Himachal Pradesh (1980) |
| **10** | **Name of critical input** | Tuber (50 kg per farmer) |

**Result :**

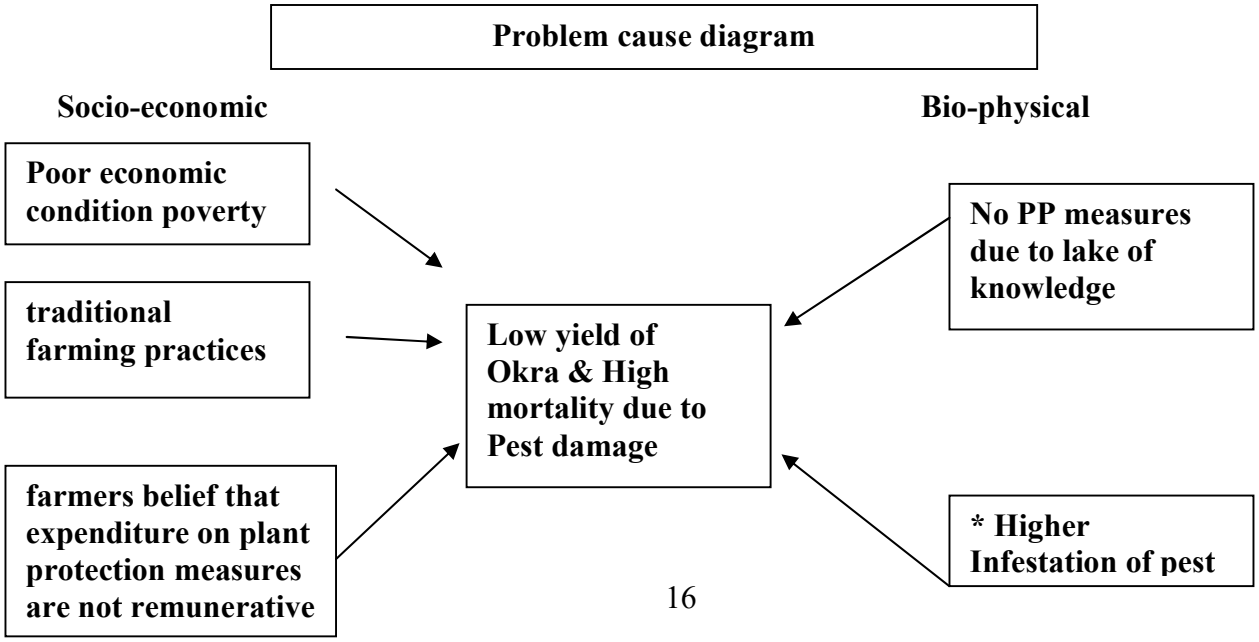
Awaited :

**OFT 4**

**Management of Fruit & Shoot borer of Okra**

**Background :**

Okra (*Abelmoschus esculentus*) is a vegetable crop widely grown during *Kharif* / *Rabi* season in dang district. Day by day increasing the area of Okra in this district gives comaparatively lower yield. Large number of hybrid available in the market but cost of seeds as well as higher incidence of pest affect yield. Assessment of such public variety in Dang district for best performance for growth, yield and quality character for avoid these problem OFT is taken.



***Intervening point**

| | |
|---|---|
| **Treatments:** | $T_1$: Farmers practice<br>$T_2$: Installation of Pheromone trap<br>$T_3$ : Spray Azadirachtin (Neem oil based) 300ppm/1500 ppm |
| **Season** | *Kharif* - 2021 |
| **No. of villages** | 01 |
| **No. of farmers** | 06 |
| **Area/treatment/farmer** | 0.2 ha per treatment & 0.6 ha per farmer |
| **Total area of OFT** | 3.6 ha |
| **Observation to be recorded** | (1) Yield of Okra (kg/ha) |
| **Estimated cost of inputs per trial/per farmer** | Rs. 4000 (Approx.) |

**Result :**

Awaited :

**OFT 5**

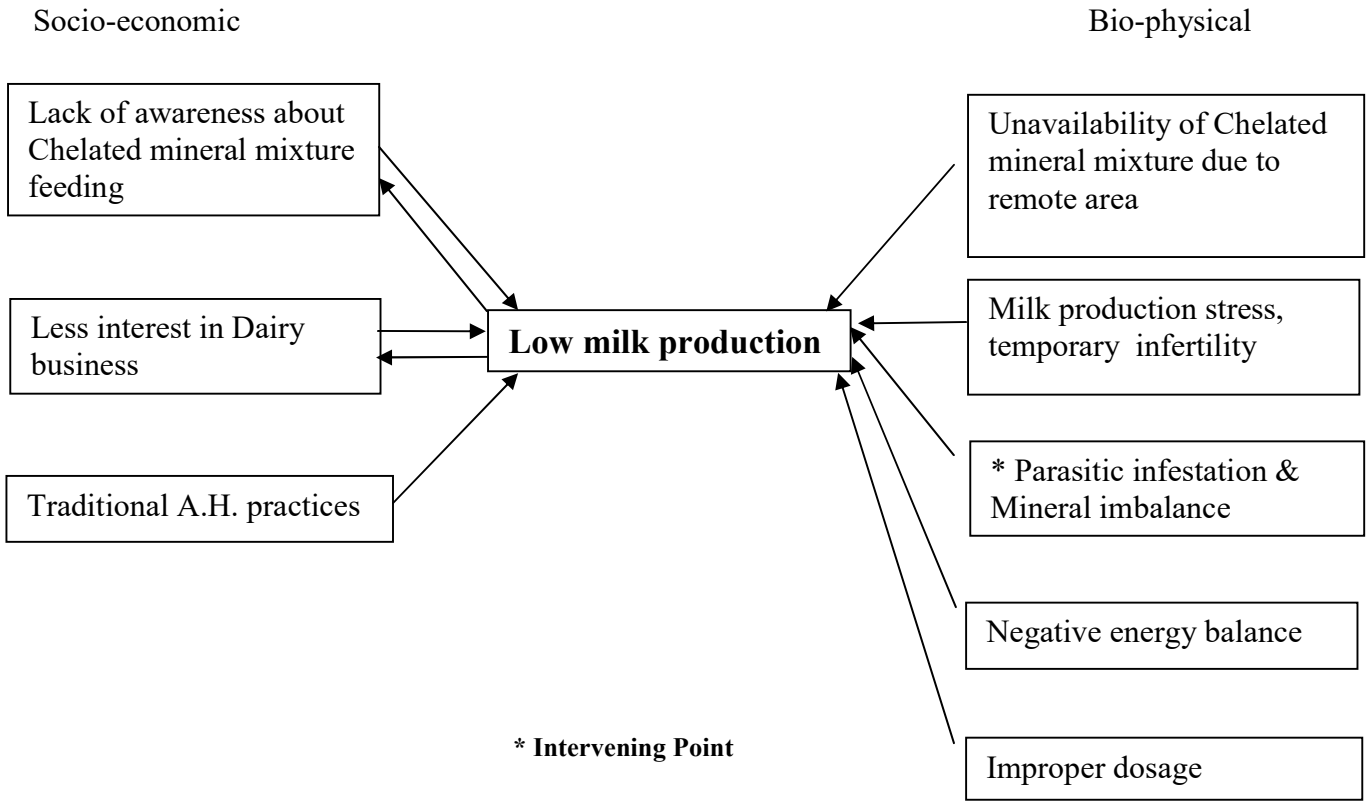
**Title: - Title : Use of Chelated minerals in the diet of crossbred HF cows**

**Background :**

Parasitic load and mineral imbalance are known to directly affect the milk production to cattle. The dang district is a hilly area with heavy rainfall. Animal lining in such area became prone to parasitic infection due to ingestion of infected grasses around stagnant water while grazing. A few years ago, people were using local breeds & traditional husbandry practices, but now a days they are rearing crossbred cows. These valuable animals are highly productive but due to particular geographical location such animals become infected with parasites which directly affects the milk production.

Moreover, in spite of high rain, there is water scrcity during summer season due to particular geographical condition. So, green fodder is not available during summer, hence these animals undergo mineral imbalance & improper feeding. The socio- economic status of frames is not very good so, they could not feed their animals with mineral supplements. Such animals undergo negative energy balance due to malnutrition & high milk yield whatever the green grass these animals are grazing is surrounded by stagnant water & hence become infected by parasites. So, to overcome these problems of parasitic infestation & mineral imbalance we have identified following problems in proposed on farm testing programme.

Problem cause diagram




**Problems :**

- ✓ Low milk production due to mineral imbalance & parasitic infestation
- ✓ Negative energy balance
- ✓ Milk production stress

**Source of technology:** NDRI, karnal

**Production system and thematic area:** Feeding management

**Treatments :**

T 1- Farmer's practice – feeding of locally available feeds and fodders

T 2- T1 + Chelated minerals @ 30 gm/cow/day for 120 days

T3- T1 + Chelated minerals @ 30 gm/cow/day for 120 days + Bol. Fenbendazol @ 5-7.5 / kg body weight

**Detail of OFT Programme:**

- ✓ No. of Villages : 10
- ✓ No. of animals: 10 crossbred milking cows each group

**Parameters to be evaluated/ recorded:**

**Result :**

Awaited :

## C. On Farm Trials (OFTs):
## (II) Completed : 05

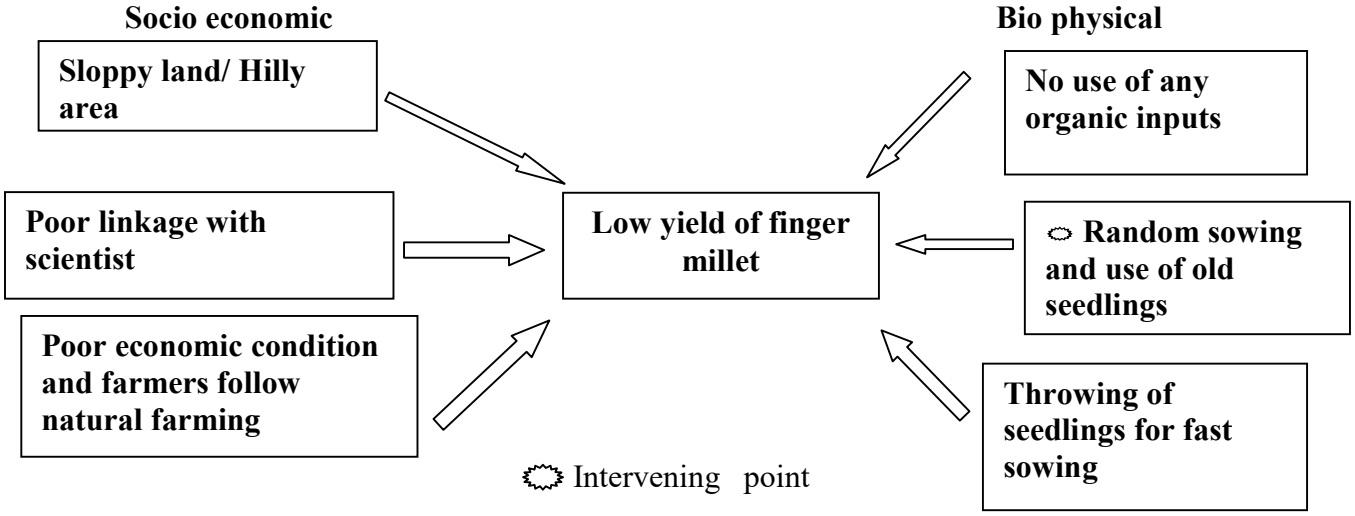
## OFT-1

### Title: Sowing method in finger millet

**Background:**

Finger millet is a main staple food for tribal farmers of Dang district and also it emerging as a important nutritive cereal crop due to its high nutrient content. In Dang district, finger millet is normally grown on poor and marginal soils. Finger millet requires healthy seedlings and specific spacing for its growth and development. Most of the farmers followed random throwing of seedlings which reduce the number of productive tillers and ultimately its reduce the crop yield.

**Problem**: See the problem cause diagramme




| | |
|---|---|
| **Treatments: 02** | $T_1$: Farmers Practices (Random throwing)<br>$T_2$: 30 x 10 cm<br>$T_3$: 22.5 x 7.5 cm |
| **Details of OFT:** | |
| Variety | GNN 8 |
| Seed rate | 5 kg/ha |
| Season | *Kharif – 2019-20, Kharif – 2020-21* |
| No. of villages | 01 (Borpada) |
| No. of farmers | 10 |
| Area/treatment/farmer | 0.03 ha (3 treatment/ each farmer) |
| Total area of OFT | 1.0 ha |
| **Observation recorded** | Plant height (cm), No of productive tillers/plant,<br>No. of fingers/ plant, Yield (kg/ha) |
| **Name of critical inputs** | Seed, Novel organic fertilizer, PSB and *Azotobacter* |

**Results (1st, 2st & 3rd year):**

| Sr. No. | Year | No of trial | Area (ha) | Yield(Q/ha) | | |
|---|---|---|---|---|---|---|
| | | | | Farmers Practices (Random throwing) | 30 x 10 cm | 22.5 x 7.5 cm |
| 1. | 2019 | 10 | 1 | 10.06 | 12.18 | 14.10 |
| 2. | 2020 | 10 | 1 | 9.45 | 11.94 | 13.20 |
| 3. | 2021 | 10 | 1 | 10.95 | 13.74 | 15.30 |
| | | | Average | 10.15 | 12.62 | 14.20 |

**Farmers Feedback, matrix scoring of various technology parameters done through farmer's participation/ other scoring techniques:**

**Farmers Feedback**

1. Farmers are impressed by recommended practices.
2. It is easy for farmers to remove weed in 22.5 x 7.5 cm sowing of Finger millet rather than farmer practices.
3.Higher yield in recommended practices due to easy weeding and less competition of nutrients and fertilizer between plants.

**Final recommendation for micro level situation:**

On the basis of three years average data, treatment $T_3$ (22.5 x 7.5 cm) gave 14.20 Q/ha yield as compared with $T_1$ i.e. farmer practices (10.15 Q/ha) with net return (Rs. **26650**) having 3.31 BC Ratio.

