

KRISHI VIGYAN KENDRA, KATIHAR
(Bihar Agricultural University, Sabour)

ACTION PLAN, 2020

GENERAL INFORMATION ABOUT THE KVK

Introduction:

Name of the KVK: KVK, Katihar

| Address | Telephone | E mail |
|--|------------------|--|
| KRISHI VIGYANKENDRA, TINGACHHIYA, KATIHAR, PIN-854105 | 06452-246875 | katiharkvk@gmail.com |

2.Name of host organization :

| Address | Telephone | | E mail |
|--|------------------|--------------|-----------------------|
| | Office | FAX | |
| Bihar Agricultural University, Sabour, Bhagalpur, Bihar | 0641- 2452606 | 0641-2452614 | vcbausabour@gmail.com |

Staff Position

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Permanent/Temporary | Category (SC/ST/OBC/Others) |
|----------------|---------------------------|------------------------------|---------------------------|----------------------------|------------------------------------|
| 1 | Senior Scientist & Head | Dr. Reeta Singh | Sr. Scientist & head | Permanent | OBC |
| 2 | Subject Matter Specialist | Dr. Sushil Kumar Singh | Subject Matter Specialist | Permanent | OBC |
| 3 | Subject Matter Specialist | Smt. Nandita Kumari | Subject Matter Specialist | Permanent | OBC |
| 4 | Subject Matter Specialist | Dr. Kamleshwari Singh | Subject Matter Specialist | Permanent | OBC |
| 5 | Subject Matter Specialist | Sri Pankaj Kumar | Subject Matter Specialist | Permanent | EBC |
| 6 | Subject Matter | Dr. Rama Kant | Subject Matter | Permanent | Gen |

| | | | | | |
|-----|-----------------------------|---------------------------|---------------------------------|-----------|-----|
| | Specialist | Singh | Specialist | | |
| 7 | Subject Matter Specialist | | | | |
| 8 | Programme Assistant | Smt. Swarn Prabha Reddy | Programme Assistant (Lab. Tech) | Permanent | OBC |
| 9 | Computer Programmer | Sri Amarendra Kumar Vikas | Programme Assistant (Computer) | Permanent | Gen |
| 10 | Farm Manager | Sri Om Prakash Bharti | Farm Manager | Permanent | EBC |
| 11 | Accountant / Superintendent | Sri Mukesh Kumar | Assistant | Permanent | EBC |
| 12 | Stenographer | Sri Biswajit Datta | Stenographer | Permanent | Gen |
| 13. | Driver | Sri Ram Jee | Driver | Permanent | OBC |
| 14. | Driver | Sri Manoj Kumar Prajapati | Driver | Permanent | Gen |
| 15. | Supporting staff | | | | |
| 16. | Supporting staff | | | | |

3. Total land with KVK (in ha)

| S. No. | Item | Area (ha) |
|--------|---------------------------|--------------|
| 1 | Under Buildings | 1.50 |
| 2. | Under Demonstration Units | 0.50 |
| 3. | Under Crops | 4.50 |
| 4. | Orchard/Agro-forestry | 1.2 |
| 5. | Others with details | 12.3 |
| Total | | 20.00 |

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

| S. No. | Farming system/enterprise |
|--------|---|
| 1 | Paddy-Wheat based farming system |
| 2 | Paddy-Maize based farming system |
| 3 | Paddy- Mustard- Boro paddy based farming system |
| 4 | Fish Culture |
| 5 | Bamboo Production & Processing |
| 6 | Mushroom Production & its Value added products |
| 7 | Makhana Cultivation and primary processing |
| 8 | Poultry production |
| 9 | Vermi Compost production |
| 10 | Tissue Culture Banana |

5. About District

| DEMOGRAPHIC FEATURES | |
|----------------------------------|-----------|
| Area (in ha.) | 291349000 |
| No. of Sub-Division | 03 |
| No. of Block | 16 |
| No. of Gram Panchayat | 244 |
| No. of Village | 1543 |
| Total Population | 3071029 |
| Population Density (per sq. km.) | 1005 |
| SC Population | 263100 |
| ST Population | 179971 |
| Sex Ratio | 919 |
| Literacy rate | 52.24 |

Source: As per 2011 Census

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

| S. No | Agro-climatic Zone | Characteristics |
|-------|---------------------------------------|---|
| 1 | Zone-II (North – East Alluvial Plain) | High Temperature, High Humidity, Sandy to clay soil, Flood Prone area |

7. Agro ecological situation

| S. No | Agro ecological situation | Area (ha) | Characteristics |
|-------|---------------------------|-----------|---|
| 1 | Up land sandy soil | - | Suitable for maize, wheat, Banana, vegetables & fruits |
| 2 | Medium Sandy loam soil | - | Wheat, Maize, Jute, Rice, Oil seeds & pulses & vegetable & fruits cultivation |
| 3 | Low lying clay soil - | - | with flood & water lodging condition Suitable for Boro paddy, Makhana & paira cropping Diara land of Kosi, Ganga and Mahananda with sandy |
| 4 | loamy soil | - | suitable for Rabi Maize, wheat, oil seeds pulses & cucurbitaceous vegetable flooded during Kharif Season |