**Constraints identified and feedback for research: Nil**

**Process of farmer's participation and their reaction:**

1. Field day, Method demonstration, OFT visit etc.
2. Farmers are ready to adopt this technology

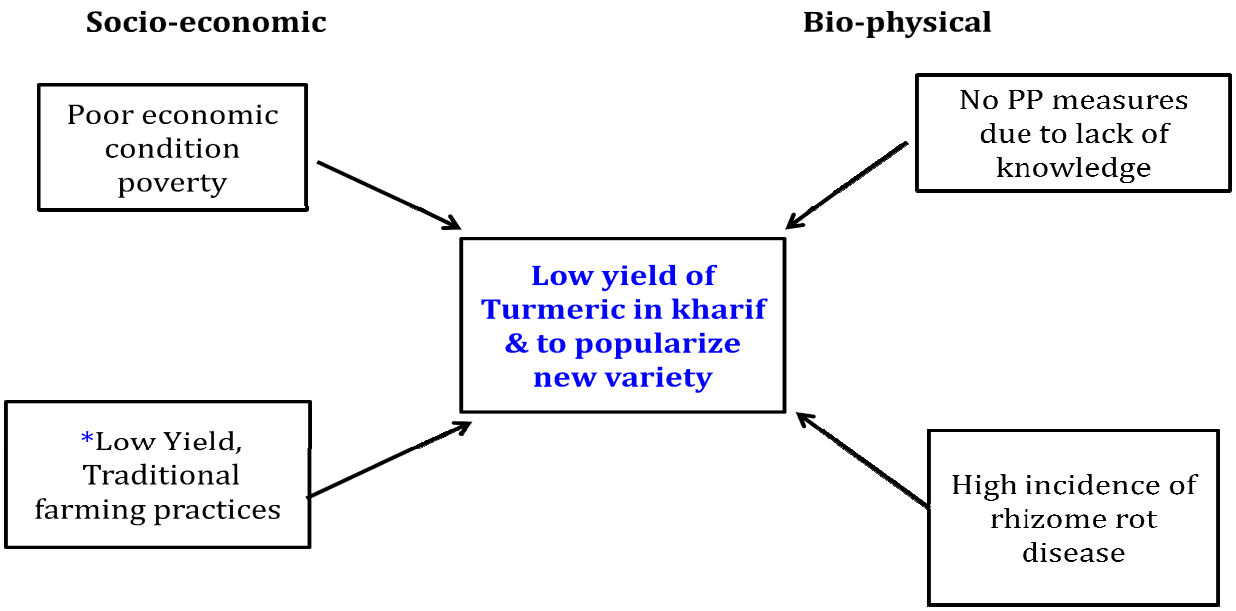
## OFT-2:

**Title: Varietal assessment of Turmeric during *Kharif* season in the Dangs**

**Details of technologies selected for assessment**

Turmeric (*Curcuma longa* L) is one of the most valuable and important spices all over the world, belongs to the family Zingiberaceae. It is an important spices crop grown in certain pockets of the Dangs district especially during *Kharif* season due to which farmers gets better returns. In the Dangs, it is grown in an about 235 ha area and production is about 5405 M.T (Annual Progress report, 2016-17). In Dangs mostly Salem variety of Turmeric is grown with low yield potential of 130 to 140 q/ha , so the OFT has been framed for comparing "Gujarat Navsari Turmeric 1" variety which is having average yield potential of 230 to 330 q/ha.

**Problem cause diagram**




*Intervening point

| **Treatments:** | $T_1$: Farmers practices (Salem Variety)<br>$T_2$: Gujarat Navsari Turmeric 1 |
|---|---|
| **Seed rate** | 2500 kg per ha |
| **Season** | *Kharif* – 2018 |
| **No. of villages** | 05 |
| **No. of farmers** | 10 |
| **Area/treatment/farmer** | 0.036 ha per treatment & 0.072 ha per farmer |
| **Total area of OFT** | 0.72 (Total area = Farmers practices + Demonstration unit) |
| **Observation to be recorded** | Yield of Turmeric (kg/ha) |
| **Estimated cost of inputs per trial/per farmer** | Rs. 7000.00 (Approx.) |

Note: Due to the suggestion of ATARI , pune in AAP meeting in 2019-20 , expenditure on OFT should be decrease so in 2019-20 (second year) OFT conducted in only 0.72 ha.

**Result:**

**Performance of the Technology with performance indicators**:

| Sr. No. | Year | No of trial | Area (ha) | Yield(Q/ha) | |
|---|---|---|---|---|---|
| | | | | $T_1$: Farmers practices (Salem Variety) | $T_2$: Gujarat Navsari Turmeric -1 |
| 1. | 2018-19 | 10 | 2 | 135.1 | 189.2 |
| 2. | 2019-20 | 10 | 0.72 | 145.50 | 180.00 |
| 3. | 2020-21 | 10 | 0.72 | 157.50 | 188.00 |

**Conclusion:**

On the basis of the study carried out for three consecutive years it is summarized that $T_2$ – recorded the highest yield in comparison to $T_1$ However yield with $T_2$ was comparatively higher than $T_1$. So it is concluded that $T_2$ : Gujarat Navsari Turmeric 1 proved the best practices in tribal area of Dangs.

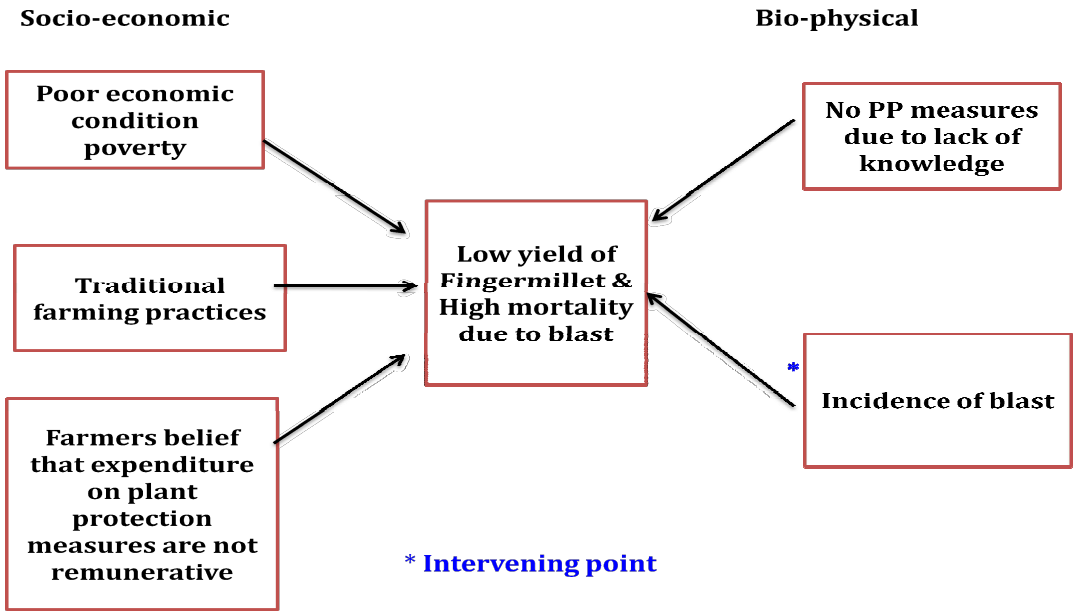
## OFT-3:

**Title: Control of blast disease of Finger millet in the Dangs**

## Background :

Finger millet (*Elusine corcana*) is a cereal crop widely grown during *Kharif* season in dang district. Locally it is known as Nagli or Ragi. Finger millet is infected by blast disease. Occasional out break of this disease causing losses to farmer.

## Problem cause diagram




| | |
|---|---|
| **Treatments:** | $T_1$: Farmers practice<br>$T_2$: Spray of *Pseudomonas* sp. @ 60ml/10litre of water<br>$T_3$ : Seed treatment *Trichoderma harzianum*@5 g/kg seed |
| **Seed rate** | 5 kg/ha |
| **Season** | *Kharif* – 2019 |
| **No. of villages** | 01 |
| **No. of farmers** | 06 |
| **Area/treatment/farmer** | 0.2 ha per treatment & 0.6 ha per farmer |
| **Total area of OFT** | 3.6 ha |
| **Observation to be recorded** | (1) Yield of Fingermillet (kg/ha) |
| **Estimated cost of inputs per trial/per farmer** | Rs. 4000(Approx.) |

**Performance of the technology with performance indicators:**

| Sr. No. | Year | No of trial | Area (ha) | Yield(Q/ha) | | |
|---|---|---|---|---|---|---|
| | | | | $T_1$ | $T_2$ | T3 |
| 1. | 2019-20 | 06 | 3.6 | 9.75 | 13.90 | 13.65 |
| 2. | 2020-21 | 06 | 3.6 | 8.41 | 10.31 | 9.98 |
| 3 | 2021-22 | 06 | 3.6 | 10.09 | 14.11 | 13.20 |

**Result:**

| Treatment / Yield (Kg/ha) | *Kharif*-2019 | | | *Kharif*-2020 | | | *Kharif*-2021 | | |
|---|---|---|---|---|---|---|---|---|---|
| | **$T_1$: Farmers practice** | **$T_2$: Spray of *Pseudomonas* sp.** | **$T_3$ : Seed treatment *Trichoderma harzianum*** | **$T_1$: Farmers practice** | **$T_2$: Spray of *Pseudomonas* sp.** | **$T_3$ : Seed treatment *Trichoderma harzianum*** | **$T_1$: Farmers practice** | **$T_2$: Spray of *Pseudomonas* sp.** | **$T_3$ : Seed treatment *Trichoderma harzianum*** |
| Highest | 1050 | 1500 | 1450 | 865 | 1035 | 1020 | 1030 | 1430 | 1390 |
| Lowest | 935 | 1300 | 1300 | 825 | 1025 | 985 | 996 | 1390 | 1265 |
| **Average** | **975** | **1390** | **1365** | **841** | **1031** | **998** | **1009** | **1411** | **1320** |

**Conclusion**

The on farme trail conducted in village of dangs district resulted treatment $T_2$ – (spray of pseudomonas sp. @60 ml/10 liter of water) in finger millet showed highest yield production as compared to treatment $T_1$ & $T_3$.

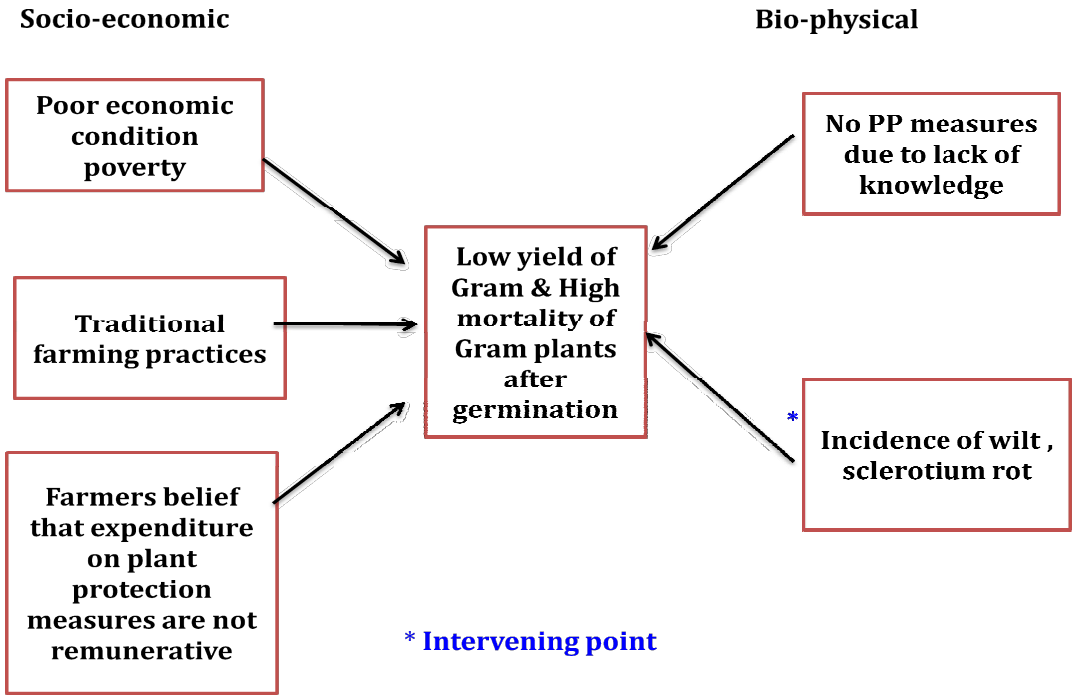
## OFT-4:

**Title: Control of wilt in Gram**

**Background:**

Gram is a pulse crop grown during Rabi season in dang district. Gram is infected by wilt, sclerotium rot disease causing occasional outbreak and economical loss to farmers. In view of losses caused by wilt & sclerotium rot disease in dang, we propose this on farm testing to reduce disease incidence and increase yield.

## Problem cause diagram




| | |
|---|---|
| **Treatments:** | $T_1$: Farmers practice<br>$T_2$: Seed Treatment of *Trichoderma viride* @ 5 g/kg of seed |
| **Variety** | Local variety |
| **Season** | *Rabi*- 2018 |
| **No. of villages** | 3 |
| **No. of farmers** | 6 |
| **Area/treatment/farmer** | 0.2 ha |
| **Total area of OFT** | 2.4 ha |
| **Observation to be recorded** | Yield of Gram (kg/ha) |
| **Estimated cost of inputs per trial/ per farmer** | 1000/- |

**Result (1st year):**

| Sr. No. | Year | No. of trial | Area (ha) | Yield (Q/ha) | |
|---|---|---|---|---|---|
| | | | | $T_1$ – Farmers practice | $T_2$ – Seed Treatment with *Trichoderma viride* @ 5 g/kg of seed |
| 1. | *Rabi*-2018-19 | 6 | 2.4 | 9.25 | 10.58 |
| 2. | *Rabi*-2019-20 | 6 | 2.4 | 9.26 | 10.50 |
| 3. | *Rabi*-2020-21 | 6 | 2.4 | 9.41 | 11.63 |

**Conclusion**

The on farme trail conducted 'Control of wilt in gram' conducted in village of Dangs district resulted treatment $T_2$ Seed Treatment of Trichoderma viride @ 5 g/kg of seed showed highest yield production as compared to treatment $T_1$ Farmer Practices.

## OFT -5.

**Title: Effect of supplementing mineral mixture and concentrate on body growth performance in calves**

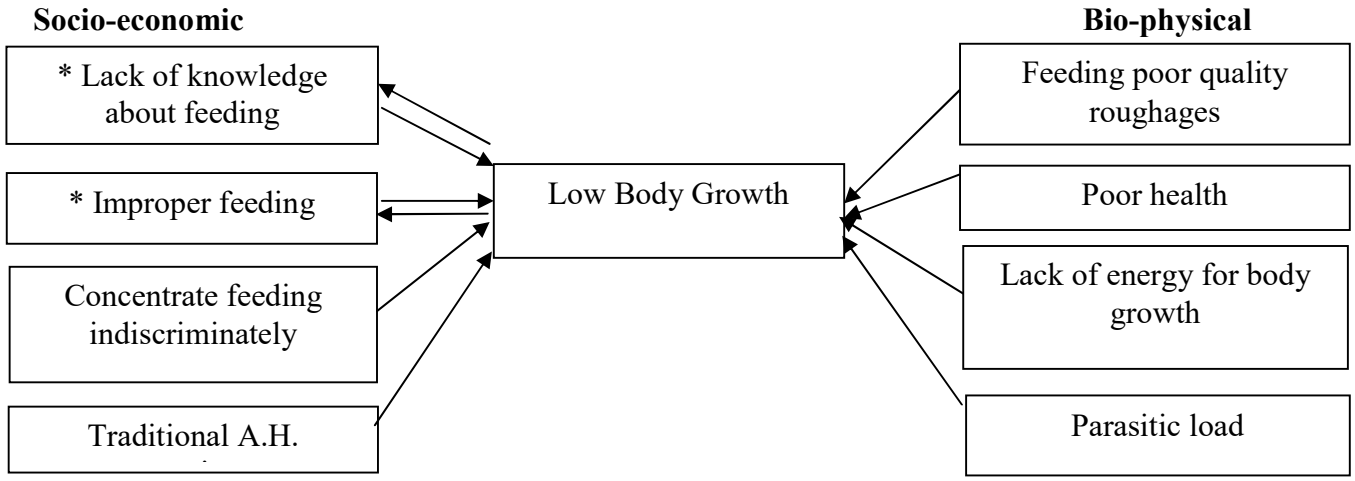
**Background:**

Milk production is growing at a much faster pace compared to many other agricultural commodities and is being increasingly viewed as a source of food and an effective instrument for improving livelihood. Major share of milk produced in India is by small and marginal farmers with mixed crop-livestock production system as the dominant system. Increasing demand for milk offers possibility of scope to improve their income. Dairy production is mainly based on proper scientific feeding of animals. The growing calves are to be fed with good quality roughages with green fodder belonging to legumes or cereals as per the availability. Looking to the productivity of crossbred cattle such food resources are not sufficient to meet the nutrient requirement of growing calves. Hence we have to add more nutrious food in to the diet of such animals to reach the maximum body growth and to maintain the normal body condition. Concentrate feeding is very common to overcome nutrient deficit. Which we can only fed on a dry matter basis, as it is not a natural food for ruminants. Now a day, mineral mixture feeding technology is recommended for cattle. Dang district of Gujarat is a heavy rainfall area having about 10,000 crossbred cattle population and still the figure is increasing very rapidly. The farmers in Dangs district are feeding mineral mixture and concentrate along with deworming to only lactating animals. The growing calves are the future of dairy industry of tomorrow. So, complete awareness regarding animal nutrition in the Dangs is necessary. The growing calves are to be regularly dewormed and fed with the 15 gm of mineral mixture supplementation along with the concentrate at the rate of 1% body weight on daily ration basis.

Hence, we have proposed this on farm testing by our KVK to fulfill the nutritional demand of growing calves.

| | |
|---|---|
| Treatments | $T_1$-Framer's practice (n=10)<br>$T_2$-Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) (n=10)<br>$T_3$-Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) + Concentrate feeding @ 1% body weight (n=10) |
| Problems | Lack of knowledge about mineral mixture and concentrate feeding technology.<br>Lower body growth due to improper feeding. |
| No. of villages | 5 |
| No. of animals | 30 (6 growing calves was selected from each village) |
| Parameters recorded | Body weight (kg) |
| Estimated cost of inputs per trial/per farmer | 15000/- |

**Problem cause diagram**




*** Intervening Point**

**Performance of the Technology with performance indicators :**
**Result :**

**Table 8.1: Effect of supplementing mineral mixture and concentrate on body growth performance in calves (2018-19)**

| Average Body Weight (Kg) | $T_1$ (n = 10) | $T_2$ (n = 10) | $T_3$ (n = 10) |
|---|---|---|---|
| First Month | 17.5 kg | 17.9 kg | 18.6 kg |
| Second Month | 23.7 kg | 24.4 kg | 25.5 kg |

| | | | |
|---|---|---|---|
| Third Month | 33.5 kg | 34.2 kg | 34.9 kg |
| Forth Month | 41.8 kg | 42.7 kg | 43.3 kg |
| Fifth Month | 49.2 kg | 50.3 kg | 50.9 kg |
| Sixth Month | 60.3 kg | 61.2 kg | 62.1 kg |

**Table-8.2: Economic Impact**

| **Cost of cultivation (Rs)** | | | **Av. Gross return (Rs)** | | | **Av. Net return (Rs)** | | | **B:C** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **D** | | **LC** | **D** | | **LC** | **D** | | **LC** | **D** | | **LC** |
| **$T_3$** | **$T_2$** | **$T_1$** | **$T_3$** | **$T_2$** | **$T_1$** | **$T_3$** | **$T_2$** | **$T_1$** | **$T_3$** | **$T_2$** | **$T_1$** |
| 2800 | 2600 | 2400 | 5000 | 4400 | 3600 | 2200 | 1800 | 1200 | 1.78 | 1.69 | 1.50 |

**2nd year result: (2019-20)**

| **Average Body Weight (Kg)** | **$T_1$ (n = 10)** | **$T_2$ (n = 10)** | **$T_3$ (n = 10)** |
|---|---|---|---|
| First Month | 18.4 | 19.3 | 20.6 |
| Second Month | 24.2 | 26.4 | 27.8 |
| Third Month | 33.9 | 35.7 | 36.9 |
| Forth Month | 42.1 | 43.8 | 45.4 |
| Fifth Month | 49.8 | 51.6 | 53.8 |
| Sixth Month | 61.9 | 63.8 | 65.7 |

**Table-8.3: Economic Impact**

| **Cost of cultivation (Rs)** | | | **Av. Gross return (Rs)** | | | **Av. Net return (Rs)** | | | **B:C** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **D** | | **LC** | **D** | | **LC** | **D** | | **LC** | **D** | | **LC** |
| **$T_3$** | **$T_2$** | **$T_1$** | **$T_3$** | **$T_2$** | **$T_1$** | **$T_3$** | **$T_2$** | **$T_1$** | **$T_3$** | **$T_2$** | **$T_1$** |
| 2800 | 2600 | 2400 | 4900 | 4400 | 3700 | 2100 | 1800 | 1300 | 1.75 | 1.69 | 1.54 |

**3rd year result: (2020-21)**

| Average Body Weight (Kg) | $T_1$ (n = 10) | $T_2$ (n = 10) | $T_3$ (n = 10) |
|---|---|---|---|
| First Month | 18.7 | 19.8 | 20.8 |
| Second Month | 24.6 | 27.4 | 28.2 |
| Third Month | 34.9 | 35.8 | 36.8 |
| Forth Month | 43.1 | 45.6 | 46.8 |
| Fifth Month | 51.8 | 53.5 | 55.9 |
| Sixth Month | 62.8 | 65.4 | 67.6 |

**Table-8.4: Economic Impact**

| Cost of cultivation (Rs) | | | Av. Gross return (Rs) | | | Av. Net return (Rs) | | | B:C | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | | LC | D | | LC | D | | LC | D | | LC |
| $T_3$ | $T_2$ | $T_1$ | $T_3$ | $T_2$ | $T_1$ | $T_3$ | $T_2$ | $T_1$ | $T_3$ | $T_2$ | $T_1$ |
| 2800 | 2600 | 2400 | 5000 | 4500 | 3600 | 2200 | 1900 | 1200 | 1.78 | 1.73 | 1.5 |

**Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:** Feeding of mineral mixture along with Concentrate feed resulted in to better body growth performance.

**Conclusion:**

On the basis of the study carried out for three consecutive years it is summarized that T3 – recorded the better body growth performance in comparison to T1 & T2, However the body weight gain with T2 was comparatively higher than T1. So it is concluded that T3 : Feeding of 15 gm mineral mixture + deworming (Bol. Fenbendazole (7.5 mg/kg B. weight, Oral) + Concentrate feeding @ 1% body weight proved the best husbandry practices in tribal area of Dangs.

**Final recommendation for micro level situation:** $T_3$ treatment is best among $T_1$ and $T_2$

**Constraints identified and feedback for research:** Nil

**Process of farmer's participation and their reaction:** Diagnostic visit, Method demonstration, OFT visit etc

**E. Extension Activities: (December 2020 to December 2021):**

| Sr. No. | Name of activities | No. of activities | No. of participants | | |
|---|---|---|---|---|---|
| | | | Male | Female | Total |
| 1. | Lecture delivered | 206 | 4922 | 4743 | 9665 |
| 2. | Field visit | 72 | 147 | 81 | 228 |
| 3. | FLD visit | 49 | 169 | 61 | 230 |
| 4. | OFT visit | 20 | 27 | 35 | 62 |
| 5. | Scientists visit to farmers field | 38 | 85 | 58 | 143 |
| 6. | Framers visit to KVK | 14 | 749 | 755 | 1504 |
| 7. | Diagnostic visit | 73 | 116 | 50 | 166 |
| 8. | Exposure visit | 26 | 171 | 332 | 503 |
| 9. | Kisan Gosties | 10 | 373 | 128 | 501 |
| 10. | Animal Camps | 2 | 19 | 24 | 43 |
| 11. | Field day | 6 | 85 | 39 | 124 |
| 12. | Farmers fair | 2 | 117 | 48 | 165 |
| 13. | Method demonstrations | 90 | 688 | 566 | 1254 |
| 14. | Farmers Scientist interaction | 39 | 128 | 99 | 227 |
| 15. | Farmers meetings | 23 | 164 | 59 | 223 |
| 16. | TV/Film show | 49 | 1272 | 766 | 2038 |
| 17. | Exhibition | 16 | 1067 | 433 | 1500 |
| 18. | BRS students placement | 4 | 24 | 46 | 70 |
| 19. | TV, Redio talk | 4 | - | - | - |
| 20. | Farm school | 7 | 114 | 40 | 154 |
| 21. | Celebration of important Days | 49 | 2358 | 2076 | 4434 |
| 22. | Soil health camp | 1 | 27 | 8 | 35 |
| 23. | Farmers workshop, Seminar | 6 | 227 | 157 | 384 |
| 24. | Survey work | 35 | 2041 | 226 | 2267 |
| 25. | Swachh bharat abhiyan | 24 | 499 | 300 | 799 |
| 26. | Video send to Farmers mobile | 123 | 49855 | 0 | 49855 |
| 27. | Telephone helpline | 91 | 2992 | 0 | 2992 |
| **Total** | | **1079** | **68436** | **11130** | **79566** |

| Sr. No. | Name of activities | Particular |
|---|---|---|
| 1. | Soil sample analyzed | 138 |
| 2. | Water Sample Collection & Analyzed | 3 |
| 3. | Plant Health Clinic diagnostic services | 79 |
| 4. | News coverage | 226 |
| 5. | Success story | 2 |
| 6. | Popular article | 16 |
| 7. | Folder, Leaflet | 14 |
| 8. | Technical report | 357 |
| 9. | Kisan SMS/Whatsapp SMS | 354 |
| 10. | Telephone helpline | 91 (2992 farmers) |
| | **Total** | **1280** |

## F. Functional linkage with different Organization

| Name of organization | Nature of linkage |
|---|---|
| Navsari Agricultural University | Provides technical experts for various disciplines and also provides practical training to the trainees |
| Agricultural Department and Dept. of Horticulture, Ahwa | Helps in organizing the service training for VLWs, Khedut shibir and conducting sponsored training programme by receiving the grant from DAO Ahwa |
| ATMA, Dangs | Technical support, Jointly organized farmers fair |
| FTC, Dangs, Tapi | Technical support, Jointly organized farmers fair |
| District Information Department, Ahwa. | Publish the activities carried out by KVK in mass media |
| Veterinary College, NAU, Navsari, Department of Ani. Husb., Ahwa., Vasudhara Co-op. ,Dairy, Waghai | Help in organizing programmes, animal health camp, Khedut shibir *etc* |
| District Water shed Development Agency, Ahwa | Training & technical advice |
| Lotus co-op.ltd., Sevadham trust , Aghakhan NGO, Ahwa | Training & field demonstration& Technical advice |

## G. Special programmes undertaken:

| Sr. No | Title | Date | Village | Male | Female | Total |
|---|---|---|---|---|---|---|
| 1. | Constitution Day | 26-11-2020 | Waghi and other dangs village | 24 | 0 | 24 |
| 2. | World Soil Day | 05-12-2020 | Different village of dangs | 17 | 73 | 90 |
| 3. | Kishan Diwas | 23-12-2020 | Bordahal and Kumarbandh | 22 | 21 | 43 |
| 4. | National Consumer Day | 24-12-2020 | Ambapada (Aaherdi) | 14 | 11 | 25 |
| 5. | PM Kisan Sanman Nidhi | 25-12-2020 | Waghai | 100 | 43 | 143 |
| 6. | Technology week | 04/01/21 to 08/01/21 | Different villages of Dang district | 247 | 118 | 365 |
| 7. | World Women's Day | 08-03-2021 | KVK,waghai | 26 | 81 | 107 |
| 8. | World Water Day | 22-03-2021 | Gadhavi | 3 | 32 | 35 |
| 9. | World Bee Day | 20-05-2021 | waghai | 6 | 0 | 6 |
| 10. | World Milk Day | 01-06-2021 | Chichond | 10 | 11 | 21 |
| 11. | World Environment Day | 05-06-2021 | Rajendrapur | 18 | 5 | 23 |
| 12. | Jal shakti Abhiyan (Training 2, 2Awareness programme 2) | 29 May to 4 June 21 | Different village of Dangs | 15 | 30 | 45 |
| 13. | Jal shakti Abhiyan (Training 1, Awareness programme 1) | 05 June to 11 June 21 | Different village of Dangs | 10 | 25 | 35 |
| 14. | Jal shakti Abhiyan (Training 2, Awareness programme 5, No.Seed Packets distributed 40, No. Saplings distributed 240 ) | 12 June to 18 June 21 | Different village of Dangs | 67 | 115 | 182 |
| 15. | Jal shakti Abhiyan (Training 1, No.Seed Packets distributed 56, No. Saplings distributed 4136 ) | 19 June to 25 June 21 | Different village of Dangs | 22 | 64 | 86 |
| 16. | Celebrations of ICAR Foundation Day | 16-07-2021 | Gundiya | 13 | 19 | 32 |
| 17. | Jal shakti Abhiyan (Training 1) | 03 to 09 July 21 | Borpada | 50 | 23 | 73 |