8. Soil types

| S. No | Soil type | Characteristics | Area in ha |
|-------|------------------------------|--|------------|
| 1 | Up land sandy soil- | Suitable for vegetables wheat, maize, Banana | - |
| 2 | Medium Loamy Soil | Well drained rich in organic carbon suited for wheat, Maize, oil seeds and pulses & vegetables | - |
| 3 | Low lying clay soils | Suitable for Makhana, Boro paddy & fishery | - |
| 4 | New alluvial diara land soil | Deposition of clay soil year after year good for Rabi crops. | - |

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

| S. No | Crop | Productivity (q/ha) |
|--------------|--------------------------|----------------------------|
| 1. | Rice | 41 |
| 2. | Maize | 72 |
| 3 | Wheat | 33 |
| 4 | Pigeonpea | 13 |
| 5 | Mustard | 12 |
| 6 | Pulses (others) (lentil) | 10.80 |
| 7 | Potato | 16.36 |
| 8 | Okra | 12.79 |
| 9 | Jute (Fibre) | 22 |
| 10 | Cauliflower | 16.69 |
| 11 | Brinjal | 20.80 |
| 12 | Banana | 48.00 |
| 13 | Tomato | 19.79 |
| 14 | Cabbage | 16.90 |
| 15 | Chili | 11.60 |
| 16 | Mango | 7.90 |
| 17 | Guava | 8.00 |
| 18 | Lichi | 7.58 |
| 19 | Onion | 19.86 |
| 20 | Merigold | 8.0 |

10. Details of operational area / villages

| Sl.No. | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|--------|---------|-------------------|---------------------|---|---|---|
| 1. | Katihar | Korha | Musapur | Vegetable Banana Paddy Maize Oil Seeds | Lack of high yielding varieties, pest & diseases control | Varietal Improvement, Promotion of IPM Practices |
| 2. | | Katihar | Sirsa | Banana, Makhana, Wheat, Paddy , Maize, Vegetables | Women empowerment, Lack of high yielding varieties, Pest & Disease control | Varietal Improvement, Promotion of IPM Practices Promotion of Banana Makhana based farming system and jute cultivation |
| 3. | | Katihar | Pokhariya | Vegetables, Paddy, Maize, Boro Paddy | Lack of high yielding varieties, pest & diseases control | Varietal Improvement, Promotion of IPM Practices Promotion of Banana Makhana based farming system and jute cultivation |
| 4. | | Dandkhora | Barua Tola | Maize, Pulses, Paddy, Wheat, Vegetables | Lack of high yielding variety, pest & diseases control, INM | Varietal Improvement, Promotion of IPM Practices Promotion of INM Practices |
| 5. | | Mansahi | Lahsa | Vegetable Boro Paddy, Oil Seeds Maize | Lack of high yielding variety, pest & diseases control, INM | Varietal Improvement, Promotion of IPM Practices Promotion of INM Practices |

11. Priority thrust areas

| S. No | Thrust area |
|-------|--|
| 1. | Soil test based nutrition management in crops of the district |
| 2. | Development of Suitable cropping system for diara, tal land of the district |
| 3. | Implementation of women programmes in relation to food, nutrition and drudgery |
| 4. | Promotion of Entrepreneurship development |
| 5. | Soil test based nutrition management in crop plants of the district. |
| 6. | Promotion of Banana, Makhana based farming system and jute cultivation. |
| 7. | Promotion and adoption of Integrated farming system for the district. |
| 8. | Technology dissemination through production and supply of plant and seed materials |
| 9. | Identification & Popularization of good quality vegetable seeds |

12. Training program to be organized (January 2020 to December 2020)

1. Home Science

| Thematic Area | Title of Training | Qr. No. | Duration | Venue OFF/On Campus | Tentative Date | Participants/Trainees | | | | | | | | |
|--------------------------|---|---------|----------|---------------------|----------------|-----------------------|---|----|---|-------|----|-------|----|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Practicing Farmer | | | | | | | | | | | | | | |
| Income Generation | Preparation of potato chips, badi and papad | 1 | 2 | On/Off | 3-4.01.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Capacity building | Nutritional Practices in Dietary pattern women & Children | 1 | 2 | On/Off | 05-06-02.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Gender mainstreaming | Gender mainstreaming and formation of SHGs | 1 | 2 | OFF | 18-19.03.2020 | 0 | 2 | 0 | 3 | 0 | 20 | 0 | 25 | 25 |
| Gender mainstreaming | Gender mainstreaming and formation | 1 | 3 | OFF | 29-31.03.2020 | 0 | 2 | 0 | 3 | 0 | 20 | 0 | 25 | 25 |