| Sr. No | Title | Date | Village | Male | Female | Total |
|---|---|---|---|---|---|---|
| 18. | Jal shakti Abhiyan (Training 1, Awareness programme 2, No. Saplings distributed 260) | 10 to 16 July 21 | Different village of Dang | 27 | 9 | 36 |
| 19. | Jal shakti Abhiyan (Training 2, Awareness programme 5, No.Seed Packets distributed 40, No. Saplings distributed 200 ) | 17 to 23 July 21 | Different village of Dangs | 22 | 12 | 34 |
| 20. | Jal shakti Abhiyan (Training 1, Awareness programme 1, No. Saplings distributed 600 ) | 24 to 30 July 21 | Different village of Dangs | 18 | 4 | 22 |
| 21. | Celebrations of Parthenium awareness week | 16-22/08/2021 | Dangs district | 137 | 16 | 153 |
| 22. | Tree plantation | 23-08-2021 | KVK,Waghai | 32 | 0 | 32 |
| 23. | Van Mahotsav | 13-08-2021 | Rajendrapur farm, Waghai | 20 | 0 | 20 |
| 24. | RAWE students orientation programme, CAW, NAU, Waghai | 17-08-2021 | Waghai | 21 | 43 | 64 |
| 25. | Nutrional and food security campaign | 26-08-2021 | KVK,Waghai | 39 | 36 | 75 |
| 26. | Jal Sakti Abhiyan | 30 to 6-08-2021 | KVK,Waghai | 46 | 77 | 123 |
| 27. | Jal Sakti Abhiyan | 7 to 13-08-2021 | KVK,Waghai | 98 | 58 | 156 |
| 28. | Jal Sakti Abhiyan | 14 to 20-08-2021 | KVK,Waghai | 77 | 86 | 163 |
| 29. | Jal Sakti Abhiyan | 21 to 27-08-2021 | KVK,Waghai | 131 | 139 | 270 |
| 30. | Poshan vatika mahaabhiyaan and plantation programme | 17-09-2021 | Waghai | 131 | 63 | 194 |
| 31. | Mass Awareness Campaign for Large-Scale Dissemination of Climate Resilient Technologies and Methods | 28-09-2021 | Waghai | 48 | 71 | 119 |

| Sr. No | Title | Date | Village | Male | Female | Total |
|---|---|---|---|---|---|---|
| 32. | Jal Sakti Abhiyan | 03-09-2021 | KVK,Waghai | 61 | 140 | 201 |
| 33. | Jal Sakti Abhiyan | 09-09-2021 | KVK,Waghai | 86 | 201 | 287 |
| 34. | Jal Sakti Abhiyan | 17-09-2021 | KVK,Waghai | 67 | 157 | 224 |
| 35. | Jal Sakti Abhiyan | 24-09-2021 | KVK,Waghai | 50 | 118 | 168 |
| 36. | World Food Day | 16-10-2021 | Daguniya | 28 | 6 | 34 |
| 37. | Finger Millet Day | 25-10-2021 | Dokpatal | 18 | 47 | 65 |
| 38. | Technology week (1st Day) | 15-11-2021 | Gundiya | 72 | 14 | 86 |
| 39. | Technology week (2st Day) | 16-11-2021 | Lahandabhas | 51 | 13 | 64 |
| 40. | Technology week (3st Day) | 17-11-2021 | Chichond | 27 | 14 | 41 |
| 41. | Technology week (4st Day) | 18-11-2021 | Bhadarpada | 82 | 12 | 94 |
| 42. | Technology week (5st Day) | 19-11-2021 | Zavda | 35 | 13 | 48 |
| 43. | Technology week (6st Day) | 20-11-2021 | Bardipada | 95 | 16 | 111 |
| 44. | Jal Sakti Abhiyan | 30 to 5-11-2021 | KVK,Waghai | 33 | 7 | 40 |
| 45. | Jal Sakti Abhiyan | 6 to 12-11-2021 | KVK,Waghai | 0 | 0 | 0 |
| 46. | Jal Sakti Abhiyan | 13 to 19-11-2021 | KVK,Waghai | 28 | 2 | 30 |
| 47. | Jal Sakti Abhiyan | 20 to 26-11-2021 | KVK,Waghai | 79 | 16 | 95 |
| 48. | Jal Sakti Abhiyan | 27 to 30-11-2021 | KVK,Waghai | 17 | 1 | 18 |
| 49. | World Soil Day | 05-12-2021 | Sajupada | 18 | 14 | 32 |
| | **Total** | | | **2358** | **2076** | **4434** |

## H. Programmes undertaken by the KVK, which have been financed by State Govt. /Central Govt. or other agencies:

| Sr. No. | Name of Scheme | Budget Head | Grant Sanction (Rs.) | Expenditure up to 30st Dec-2021 (Rs.) | Available amount up to 30st Dec-2021 (Rs.) |
|---|---|---|---|---|---|
| 1. | Krushi Vigyan Kendra, Waghai | 2704/06/NF | 1,09,25,000/- | 81,99,092/- | **27,25,908/-** |
| 2. | KVKs revolving fund Waghai | 2076/14/KRF | 69,82,397/- (op.bl-21-22) | 8,97,689/- | **60,84,708/-** |
| 3. | Strengthing of testing of University technologies through Farmers field adaptive trial Phase - II | 12306-D | 2,00,000/- | 80,980/- | **1,19,020/-** |
| 4. | Atmosphere and Climate Research modeling Observing System and Services (ACROSS) | 2121-02 | 1,90,102/- | 8,37,885/- | **-6,47,783/-** |
| 5. | TSP- Mega seed project | 2068-B | - | 0/- | - |
| 6. | Cluster Frontline Demonstrations on Pulses funded under NFSM during 2019-20 | 2105-B | - | 0/- | - |
| 7. | Sub Mission on Agriculture Mechanization (SMAM) | 18136-06 | - | 0/- | - |
| 8. | Parmparagat Krishi Vikas Yojana (PKVY) | 2125-03 | - | 0/- | - |
| 9. | Implementation of Animal dieses Campaing | 2128-04 | - | 0/- | - |
| 10. | Fertilizer Aplication Awareness Campaing | 2129-03 | - | 0/- | - |
| 11. | Tree Plantation Campaing | 2130-04 | - | 0/- | - |
| 12. | Mocrobial-based Agricultural Waste Management Using Vermi Composting under (SAP) | 2132-04 | - | 0/- | - |
| 13. | KVK Repairs & Renovation and Farm Development | 18209-02 | - | 0/- | - |

**I. Details of soil & water samples analyzed:**

| Sr. No. | Period | No. of water sample | No. of soil sample | SHC issued |
|---|---|---|---|---|
| 1. | Dec-2020 to Dec-2021 | 3 | 138 | **141** |

**J. Status of revolving fund in Rs. (for the last Five years):**

| Year | Opening balance as on 1st April | Income during the year | Expenditure during the year | Net balance in hand as on 1st April of next year |
|---|---|---|---|---|
| 2017-18 | 53,50,935.00 | 5,91,533.00 | 7,49,131.00 | 71,65,449.00 |
| 2018-19 | 71,65,449.00 | 5,63,723.00 | 7,12,719.00 | 71,68,778.00 |
| 2019-20 | 71,68,778.00 | 6,93,043.00 | 5,64,369.00 | - |
| 2020-21 | 71,68,778.00 | 8,62,872.00 | 67,72,066.00 | 72,59,609.00 |
| 2021-22 | 69,82,397.00 | 2,26,158.00 | 8,97,689.00 | 63,10,866.00 |

**K.1 Performance of instructional farm (crops) including seed production (2020-21)**

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | |
|---|---|---|---|---|---|---|
| | | | | Variety | Type of Produce | Kg |
| Paddy | 20-06-20 | 01-12-20 | 2.50 | GNP 6 | Foundation seed | 4620 |
| Gram | 18-11-20 | 17-04-21 | 1.60 | GG 5 | Foundation seed | 2370 |
| Green gram | 13-02-21 | 18-04-21 | 0.80 | GM 6 | Foundation seed | 1120 |
| Turmeric | 10-06-20 | 10-04-21 | 0.15 | GNIB 1 | Truthful seed | 120 |
| Turmeric | 10-06-20 | 10-04-21 | | GNIB 2 | Truthful seed | 260 |
| Mango | | | | Kesar | -- | 250 |
| | | | | Totapuri | -- | 20 |
| | | | | Desi | -- | 100 |
| seedlings | | | - | - | | 22420 |

**K.2 Sells of NAU Product by KVK, Waghai (Dang)**

| Sr. No. | Name of the Product | Liter | Selling (Rs.) |
|---|---|---|---|
| 1. | *Pseudomonas* | 12 | 840 |
| 2. | Novel Organic liquid nutrient | 99 | 12870 |
| 3. | Brinjal seed GNRB 1 | 1 Kg | 3000 |
| 4. | Cue lure block | 40 | 1200 |
| 5. | Cue lure Trap | 117 | 8190 |
| | | **Total** | **26100** |

## L. Publications:

| I | News coverage/press released | | |
|---|---|---|---|
| **Sr. No** | **Title of news coverage** | **Name of news paper and page no** | **Date of the press released** |
| 1 | *Waghai krushi vigyan kendrana upkrame technology saptahni ujvani* | Atal sawera | 09-01-2021 |
| 2 | *kheti sathe pashupalan kari khet utpadanno kharch ghatadva khedutone margadarshan apayu* | Divya bhaskar | 10-01-2021 |
| 3 | *Waghai krushi vigyan kendrana vegyanik team dediyapada kvk ni mulakat lidhi* | Vatsalya news | 13-01-2021 |
| 4 | *Dangana khedutone navi kheti vise mahitgar karava KVK,waghai na vaigyanikoni team dediapadani mulakat* | Gandhinagar Today | 14-01-2021 |
| 5 | *Waghai vigyan kendra khate upkrame krushi mela-v-pradarshannu bhavy aayojan sampann* | Vatsalyanews | 30-01-2021 |
| 6 | *Krushi vigyan kendra waghai dwara talukana gamoma khedutone krushi vikas yojna ange mahitgar karya* | Satya De | 02-02-2021 |
| 7 | *Krushi vigyan kendra waghai dwara pashupalkone pashuoni sarsambhal rakhwa tatha dudhala pashuoni pasandagi kari swachh dudh utpadan ane kutrim bijdaanna fayda vishe samjan aapai* | Sandesh | 05-02-2021 |
| 8 | *Waghai krushi vigyan kendra khate aek ksetriy talim karykramnu aayojan karwama aavyu hatu* | Public app | 10-02-2021 |
| 9 | *VAGHAIMA WORLD VISION INDIA, Adp,Dang ane Krushi Vigyan kendra, waghai tathaa mission mangalam na sanyukt upakrame mahila dinni ujavani karavama avi* | Gandhinagar Today | 09-03-2021 |
| 10 | *VAGHAIMA WORLD VISION INDIA, Adp,Dang ane Krushi Vigyan kendra, waghai na sanyukt upakrame mahila dinni ujavani karavama avi* | Gujaratni Asmita | 09-03-2021 |
| 11 | *VAGHAIMA WORLD VISION INDIA, Adp,Dang ane Krushi Vigyan kendra, waghai tathaa mission mangalam na sanyukt upakrame mahila dinni ujavani karavama avi* | Public App | 09-03-2021 |
| 12 | *Jagli vrukshnu mahatve samjavi tena jatan vishe bhar mukayo* | Gujarat Samay | 14-05-2021 |
| 13 | *Khedutone khetpedshna sara bhav male te* | Live Gujarat News | 21-05-2021 |

| I | News coverage/press released | | |
|---|---|---|---|
| **Sr. No** | **Title of news coverage** | **Name of news paper and page no** | **Date of the press released** |
| | *mateni miting nu ayojan karvama avyu* | | |
| 14 | *Vegnanik dhabe pashupalan karvathi avak vadhe: dr. G.G.Chauhan* | Sandesh | 25-25-2021 |
| 15 | *Krishi vigyan kendra, Navsari krushi University, vaghai (Dang) drara Pashupalan, Pashuarogya visheni Pashupalakone Talim Apai* | Live Gujarat News | 25-05-2021 |
| 16 | *Navsari Krishi University drara kheduto, Grahako mate E-market place portal viksavavama avyu* | Live Gujarat News | 27-05-2021 |
| 17 | *Navsari Krishi University drara kheduto, Grahako mate E-market place portal lonch karayu* | Nyaydarshan, Waghai | 27-05-2021 |
| 18 | *Krishi vigyan kendra, Waghai (Dang) drara Pashupalan, Pashuarogya visheni Pashupalakone Talim Apai* | Sandes | 01-06-2021 |
| 19 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) Khate "Bhart Ka Amrut Mahotsav" antargat Vishv Dhudh Divasni Ujavani* | Public App | 02-06-2021 |
| 20 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara PKVY youjana antargat Waghai na daguniya game Pre Kharif Workshosopenu aayoujan* | Public App | 02-06-2021 |
| 21 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara PKVY youjana antargat Waghai na daguniya game Pre Kharif Workshosopenu aayoujan* | Public App | 03-06-2021 |
| 22 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara "Grup Dinemic" par Waghai Khate On Campuse Talimnu aayojan* | Public App | 05-06-2021 |
| 23 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara "Grup Dinemic" par Waghai Khate On Campuse Talimnu aayojan* | Public App | 05-06-2021 |
| 24 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara Kishan Goshtinu aayoujan* | Public App | 08-06-2021 |
| 25 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara Kishan Goshtinu aayoujan* | Public App | 08-06-2021 |

| I | News coverage/press released | | |
|---|---|---|---|
| **Sr. No** | **Title of news coverage** | **Name of news paper and page no** | **Date of the press released** |
| 26 | *Waghai KVK kendr dvara Kishan Goshti nu aayojan karavama aavyu* | Public App | 08-06-2021 |
| 27 | *Bhumi Suposhan Abhiyan antargat Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara samajik mudi ne galishil banavava waghai khate On Campuse Talimnu aayoujan* | Public App | 10-06-2021 |
| 28 | *Bhumi suposhan antaragat Krishi vigyan kendra, waghai (Dang) drara samajik mundi ne gatishil banavava On campuse Talim nu aayouja* | Public App | 10-06-2021 |
| 29 | *Bhumi suposhan antaragat Krishi vigyan kendra, waghai (Dang) drara samajik mundi ne gatishil banavava On campuse Talim nu aayouja* | Gujarat Raksha | 10-06-2021 |
| 30 | *Bhumi suposhan antaragat Krishi vigyan kendra, waghai (Dang) drara samajik mudi ne gatishil banavava On campuse Talim nu aayouja* | Dhabakar | 10-06-2021 |
| 31 | *Samajik mudi ne galishil banavava Dang ma On Campuse Talimnu aayoujan* | Nyaydarshan News Papar | 10-06-2021 |
| 32 | *Samajik mudi ne galishil banavava Dang ma On Campuse Talimnu aayoujan* | Public App | 10-06-2021 |
| 33 | *Bhumi suposhan antaragat Krishi vigyan kendra, waghai (Dang) drara samajik mundi ne gatishil banavava On campuse Talim nu aayouja* | Public App | 10-06-2021 |
| 34 | *Surat na yuva ane jignasu kheduto Krishi vigyan kendra, waghai (Dang) ni mukat* | Gujarat Asmita | 10-06-2021 |
| 35 | *khedutani bagayti pakoni sendriy kheti padhdhtini margdarshn apayu* | bhaskar news | 11-06-2021 |
| 36 | *Waghai KVK dvara dangana Gundiya game Khedutlakshi talim temaj input vitaran karykram yojayo* | Vatsalya News | 11-06-2021 |
| 37 | *Khedutone Bagayati pakoni sendriy kheti padhdhti nu margadarshan apayu* | Divyabhaskar News | 11-06-2021 |
| 38 | *Dang Jillana Gundiya gamama khedutlakshi temaj input vitaran karykram yojayo* | Vastsyalam Samachar | 12-06-2021 |
| 39 | *Waghai KVK dvara Bagayat, Krushi ane Pashupalan Talim yojai* | Public App | 15-06-2021 |
| 40 | *Krishi vigyan kendra, Navsari krushi University, Waghai (Dang) drara Bagayat, Krushi ane Pashupalan ni talim yojai* | Vatsalya News | 15-06-2021 |

| I | News coverage/press released | | |
|---|---|---|---|
| **Sr. No** | **Title of news coverage** | **Name of news paper and page no** | **Date of the press released** |
| 41 | *Waghai KVK kendr dvara Bagayat, Krushi ane Pashupalan ni talim yojai* | Public App | 15-06-2021 |
| 42 | *Waghai KVK kendr dvara Bagayat, Krushi ane Pashupalan ni talim yojai* | Divybhaskar News | 16-06-2021 |
| 43 | *Dang Jilla na Lhandabas gam khate Bagayat vishay talimnu aayojan karayu* | Public App | 16-06-2021 |
| 44 | *Dang jilana gundiyagam khate KVK NAU waghaina neja hethal khedutlkshi talim ane inpit vitarnnu ayojan karavama avyi.* | Gujarat sptah | 16-06-2021 |
| 45 | *Waghai najik Lahandabas khate bagayati vishayak talim yojai* | Nyaydarshan News Papar | 16-06-2021 |
| 46 | *Waghai najik Lahandabas khate bagayati vishayak talim yojai* | SV News | 16-06-2021 |
| 47 | *Lahandabas khate bagayati vishayak talim* | Sandesh News | 16-06-2021 |
| 48 | *Waghai najik Lahandabas khate bagayati vishayak kheti ange talim ayojan karayu* | Public App | 16-06-2021 |
| 49 | *Dang Jillama Bardipada gamama Khatarna Samtol upayog antargat karykramnu aayoujan* | Public App | 18-06-2021 |
| 50 | *Dang jilana bardipada gam khate khataran samtol upayog antargat karykram yojayo* | Vastsyalam Samachar | 18-06-2021 |
| 51 | *Dang Jillama Bardipada gamama Khatarna Samtol upayog antargat karykramnu aayoujan* | Divyabhaskar | 19-06-2021 |
| 52 | *Subir, Baradipada game kitune Garden parisavand karykram yojayo* | Public App | 22-06-2021 |
| 53 | *Subir, Baradipada game kitune Garden parisavand karykram yojayo* | Gujarat 24 News | 22-06-2021 |
| 54 | *Subir, Baradipada game kitune Garden parisavand karykram yojayo* | Satya News | 22-06-2021 |
| 55 | *Subir, Baradipada game kitune Garden parisavand karykram yojayo* | Vastsyalam Samachar | 22-06-2021 |
| 56 | *Dangna Panini achhatvala vistarma matala piyat padhdhati apanavo* | Divyabhaskar | 23-06-2021 |
| 57 | *Dang na Panini achhatvala vistarma matala piyat padhdhati apanavo anuraodh* | Nyaydarshan News Papar | 23-06-2021 |
| 58 | *Krushi vighan kendr waghai dvara jaivik khataro ane rogjivat ange jagruti talim yojai* | Vastsyalam Samachar | 24-06-2021 |
| 59 | *Dokpatal ane Bardipada game kvk waghai dvara khedutone aavak bamani karava ange margdarshan apayu* | Public App | 29-06-2021 |
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| 64 | *Navasari jillana pragatishil kheduto a waghai krushi vigyan kendrani mulakat lidhi* | Sandes | 06-07-2021 |
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| 194 | *krushi vigyan kendr waghai(Dang) dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi* | Public App News | 16-10-2021 |
| 195 | *krushi vigyan kendr waghai dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi* | Vatsyala News App | 16-10-2021 |
| 196 | *Ann Utpadan kshetre Bhartne Atmnirbhar banavava khedutone yogdan aapva hankal* | Divya Bhaskar News | 17-10-2021 |
| 197 | *krushi vigyan kendr waghai(Dang) dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi* | Gujarat Massege | 17-10-2021 |
| 198 | *krushi vigyan kendr waghai(Dang) dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi* | Samna Dainik | 17-10-2021 |
| 199 | *Waghai Dang khate "Vishv Ann Divas" ni ujavani karavama aavi* | Surat Mitra | 17-10-2021 |
| 200 | *krushi vigyan kendr waghai dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi* | Vastalya News | 17-10-2021 |
| 201 | *krushi vigyan kendr waghai(Dang) khate Mahila Kishan Divas ni divas Ujavayo* | Zatpat News | 17-10-2021 |
| 202 | *krushi vigyan kendr waghai dvara Daguniya gam khate "Vishv Ann Divas" ni ujavani karavama aavi* | Gujarat Massege | 17-10-2021 |
| 203 | *Krushi vigyan kendra, Waghai dvara Farm Micenaisation Vishay talim aapava ma aavi* | Gujarat Massege | 19-10-2021 |
| 204 | *Krushi vigyan kendra, Waghai dvara Farm Micenaisation Vishay talim aapava ma aavi* | Vatsyala News App | 19-10-2021 |
| 205 | *Farm Micenaisation Vishay par balakkone mahtv samajavava waghai krushi vigyan kenda ye talim aapi* | Divya Bhaskar News | 20-10-2021 |

| I | News coverage/press released | | |
|---|---|---|---|
| **Sr. No** | **Title of news coverage** | **Name of news paper and page no** | **Date of the press released** |
| 206 | *Balakkone aadhunik kheti bhimukh banavava Farm Micenaisationni talim kam mahiti* | Nayan Darshan | 20-10-2021 |
| 207 | *Krushi vigyan kendra, Waghai dvara Farm Micenaisation Vishay talim aapava ma aavi* | Vastalya News | 20-10-2021 |
| 208 | *waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay* | Divya Bhaskar News | 23-10-2021 |
| 209 | *Dang khate fal tatha sahakbhaji pakona mulyvardhan ange talim* | Nayan Darshan | 23-10-2021 |
| 210 | *Krushi vigyan kendra, Wagtail(Dang) ane bagayat vibhag dang dvara fal tatha shakbhaji pakona mulyavardhan ange talim apai* | Sandesh News | 23-10-2021 |
| 211 | *Krushi vigyan kendra, Wagtailkahte fal tatha shakbhaji pakona mulyavardhan ange talim apai* | Public App News | 23-10-2021 |
| 212 | *waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay* | Dhunt App News | 23-10-2021 |
| 213 | *Krushi vigyan kendra, Wagtail(Dang) ane bagayat vibhag dang dvara fal tatha shakbhaji pakona mulyavardhan ange talim apai* | Guarat Massage App | 23-10-2021 |
| 214 | *waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay* | Public App News | 23-10-2021 |
| 215 | *Krushi vigyan kendra, Wagtail khaate fal tatha shakbhaji pakona mulyavardhan ange talim apai* | Public App News | 23-10-2021 |
| 216 | *Krushi vigyan kendra, Wagtail(Dang) ane bagayat vibhag dang dvara fal tatha shakbhaji pakona mulyavardhan ange talim apai* | You Tube Chenal | 23-10-2021 |
| 217 | *waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay* | Gujarat Raksha | 25-10-2021 |
| 218 | *waghai kvk ma aarogyprad vanagi banavavano aagrah rakava samaj apay* | Sandesh News | 25-10-2021 |
| 219 | *Chichond gam khate "prakrutik kheti padhdhti" vishay pr talim yojai* | Nayan Darshan | 30-10-2021 |
| 220 | *Krushi vingyan kendr N.K.U. Wagtail dvara lahandhabas temaj bardipada khate technology saptahani ujavani karava ma aavi* | Public App News | 20-11-2021 |
| 221 | *Wagtai krushi vingyan kendr khaate techonology saptahni ujavani karavama aavi* | Dhabakar News | 20-11-2021 |

| I | News coverage/press released | | |
|---|---|---|---|
| **Sr. No** | **Title of news coverage** | **Name of news paper and page no** | **Date of the press released** |
| 222 | *Dnagana 375 kheduto krushini aadhunik takanik na prayogoma safal* | Divya Bhaskar News | 21-11-2021 |
| 223 | *Dnaga jillama krushini navi technology ange jan jagruti abhiyan hat harayu* | Gujarat Gurdian | 21-11-2021 |
| 224 | *Krushi vigyan kendr N.K.U. waghai dvara technology saptahani ujavani karava ma aavi* | Vatsyala Samachar | 21-11-2021 |
| 225 | *Dang jillana khedutone krushini navin takanikio vishe mahitgar karaya* | Nayan Darshan | 22-11-2021 |

## M. Workshop/ seminar /conference/meetings attended by KVK staff (2020-21):

| Sr. No | Date | Title | Type | Place |
|---|---|---|---|---|
| 1 | 12-01-2021 | Interface meeting with KVK dediyapada | Meeting | KVK, Dediyapada |
| 2 | 13-01-2021 | KVK-ATMA conversation meeting | Meeting | ATIK, NAU, Navsari |
| 3 | 11-01-2021 | AGB meeting | Meeting | Ahwa, Dang |
| 4 | 13-01-2021 | Conversation meeting with ATMA & other agency | Meeting | Navsari |
| 5 | 25-01-2021 | Training with farmers -Sevadham Ahwa | Training | Ahwa, Dang |
| 6 | 06-02-2021 | Training- Zonal officer | Election meeting | Auditoreum, COA,waghai |
| 7 | 11-02-2021 | Meeting - Zonal Officer | Election meeting | mamlatdar office, waghai |
| 8 | 21-02-2021 | Training- Zonal officer | Election meeting | Auditoreum, COA,waghai |
| 9 | 23-02-2021 | Election vote counting meeting | Election vote counting meeting | mamlatdar office, waghai |
| 10 | 18,19-02-2021 | 17th PPSC Meeting | Agresco | Online |
| 11 | 24-02-2021 | 17th PPSC Meeting | Agresco | Online |

| Sr. No | Date | Title | Type | Place |
|---|---|---|---|---|
| 12 | 11-02-2021 | AGRESCO- Animal production | Online meeting | N.A.U |
| 13 | 23-02-2021 | AGRESCO- Animal Health | Online meeting | N.A.U |
| 14 | 22-02-2021 | Meeting of 17th AGRESCO of social science group | Meeting | Vartual mode |
| 15 | 18-02-2021 | State Level Annual Action Plan Workshop of KVKs of Gujarat | Workshop | Vartual mode |
| 16 | 01-03-2021 | Election vote counting | Meeting | Mamlatdar office Waghai |
| 17 | 03,04-03-2021 | Leadership development and team building skill for extension functionaries | Workshop | Online |
| 18 | 5,6-03-2021 | NRM AGRESCO subcommittee | Meeting | Online |
| 19 | 03,04-03-2021 | Leadership development and team building skill for extension functionaries | Workshop | Online |
| 20 | 09-03-2021 | AGRESCO- Animal production | Online meeting | N.A.U |
| 21 | 03,04-03-2021 | Leadership development and team building skill for extension functionaries | Workshop | Online |
| 22 | 3,4,5-03-2021 | Horticulture & Forestry AGRESCo subcommittee | meeting | Vivekanand hall, Navsari |
| 23 | 5,6-03-2021 | NRM AGRESCO subcommittee | meeting | Online mode |
| 24 | 03,04-03-2021 | Leadership development and team building skill for extension functionaries | Workshop | Online |
| 25 | 25-03-2021 | KVK meeting for selection of operational village | Meeting | KVK, Waghai |
| 26 | 23-04-2021 | Dharti mari mata | webinar | Online |
| 27 | 23-04-2021 | Dharti mari mata | webinar | Online |
| 28 | 30-04-2021 | Gopalan thaki Bhumisuphoshan | Webinar | Online |
| 29 | 30-04-2021 | Basics of IPR management | Webinar | Online |
| 30 | 07-04-2021 | KVK review meeting | meeting | KVK,Waghai |

| Sr. No | Date | Title | Type | Place |
|---|---|---|---|---|
| 31 | 23-04-2021 | Dharti mari mata | webinar | Online |
| 32 | 25-04-2021 | Orientation training programme for Newly Recruited Subject matter Specialists of KVKs | Training (Online) | Online (Organized by ATARI, Pune and AAU, Anand) |
| 33 | 10-05-2021 | KVK review meeting | Meeting | KVK,Waghai |
| 34 | 11-05-2021 | Value addition in mango | Webinar | Online (Organized by PHT, NAU, Navsari) |
| 35 | 15-05-2021 | FPO and Scientific cultivation of bamboo | Workshops | Online (Organized by KVK, NAU, Navsari) |
| 36 | 29-05-2021 | Aquatic weed: problems and their management for improving water productivity | Webinar | Online (Organized by ISWS and DWR, MP) |
| 37 | 01-05-2021 | Impact of CIVID 19 on aspect of Organic farning, Soil Health and Food security organized by JUST Agriculture & UIAS, Chandigadh university | Webinar | Online |
| 38 | 14-05-2021 | Azadi ka Amrit mahotsav | Workshop | Online |
| 39 | 13-05-2021 | Online workshop programme with colloboration of Forest department, Vansda under Azadi ka amrut mahotsav | Workshop | Online |
| 40 | 26-05-2021 | Digital marketing | Training | Online platform |
| 41 | 29-06-2021 | Farm Review of five KVK's of NAU | Meeting | online |
| 42 | 21-06-21 to 24-06-21 | KVK review meeting | Meeting | KVK waghai |
| 43 | 30-06-2021 | Combined AGRESCO Horticulture | Meeting | Online |

| Sr. No | Date | Title | Type | Place |
|---|---|---|---|---|
| 44 | 08-07-2021 | Benifesial famr tools for dang disrtrict | Meeting | Suruchi, Bardoli |
| 45 | 16-07-2021 | Marketing of organic products of dang | Meeting | KVK Waghai |
| 46 | 26-07-2021 | Meeting after the soil survey done by ICAR- NBSS & LUP) | Meeting | KVK,waghai |
| 47 | 19-07-2021 to 21-07-2021 | international conference on "Innovative and current Advances in Agriculture & Allied Sciences" | International Conference | Online |
| 48 | 03-07-2021 | Prakrutik kheti and not use of synthetic chemical | Meeting | Collector office, Ahwa, Dang |
| 49 | 04 to 06-08-2021 | Annual zonal workshop of KVKs of Maharastra, Gujarat & Goa | Workshop | Online |
| 50 | 26-08-2021 | Orientation programme under GKMS for the nodal officer | Training | Online |
| 51 | 11-08-2021 | Meeting on DFI success story | Meeting | Online mode |
| 52 | 24-08-2021 | Farmers meet programme | meeting | Online mode |
| 53 | 09,10 & 11 | Mushroom training | Training | Online |
| 54 | 13-09-2021 | KVK review meeting | Meeting | KVK Waghai |
| 55 | 23,24,25-09-2021 | Capacity building workshop | Workshop | Poicha, Vadodara |
| 56 | 23,24,25-09-2021 | Capacity building workshop | Workshop | Poicha, Vadodara |
| 57 | 23,24,25-09-2021 | Capacity building workshop | Workshop | Poicha, Vadodara |
| 58 | 23,24,25-09-2021 | Capacity building workshop | Workshop | Poicha, Vadodara |
| 59 | 08-10-2021 | Prakrutik krushini talim ane nirdarshn nu ayojan karva babat | Meeting | Online |
| 60 | 27-10-2021 | Review meeting | Meeting | KVK, Waghai |
| 61 | 20-10-2021 to 22-10-2021 | Recent Extension Approaches for Effective Transfer of Technologies" jointly organized by DEE, NAU, Navsari and EEI, AAU, Anand | Training | ATIC, Navsari |

| Sr. No | Date | Title | Type | Place |
|---|---|---|---|---|
| 62 | 27-10-2021 | Review meeting | meeting | KVK,waghai |
| 63 | 20,21 & 22-10-2021 | Recent extention approaches for effective transfer of technology | Training | ATIC, NAU, Navsari |
| 64 | 04-10-2021 | Gujarat ma sendriy kheti ni safar | Jagruti karykram | ASPEE,NAU, Navsari |
| 65 | 20-22/10/2021 | Recent Extension Approaches for effective transfer technologies | Training | NAU, Navsari |
| 66 | 08-10-2021 | Prakrutik krushini talim ane nirdarshn nu ayojan karva babat | Meeting | Online |
| 67 | 18-10-2021 | Natural farming meeting | Meeting | Raj bhavan, Gandhinagar |
| 68 | 20 to 22-10-2021 | Recent extension approchise for effective transfer of technology | Training | ATIC, NAU, Navsari |
| 69 | 27-10-2021 | Review meeting | Meeting | KVK, Waghai |
| 70 | 19-11-2021 | KVK Review meeting | Meeting | Waghai |
| 71 | 26-11-2021 | Celebration of National Milk day at ICAR-NDRI, Karnal | Meeting | Online |
| 72 | 19-11-2021 | KVK revie meeting | Meeting | KVK, NAU, Waghai |
| 73 | 23-11-2021 | ATMA conversation meeting | Meeting | ATIC, NAU, Navsari |
| 74 | 17-11-2021 | Pre seasonal workshop | Workshop | ATIC, NAU, Navsari |
| 75 | 19-11-2021 | Loanching program about Apdu Dang Prakritik Dang | Farmer Fair | Police pared ground, Ahwa |
| 76 | 09-12-2021 | KVK Review meeting | Meeting | Waghai |
| 77 | 25 to 27-12-2021 | Workshop on Subhash Palekar Natural Farming | Workshop | Dandi, Navsari |
| 78 | 26-11-2021 to 02-12-2021 | Natural farming | Workshop | Adalaj, ahmedabad |
| 79 | 30-12-2021 | Maintenance of quality and safety of horticultural and food crops through biological control of pests and diseases | Seminar | NAU, Navsari |
| 80 | 09-12-2021 | KVK, Review meeting | Meeting | KVK, Waghai |

## N. Administration and staff position as on 31-12-2021:

| Sr. No. | Sanctioned post | Name of the incumbent | Discipline | Pay Scale (Rs.) | Grade Pay | Date of Joining | Please attach recent photograh |
|---|---|---|---|---|---|---|---|
| 1. | Senior Scientist & Head | Dr. G.G.Chauhan | Extension Education | 131400-217100 | -- | 26-08-2019 |  |
| 2. | Scientist(1) | Dr. J.B.Dobariya | Extension Education | 57700-182400 | -- | 20.08.2015 |  |
| 3. | Scientist(2) | Dr. P.P.Javiya | Crop Production | 57700-182400 | -- | 27-08-2019 |  |
| 4. | Scientist(3) | Mr.H.A.Prajapati | Horticulture | 57700-182400 | -- | 13.02.2017 |  |
| 5. | Scientist(4) | Dr. S.A.Patel | Animal Science | 57700-182400 | -- | 27-08-2019 |  |
| 6. | Scientist(5) | Mr. B.M.Vahunia | Plant Protection | 57700-182400 | -- | 28-08-2019 |  |
| 7. | Scientist(6) | Vacant | - | - | - | - | - |
| 8. | Farm Manager | Mr. R.S.Patel | - | 39900-126600 | - | 08-03-2019 |  |

| Sr. No. | Sanctioned post | Name of the incumbent | Discipline | Pay Scale (Rs.) | Grade Pay | Date of Joining | Please attach recent photograh |
|---|---|---|---|---|---|---|---|
| 9. | Computer Programmer | Mr. T.R.Ahir | - | 39900-126600 | - | 20-08-2020 |  |
| 10. | Programme Assistant | Mr. K.V.Patel | - | 39900-126600 | - | 24-9-2015 |  |
| 11. | Accountant / superintendent | Vacant | - | 39900-126600 | - | - | - |
| 12. | Stenographer | Vacant | - | 5200-20200 | - | - | - |
| 13. | Driver 1 | Vacant | - | 5200-20200 | - | - | - |
| 14. | Supporting staff 1 | Vacant | - | 4440-7440 | - | - | - |
| 15. | Supporting staff 2 | Mr. D. N. Parmar | - | 14800-47100 | - | 01.08.2011 |  |

## 20.3. Budget information 2021-22 (B.H.: 2704-06) (Rs.)

| Sr. No. | Particulars | Sanctioned | Expenditure |
|---|---|---|---|
| **1.1** | **Recurring Contingencies** | | |
| I | **Pay & Allowances** | **91.25** | **79,67,695** |
| II | **Traveling allowances** | | **36,353** |
| III | **Contingencies** | | |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance | | |
| B | POL, repair of vehicles, tractor and equipments | | |
| C | Meals/refreshment for trainees | | |
| D | Training material | | |
| E | Frontline demonstration except oilseeds and pulses | **18.00** | **11,01,821** |
| F | On farm testing | | |
| G | Training of extension functionaries | | |
| H | Maintenance of buildings | | |
| I | Establishment of Soil, Plant & Water Testing Laboratory | | |
| J | Library | | |
| | **Total Recurring** | **109.25** | **91,05,869** |
| **1.2** | **Non-Recurring Contingencies** | | |
| I | **Works** | - | - |
| II | **Equipments including SWTL & Furniture** | - | - |
| III | **Vehicle** (Four wheeler/Two wheeler, please specify), | - | - |
| IV | **Library** | - | - |
| | **Total Non Recurring** | - | - |
| **1.3** | **TSP(Farm Development)** | - | - |
| **1.4** | **GRAND TOTAL (1.1+1.2+1.3)** | **109.25** | **91,05,869** |

# ANNUAL ACTION PLAN –2022

## 20.4. Operational villages:

| Taluka | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---|---|---|---|---|---|
| Ahwa Subir Waghai | Ahwa | Lahandabash Gundiya Sati | **Cereals:** Paddy, Finger millet, little millet<br>**Pulses:** Gram, Black gram, Pigeon pea<br>**Oilseeds:** Groundnut, Niger<br>**Vegetables:** Okra Fruit<br>**crops:** Mango, Custard apple Floriculture: Rose and Marigold<br>**Others:** Tuber crops<br>**Animal Husbandry** | - Use of traditional varieties<br>- Poor quality of seed<br>Improper use of fertilizers- Lack of awareness about plant protection measures<br>-Scarcity of fodder<br>- Repeat Breeding and Anoestrus<br>-Less interest in dairy business | -Promoting Animal husbandry./ horticulturalcrops<br>-Use of recommended varieties<br>-Promotion ofscientific package of practices<br>-Create awareness about plant protectionmeasures<br>- Scientific feedingmanagement<br>- ArtificialInseminatio n Awareness about dairy enterprise |
| | Subir | Sajupada Bardipada Dhuldha | | | |
| | Waghai | Zavada Vankan Chichond Bhadarpada | | | |

## 20.4.1. Training Programme

### i. On & off campus trainings:

| Discipline | On Campus Trainings | | | | Off Campus Trainings | | | | GT |
|---|---|---|---|---|---|---|---|---|---|
| | I | II | III | IV | I | II | III | IV | |
| 1. Crop Production | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | **8** |
| 2. Horticulture | - | 2 | 1 | - | - | 3 | 1 | - | **7** |
| 3. Plant Protection | 1 | 1 | 1 | - | - | 1 | 1 | 1 | **6** |
| 4. Animal Science | 1 | 1 | 2 | - | - | 1 | 2 | 1 | **8** |
| 5. Home Science | 1 | 1 | - | - | 1 | 1 | - | - | **4** |
| 6. Extension Education | - | - | 1 | 1 | - | 1 | 1 | - | **4** |
| **Total** | **4** | **6** | **6** | **2** | **2** | **8** | **6** | **3** | **37** |

## Title of the training programme (On Campus)

| Sr. No. | Title of the training programme | Duration in days | Number of Participants | | |
|---|---|---|---|---|---|
| | | | M | F | T |
| **Crop Production** | | | | | |
| 1. | Natural farming in summer green gram | 04 | 10 | 15 | 25 |
| 2. | Seedling preparation of paddy through raise bad | 01 | 10 | 15 | 25 |
| 3. | Importance of green manuring | 01 | 10 | 15 | 25 |
| 4. | Natural farming in gram | 01 | 10 | 15 | 25 |
| **Horticulture** | | | | | |
| 5. | Scientific cultivation of okra | 04 | 15 | 10 | 25 |
| 6. | Scientific cultivation of Bitter gourd | 04 | 15 | 10 | 25 |
| 7. | Scientific cultivation of Indian bean | 04 | 15 | 10 | 25 |
| **Animal Science** | | | | | |
| 8. | System of calf feeding & calf management | 03 | 15 | 10 | 25 |
| 9. | Clean Milk production | 04 | 15 | 10 | 25 |
| 10. | Nutrition management of livestock production | 04 | 15 | 10 | 25 |
| 11. | Care & Management of Milch animal in summer season | 04 | 15 | 10 | 25 |
| **Home Science :** | | | | | |
| 12. | Value addition of Finger millet (Ragi) | 01 | 05 | 20 | 25 |
| 13. | Pregnant and lactating mothers diet | 01 | 05 | 20 | 25 |
| **Plant Protection** | | | | | |
| 14. | Preparation of Bio pesticides | 04 | 13 | 12 | 25 |
| 15. | Bee-keeping | 04 | 13 | 12 | 25 |
| 16. | Pest & Disease management in kharif crop | 04 | 13 | 12 | 25 |
| **Extension Personnel** | | | | | |
| 17. | Importance of natural farming | 04 | 15 | 10 | 25 |
| 18. | Market Led Extension (MLE) | 04 | 15 | 10 | 25 |

**Title of the training programme (Off Campus)**

| Sr. No. | Title of the training programme | Duration in days | Number of Participants | | |
|---|---|---|---|---|---|
| | | | M | F | T |
| **Crop Production** | | | | | |
| 1. | Weed management in summer crops | 01 | 15 | 15 | 30 |
| 2. | Use of Bio fertilizer in kharif crop | 01 | 15 | 15 | 30 |
| 3. | Indigent management of kharif crop through organic fertilizer | 01 | 15 | 15 | 30 |
| 4. | Importance of Natural farming | 04 | 15 | 15 | 30 |
| **Horticulture** | | | | | |
| 5. | Scientific cultivation of greater yam | 04 | 10 | 15 | 25 |
| 6. | Scientific cultivation of Strawberry | 01 | 15 | 15 | 30 |
| 7. | Natural farming in elephant foot yam | 04 | 15 | 15 | 30 |
| 8. | Natural farming in Mango | 04 | 15 | 15 | 30 |
| **Animal Science** | | | | | |
| 9. | Care & management of pregnant cows | 04 | 15 | 15 | 30 |
| 10. | Feed & fodder management of livestock | 03 | 15 | 15 | 30 |
| 11. | Artificial insemination in Cow & Buffalo | 04 | 15 | 15 | 30 |
| 12. | Profitable diary farming Azzola production & management | 03 | 15 | 15 | 30 |
| **Home Science** | | | | | |
| 13. | Importance of Vegetables & Fruits | 01 | 15 | 15 | 30 |
| 14. | Kitchen gardening | 01 | 15 | 15 | 30 |
| **Plant Protection** | | | | | |
| 15. | Role of Bio pesticides in IPDM | 04 | 15 | 15 | 30 |
| 16. | IPDM in Rabi crops | 04 | 15 | 15 | 30 |
| 17. | Disease management in Pigeon pea | 04 | 15 | 15 | 30 |
| **Extension Personnel** | | | | | |
| 18. | Process of preparation of farmer produce group | 04 | 15 | 15 | 30 |
| 19. | Adoption and impact of new natural farming technology | 04 | 15 | 15 | 30 |

**ii. Sponsored trainings:**

| Discipline | Title | No. of courses | Sponsoring Agency |
|---|---|---|---|
| Crop production | Natural farming of kharif & Rabi crops | 04 | NGOs, ATMA, FTC, DWDU, NYC, etc |
| Horticulture | Scientific cultivation of horticultural crops | 04 | |
| Plant protection | Integrated pest & disease Management | 04 | |
| Animal Science | Dairy farming & Animal health | 04 | |
| Extension Education | Integrated farming system by use of Natural material | 04 | |
| **Total** | | **20** | |

**iii. Vocational trainings:**

| Discipline | Identified Thrust Area | Training title | Month | Duration | SC/ST participants | | |
|---|---|---|---|---|---|---|---|
| | | | | | M | F | T |
| Crop Production | Production of Owen seed | Seed production technology | Dec-22 | 05 | 10 | 15 | 25 |
| Horticulture | Reduction of chemical pesticide and Fungicide, Fertilizer Intrigue the use of botanical pesticide and natural farming | Preparation of Jivamrut, Ghanjivamrut, Brahmastra, Nimastra, Dasparni arka. | April/ May -22 | 05 | 15 | 10 | 25 |
| Plant Protection | Skill training | Preparation of Bio pesticide | Dec- 22 | 05 | 10 | 15 | 25 |
| Animal Science | Income generation by imparting skill training | Backyard Poultry farming | Dec-22 | 04 | 15 | 10 | 25 |

**iv. Training Programmes for Panchayatiraj institutions/Office-bearers & members/ In-service trainings:**

| Approximatery Date | Clientele | Title of the training programme | Duration | Number of Participants | | |
|---|---|---|---|---|---|---|
| | | | | M | F | T |
| Oct-22 | Line department, ATMA, Non-Governmental Organizations (NGOs), Agricultural Consultancies (ACs) , Supervisors, Members of SHGs & APMC etc. | Prevention & Control of Zoonotic diseases | 01 | 15 | 10 | 25 |
| Dec.-22 | | Natural farming | 01 | 15 | 10 | 25 |
| Nov-22 | | Cyber Extension of e-extension | 02 | 15 | 10 | 25 |

**20.4.2. Demonstrations (FLDs):**

| Sr. No. | Crop | Variety/ particulars | Technology for demonstration | Critical inputs with cost (Rs.) | Season and year | Area (ha) | No. of farmers / Demon. |
|---|---|---|---|---|---|---|---|
| 1. | pigeon pea | GT 105 | New variety | Seeds, Novel, Bio fertilizer Rs. 700 | Kharif, 2022-23 | 5.0 | 25 |
| 2. | Paddy | GR 17 | New variety | Seeds, Novel, Bio fertilizer Rs. 500 | Kharif, 2022-23 | 5.0 | 25 |
| 3. | Finger millet | GNN 6 | New variety | Seeds, Novel, Bio fertilizer Rs. 500 | Kharif, 2022-23 | 5.0 | 25 |
| 4. | Little millet | GNV 3 | New variety | Seeds, Novel, Bio fertilizer Rs. 500 | Kharif, 2022-23 | 5.0 | 25 |
| 5. | Green gram | GNM 6 | New variety | Seeds, Novel, Bio fertilizer Rs. 1350 | Rabi, 2022-23 | 5.0 | 25 |
| 6. | Gram | GJG 3 | New variety | Seeds, Novel, Bio fertilizer Rs. 1350 | Rabi, 2022-23 | 5.0 | 25 |
| 7. | Okra | Novel & Biofertilizers | Novel 8 Bio fertilizer | Inpus, Rs. 11000(2 lit. Novel & 1 lit. Azo.,PSB and KMB) | Rabi, 2022-23 | 2.5 | 25 |
| 8. | Bittergourd | Novel & Biofertilizers | Novel 8 Bio fertilizer | Input, Rs. 11000(2 lit. novel & 1 lit. Azo.,PSB and KMB) | Late kharif-Rabi, 2022-23 | 2.5 | 25 |
| 9. | Mango | Sonpari/Kesar | Graft | Graft, NOLF & Bio-fertilizer Rs. 30,000/- | kharif 2022 | 3.0 | 30 |
| 10. | Indian bean | GNIB 22 | Seed | Seeds, Novel, Bio fertilizer Rs. 35000 | Rabi 2022-23 | 2.5 | 25 |
| 11. | Paddy | Pheromone trap | IPM | Pheromone trap, Rs.5000 | Kharif, 2022 | 5.0 | 25 |
| 12. | Finger millet | Pseudomonas | IDM | Pseudomonas Rs. 5000 | Kharif, 2022 | 5.0 | 25 |
| 13. | Mango | Fruit Fly trap | IPM | Fruit Fly trap Rs. 4500 | Summer 2022 | 5.0 | 25 |
| 14. | Bittergourd | Cue lure Trap | IPM | Fruit fly trap, Rs. 5500 | Rabi 2022 | 5.0 | 25 |
| | | **Total** | | | | **60.5 ha** | **355** |

## Details of FLD on Enterprises

**a. Livestock Enterprises**

| Enterprise | Breed | No. of farmers | No. of animals, poultry birds /ha. etc. | Critical inputs with cost (Rs.) | Performance parameters / indicators |
|---|---|---|---|---|---|
| Sorghum | GFS 5/CSV 21 F/GFS6/GFS7 | 20 | 5.0 ha | Seed Rs. 20000 | Yield (Q/ha) |
| Livestock | Mineral mixture | 30 | 30 Units | Mineral mixture Rs. 20000 | Milk production (Lit) |
| Backyard poultry | RIR | 20 | 20 unit | Birds 25000/- | Egg production |
| | **Total** | **70** | **5.0 ha & 50 unit** | | |

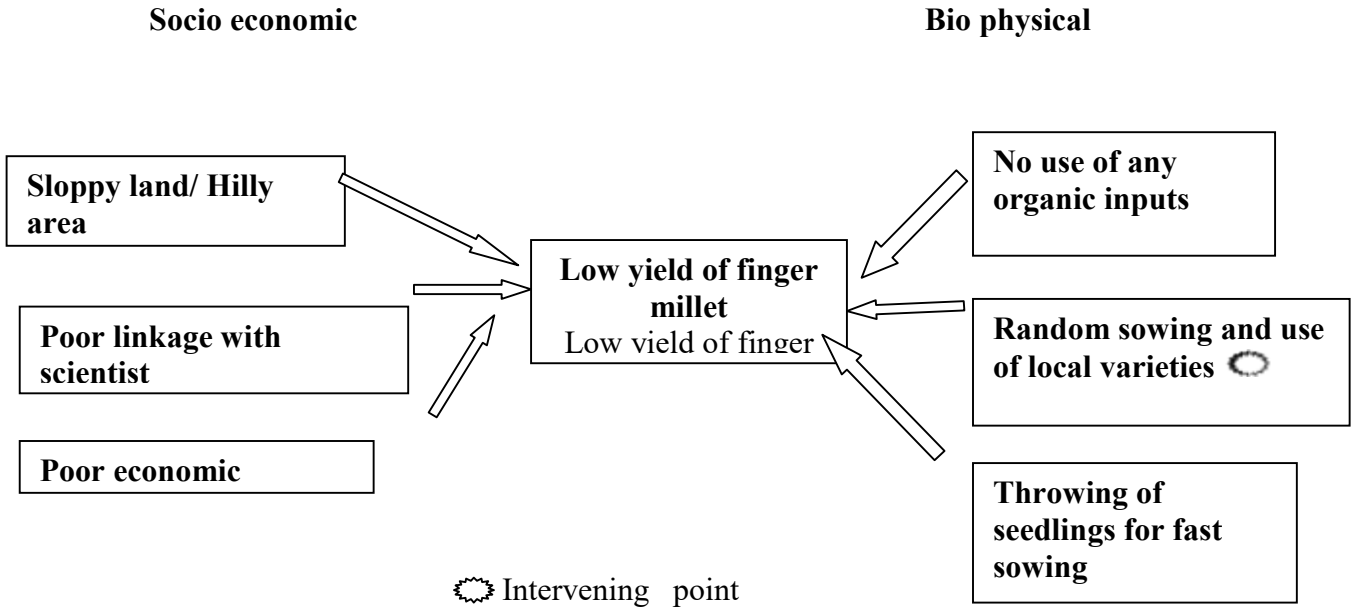
## 20.4.3 On Farm Testing: (3 new started)

**OFT-1:**

**Title: Varietal evaluation of finger millet**

Finger millet is a main staple food for tribal farmers of Dang district and also it emerging as a important nutritive cereal crop due to its high nutrient content. In Dang district, finger millet is normally grown on poor and marginal soils with local varieties. Finger millet requires healthy seedlings of high yielding varieties. Most of the farmers use local varieties of finger millet which reduce the number of productive tillers, small seeded less finger and susceptible to pest and diseases, so ultimately its reduce the crop yield.

**Problem:** See the problem cause diagramme



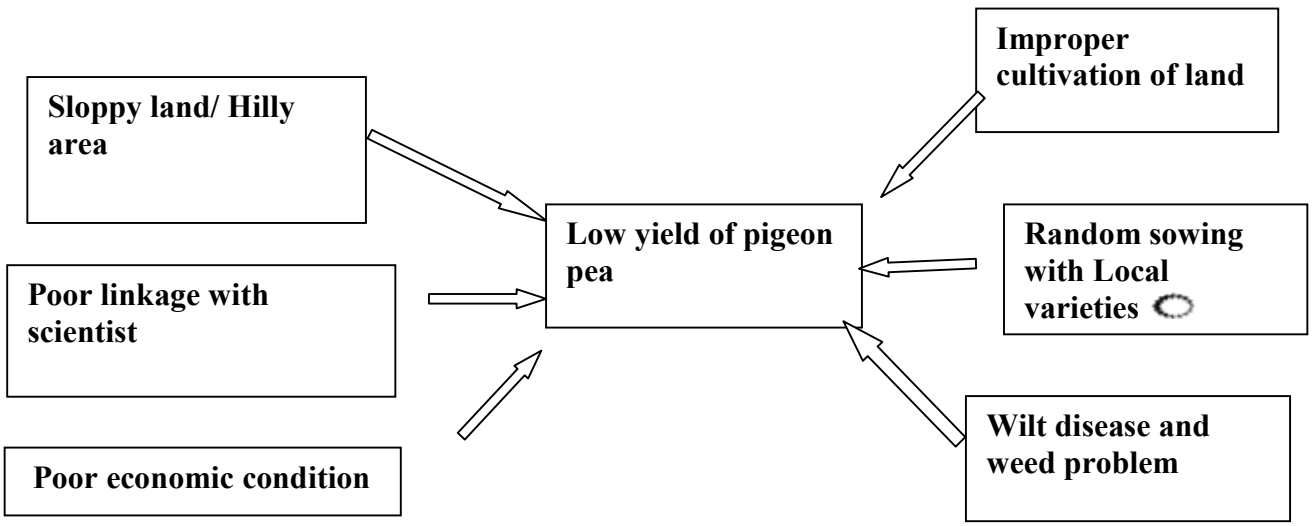
| | | |
|---|---|---|
| **1** | **OFT Title** | Varietal evaluation of finger millet |
| **2** | **Prioritized problem** | Use of local varieties |
| **3** | **Technology Assessed** | $T_1$ : Farmers Practices (Local varieties)<br>$T_2$ : GNN 6<br>$T_3$ : CFMV 2 (Gira) |
| **4** | **Variety** | As per treatment |
| **5** | **Seed rate** | 5 kg per ha |
| **6** | **Season** | *Kharif* – 2022 to 2024 |
| **7** | **No. of trials** | 10 |
| **8** | **Total area of OFT** | 3.0 ha |
| **9** | **Observation to be studied** | Yield (kg/ha) |
| **10** | **Source of Technology** | Hill Millet Research Station, NAU, Waghai |
| **11** | **Name of critical input** | Seed, Novel organic fertilizer, PSB and *Azotobacter* |
| **12** | **Appro. Cost per OFT** | 500/- |

**OFT-2:**

**Title: Varietal evaluation of chickpea**

In dang district, productivity of chickpea is low because of improper cultivation of land and use of local varieties by farmers. Due to this severe wilt problem in local varieties which ultimately affect the growth and yield of chickpea. Chickpea required wilt resistance and high yielding variety for its better growth and development. Improper cultivation with local varieties reduce the plant population and ultimately it's reduce the crop yield.

**Problem:** See the problem cause diagramme




Intervening point

| | | |
|---|---|---|
| **1** | **OFT Title** | Varietal evaluation of chickpea |
| **2** | **Prioritized problem** | Use of local varieties |
| **3** | **Technology Assessed** | $T_1$: Farmer variety (Local Varieties)<br>$T_2$: GJG 3<br>$T_3$: GG 5 |
| **4** | **Variety** | As per treatment |
| **5** | **Seed rate** | 60 kg per ha |
| **6** | **Season** | *Kharif* – 2022 to 2024 |
| **7** | **No. of trials** | 10 |
| **8** | **Total area of OFT** | 3.0 ha |
| **9** | **Observation to be studied** | Yield (kg/ha) |
| **10** | **Source of Technology** | Pulse Research Station, JAU, Junagadh |
| **11** | **Name of critical input** | Seed, Novel organic fertilizer, *Rhizobium* and PSB |
| **12** | **Appro. Cost per OFT** | 1500/- |

**OFT-3:**

**Title: Varietal assessment of Indian bean in the Dangs (Assessment)**

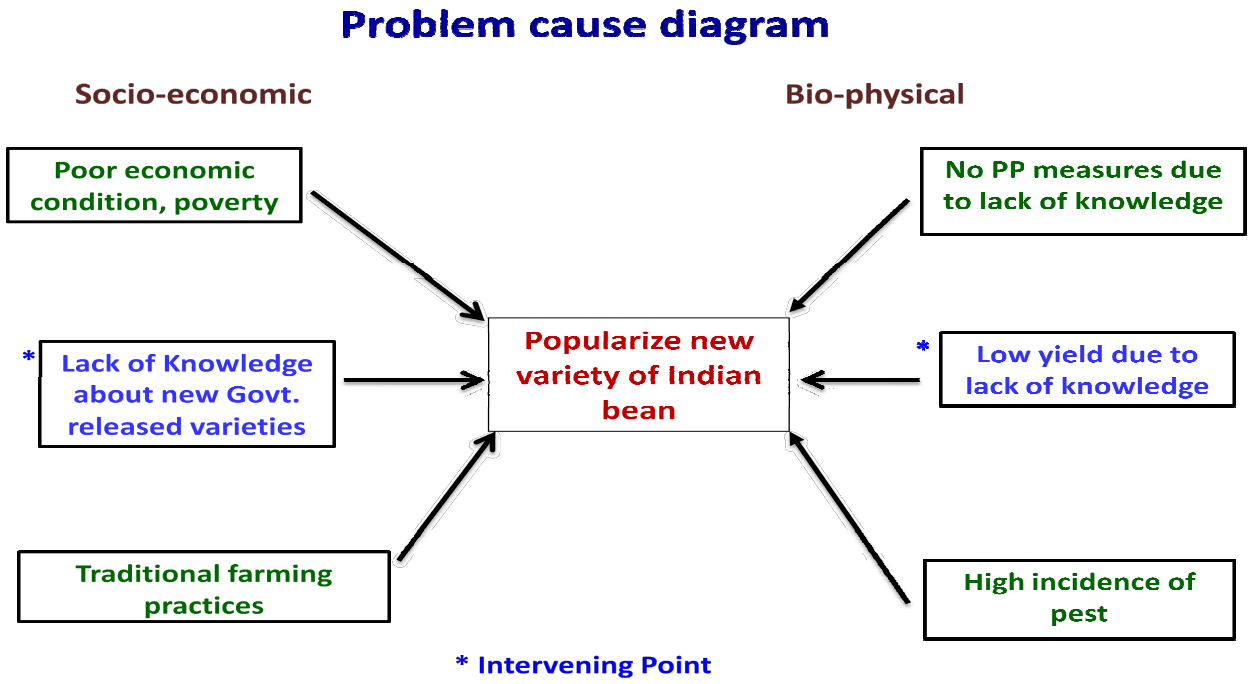
**Background:**

In the Dangs district, mostly Desi (Katargam) and other indeterminate variety of Indian bean is grown with low yield potential due to lack of knowledge about proper scientific cultivation and lack of knowledge about new released variety of State Agricultural Universities and Government Institutions.

GNIB 22 (>30.00 Q/ha) performed well under South Gujarat regions. This variety is Extra early, determinate,erect and dwarf plant type suitable as intercrop inSugarcane, pigeon pea.

GNIB 22 (>40.00 Q/ha) performed well under South Gujarat regions. This variety is The variety is early, determinate and erect type with good market & cooking quality and yield, hence it is highly acceptable to the farmers and consumers. Its green pod fetches similar price to that of surti papadi.

OFT has been framed for comparing farmer adopted Desi (Katargam)variety to "GNIB-21" and "GNIB 22" variety.



| | | |
|---|---|---|
| **1** | **OFT Title** | Varietal assessment of Indian bean in the Dang District |
| **2** | **Prioritized problem** | Low yield of Farmers variety (due to lack of knowledge about proper scientific cultivation method and lack of knowledge about new released variety of State Agricultural Universities and Government Institutions.) |
| **3** | **Technology Assessed** | $T_1$: Farmers practices (Katargam)<br>$T_2$: GNIB 21 (2014)<br>$T_3$: GNIB 22 (2017) |
| **4** | **Variety** | "Gujarat Navsari Indian Bean 21 " and<br>"Gujarat navsari Indian Bean 22" |
| **5** | **Seed rate** | 25-30 kg/ha |
| **6** | **Season** | *Rabi* – 2021-22 |
| **7** | **No. of trials** | 06 (0.1 ha per treatment and 0.3 ha per farmer) |
| **8** | **Total area of OFT** | 1.8 ha |
| **9** | **Observation to be studied** | Primary parameters : Yield of pods (kg/ha),<br>Secondary parameters (average): days to 50 % Flowering, Plant height, Average no.of pods per plant, green pod yield (kg) |
| **10** | **Source of Technology** | Navsari Agricultural University, Navsari (2016-17) |
| **11** | **Name of critical input** | seeds, Novel organic liquid fertilizer, PSB ,*Rhizobium* and KMB (Novel & other Bio-fertilizer given for adoption of organic farming) |

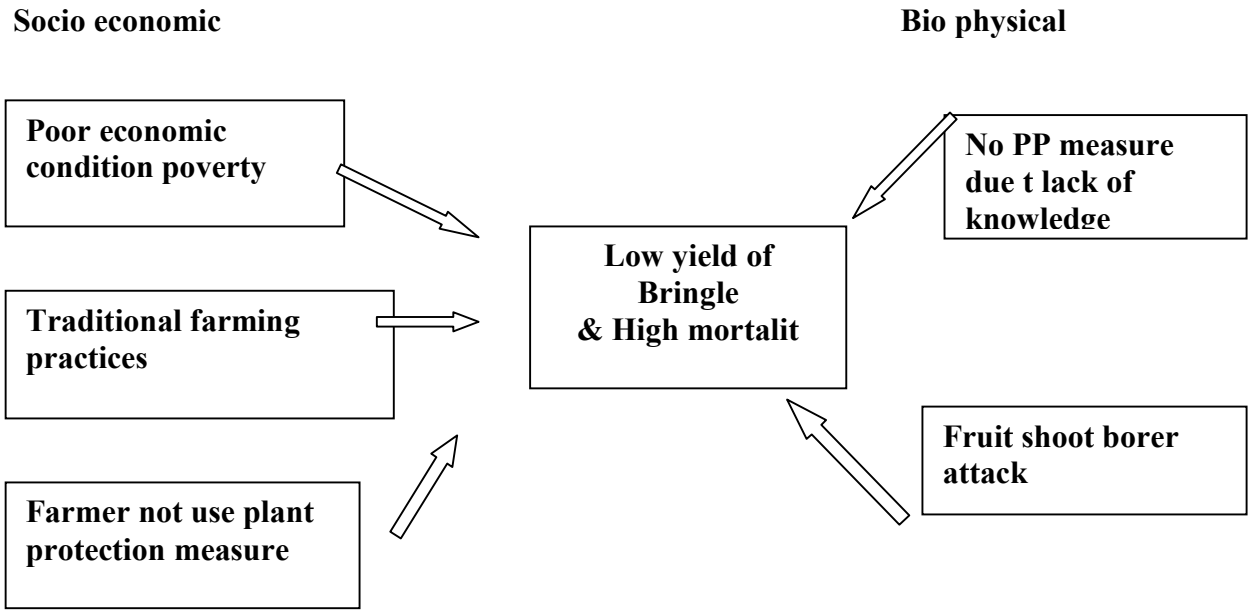
**OFT-4:**

**Title: Assessment of pheromone trap technology for the management of leucinodes orbonails in Brinjal**

Background:

Bringal is one of the most common vegetables grown in dang district. Immature fruits are used in curries and a variety of dishes are prepared out of bringal fruits are moderate source of vitamins and minerals like phosphorus, calcium and iron and nutrition value. Bringal is infected by fruit & shoot borer. Occasional out brack of this disease causing losses to farmer.

**Problem**: See the problem cause diagramme




Intervening point

| | | |
|---|---|---|
| **1** | **OFT Title** | Assessment of pheromone traps technology for the management of leucinodes orbonails in Brinjal. |
| **2** | **Prioritized problem** | Low yield of bringal. |
| **3** | **Technology Assessed** | $T_1$ : Farmers Practices<br>$T_2$ : Installation of pheromone traps @ 40 traps/ha (AAU,Anand)<br>$T_3$ : remove the infected shoot and fruit + Installed pheromone traps @ 12/ha (TNAU,TN) |
| **4** | **Variety** | Mixed |
| **5** | **Season** | *Kharif* – 2022 |
| **6** | **No. of village** | *01* |
| **7** | **No. of farmer** | 06 |
| **8** | **Area/ treatment/farmer** | 0.2 ha per treatment & 0.6 ha per farmer |
| **9** | **Total area of OFT** | 3.6 ha |
| **10** | **Observation to be recorded** | Yield of bringal (kg/ha) |
| **11** | **Source of Technology** | AAU, Anand & TNAU,TN |

| | | |
|---|---|---|
| **12** | **Name of critical input** | Pheromone trap |
| **13** | **Estimated cost of input per trial/per farmer** | 4000 |

### 20.4.4. On Farm Testing: (5 ongoing)

| Sr. No. | Discipline | Title of the OFT |
|---|---|---|
| 1. | Crop production | **Spacing management in pigeon pea**<br>T1 : Farmers Practices (Random sowing)<br>T2 : 45 x 15 cm<br>T3 : 60 x 20 cm |
| 2. | Horticulture | **Varietal assessment of Tomato in the Dang District**<br>T1: Farmers practices(Hybrid varieties )<br>T2: Gujarat Tomato-7<br>T3: Arka Rakshak |
| 3. | Horticulture | **Possibilities of Potato cultivation in The Dang district (Assessment)**<br>T1: Farmers practices (Gram)<br>T2: Potato crop( Kufri Badshah) |
| 4. | Plant protection | **Management of Fruit & Shoot borer of Okra**<br>T1: Farmers practice<br>T2: Installation of Pheromone trap<br>T3 : Spray Azadirachtin (Neem oil based) 300ppm/1500 ppm |
| 5. | Anima science | **Use of Chelated minerals in the diet of crossbred HF cows**<br>T 1- Farmer's practice – feeding of locally available feeds and fodders<br>T 2- T1 + Chelated minerals @ 30 gm/cow/day for 120 days<br>T3- T1 + Chelated minerals @ 30 gm/cow/day for 120 days + Bol. Fenbendazol @ 5-7.5 / kg body weight |

### 20.4.5. Extension activities

| Nature of Extension Activity | No. of activities | Farmers | | | Extension Officials | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Field Day | 6 | 60 | 50 | 110 | 5 | 1 | 6 | 65 | 51 | 116 |
| Kisan Mela | 1 | 500 | 400 | 900 | 15 | 2 | 17 | 515 | 402 | 917 |
| Kisan Goshthi | 6 | 100 | 80 | 180 | 4 | 1 | 5 | 104 | 81 | 185 |
| Exhibition | 3 | 500 | 300 | 800 | 5 | 3 | 8 | 505 | 303 | 808 |
| Film Show | 10 | 150 | 110 | 260 | 5 | 4 | 9 | 155 | 114 | 269 |
| Farmers Seminars | 1 | 50 | 40 | 90 | 2 | 1 | 3 | 52 | 41 | 93 |
| Workshop | 2 | 50 | 50 | 100 | 2 | 2 | 4 | 52 | 52 | 104 |
| Group meetings | 7 | 90 | 50 | 140 | 4 | 2 | 6 | 94 | 52 | 146 |
| Lectures delivered as resource persons | 30 | 1950 | 1300 | 3250 | 15 | 5 | 20 | 1965 | 1305 | 3270 |
| Newspaper coverage | 20 | As per need | | | | | | | | |
| Radio talks | As per need | | | | | | | | | |
| TV talks | As per need | | | | | | | | | |
| Popular articles | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Extension literature | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Advisory services | 150 | 1050 | 800 | 1850 | 0 | 0 | 0 | 1050 | 800 | 1850 |
| Scientific visit to farmers field | 15 | 250 | 200 | 450 | 10 | 2 | 12 | 260 | 202 | 462 |
| Farmers visit to KVK | 12 | 1300 | 800 | 2100 | 25 | 25 | 50 | 1325 | 825 | 2150 |
| Diagnostic visits | 15 | 50 | 20 | 70 | 0 | 0 | 0 | 50 | 20 | 70 |
| Exposure visits | 7 | 100 | 150 | 250 | 4 | 1 | 5 | 104 | 151 | 255 |
| Ex-trainees Sammelan | As per need | | | | | | | | | |
| Soil health Camp | 1 | 100 | 100 | 200 | 2 | 0 | 2 | 102 | 100 | 202 |
| Animal health Camp | 1 | 25 | 25 | 50 | 1 | 0 | 1 | 26 | 25 | 51 |
| Agri mobile clinic | As per need | | | | | | | | | |
| Soil test campaigns | 1 | 30 | 20 | 50 | 1 | 0 | 1 | 31 | 20 | 51 |
| Farm Science Club Conveners meet | As per need | | | | | | | | | |
| Self Help Group Conveners meetings | As per need | | | | | | | | | |
| MahilaMandals Conveners meetings | As per need | | | | | | | | | |
| Celebration of special days (specify) | 10 | 500 | 400 | 900 | 10 | 4 | 14 | 510 | 404 | 914 |
| Krishi Mohotsav | 1 | 350 | 250 | 600 | 12 | 2 | 14 | 362 | 252 | 614 |
| Pre Kharif Kisan Mela | As per need | | | | | | | | | |
| Pre Rabi Kisan Mela | As per need | | | | | | | | | |
| Any Other (Specify) | As per need | | | | | | | | | |
| **Total** | **311** | **7205** | **5145** | **12350** | **122** | **55** | **177** | **7327** | **5200** | **12527** |

### 20.4.6. Proposed plan of work for instructional farm

| Name of the crop | Area (ha) | Details of production (expected) | | | Expected Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|
| | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| **Cereals** | | | | | | | |
| Paddy | 2.0 | GR 17/GNR 7 | Seed | 8.0 ton | 1,35,000/- | 2,70,000/- | Kharif |
| **Pulses** | | | | | | | |
| Gram | 1.5 | GJG 3/ GJG 6 | Seed | 2.0 ton | 50,000/- | 1,50,000/- | *Rabi* |
| Green Gram | 0.5 | GM 6 | Seed | 0.4 ton | 20,000/- | 40,000/- | Summer |
| **Fruits** | | | | | | | |
| Mango | 0.8 | Kesar, Rajapuri, Dashehri, Desi, Alphanso, Vasibadami, Sardar, Totapuri | Fruit | 0.8 ton | 25,000/- (Organic farming) | 40,000/- | Open plantation, High Density plantation (5 x 5 mt) and Ultra High Density plantation (2.5 x 2.5) |
| **Vegetables** | | | | | | | |
| Nursery & Leafy Vegetables | 1600 $m^2$ | Turmeric/ Tomato/ Chilli/ Other vegetables | Tuber/ Fruit/Other | 0.2 ton | 5,000/- | As a demonetization unit | Net house |
| **Others (specify)** | | | | | | | |
| Seedling of Tomato, Chilly Brinjal, | - | - | - | - | - | - | - |

### 20.4.7. Details of Budget Estimate (2022) based on proposed action plan

| S. No. | Particulars | Proposed BE 2022-23 (Rs.) |
|---|---|---|
| **1** | **Recurring Contingencies** | |
| 1.1 | **Pay & Allowances** | **1,30,00,000/-** |
| 1.2 | **Traveling allowances** | **2,00,000/-** |
| 1.3 | **Contingencies** | **71,10,000/-** |
| *A* | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 13,70,000/- |
| *B* | POL, repair of vehicles, tractor and equipments | 4,00,000/- |
| *C* | Meals/refreshment for trainees (ceiling upto Rs.150/day/trainee be maintained) | 8,70,000/- |
| *D* | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | 5,00,000/- |
| *E* | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 11,60,000/- |
| *F* | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 3,40,000/- |
| *G* | Training of extension functionaries | 1,08,000/- |
| *H* | Maintenance of buildings | 20,00,000/- |
| *I* | Establishment of Soil, Plant & Water Testing Laboratory | 2,50,000/- |
| *J* | Establishment of low cost green house | 1,00,000/- |
| *K* | Library | 12,000/- |
| | **TOTAL Recurring Contingencies** | **2,03,10,000/-** |
| **2** | **Non-Recurring Contingencies** | |
| 2.1 | **Works** | 40,00,000/- |
| 2.2 | **Equipments including SWTL & Furniture** | 9,40,000/- |
| 2.3 | **Vehicle** (Four-wheeler/Two-wheeler, please specify) | - |
| 2.4 | **Library** (Purchase of assets like books & journals) | 6,00,000/- |
| | **TOTAL Non-Recurring Contingencies (2.1+2.2+2.3)** | **55,40,000/-** |
| **3** | **REVOLVING FUND** | **-** |
| | **GRAND TOTAL** | **2,58,50,000/-** |

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