| | | | | | | | | | | | | | | |
|---|---|---|---|--------|---------------|---|---|---|---|---|----|---|----|----|
| | of SHGs | | | | | | | | | | | | | |
| Rural Crafts | Cutting and stitching of garment and embroidery works/ Tie Die and Textile design | 1 | 2 | On/Off | 03-03.04.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Drudgery reduction | Location specific drudgery reduction technologies in Agriculture | 1 | 2 | On/Off | 05-06.05.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Value addition | Preservation of seasonal fruits pineapple and others | 1 | 2 | On/Off | 23-24.06.2020 | 0 | 2 | 0 | 3 | 0 | 20 | 0 | 25 | 25 |
| Women and child care | Importance and use of balanced diet for children and women. | 1 | 1 | On/Off | 04-05.08.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Minimization of nutrient loss in processing | Preparation of energy efficient diet | 1 | 2 | On/Off | 18-19.08.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Enterprise development | Enterprise development through Mushroom cultivation | 1 | 2 | On/Off | 16-17.09.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Household food security by kitchen gardening | Importance of Nutritional Kitchen gardening and management | 1 | 2 | On/Off | 02-03.11.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |
| Designing and development for high nutrient efficiency diet | Preparation of weaning food for better child growth | 1 | 2 | On/Off | 15-16.12.2020 | 0 | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 25 |

Rural Youth

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|--------------------------|---|---|---|--------|----------------|---|---|---|---|---|----|---|----|----|
| Post Harvest Technology | Preparation of potato chips, papar and other products | 1 | 4 | ON/OFF | 10-13.02.2020 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Value Addition | Preservation of seasonal fruits | 1 | 4 | ON/OFF | 27-30.04.2020 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Mushroom Production | Mushroom cultivation for income generation | 1 | 4 | ON/OFF | 07-10.09.2020 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Rural Craft | Production of decorative items from locally available materials | 1 | 4 | ON/OFF | 16-19.06.2020 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Value Addition | Preservation of seasonal vegetables | 1 | 4 | ON/OFF | 25-28.08.2020 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| House Hold Food Security | Importance of nutritional kitchen gardening and its management. | 1 | 4 | ON/OFF | 24-27.11..2020 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Mushroom Production | Different mushroom type, production procedures, and Mushroom products | 1 | 4 | ON/OFF | 15-18.12.2020 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |

| Extension Functionaries | | | | | | | | | | | | | | |
|-------------------------|---|---|---|--------|----------------|---|---|---|---|---|----|---|----|----|
| Household food security | Nutritional backyard kitchen gardening. | 1 | 1 | ON/OFF | 12.03.20 20 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Gender main streaming | Entrepreneurs hip development and women empowerment | 1 | 1 | ON/OFF | 16.04.20 20 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Women and Child Care | Women and Child Care Practices | 1 | 1 | ON/OFF | 20.10.20 20 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |
| Rural Craft | Training on different type of State Embroidery | 1 | 1 | ON/OFF | 12.11.20 20 | - | 3 | - | 2 | - | 20 | - | 25 | 25 |

2. Agronomy

| Thematic Area | Title of Training | Qr. No. | Duration | Venue OFF/ On Campus | Tentative Date | Participants/Trainees | | | | | | | | |
|----------------------------------|---|---------|----------|----------------------|----------------|-----------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Practicing Farmer | | | | | | | | | | | | | | |
| Nursery Management | Nursery Management of Paddy | 1 | 1 | ON/OFF | 03.01.2020 | 7 | 1 | 1 | 4 | 9 | 3 | 17 | 8 | 25 |
| Cropping system | Management of Rice-wheat /maize cropping system | 1 | 1 | ON/OFF | 04.02.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| ICM | Agronomic management practices of Jute | 1 | 1 | ON/OFF | 02.03.2020 | 7 | 2 | 1 | 4 | 8 | 3 | 16 | 9 | 25 |
| Crop diversification | Diversification of Rice-Wheat Cropping system | 1 | 1 | ON/OFF | 17.03.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Resource conservation Technology | Cultivation of Direct Seeded Rice | 1 | 1 | ON/OFF | 24.04.2020 | 7 | 2 | 1 | 4 | 8 | 3 | 16 | 9 | 25 |
| Weed management | Weed management in Kharif Crops | 1 | 1 | ON/OFF | 20.05.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Water Management | Water management in Paddy | 1 | 1 | ON/OFF | 13.06.2020 | 7 | 2 | 1 | 4 | 8 | 3 | 16 | 9 | 25 |
| Seed Production | Seed Production of Wheat | 1 | 1 | ON/OFF | 23.06.2020 | 8 | 1 | 1 | 4 | 9 | 2 | 18 | 7 | 25 |
| Weed management | Weed management | 1 | 1 | ON/OFF | 03.07.2020 | 7 | 1 | 1 | 4 | 10 | 2 | 18 | 7 | 25 |

| | | | | | | | | | | | | | | |
|----------------------------|--|---|---|--------|------------|---|---|---|---|---|---|----|---|----|
| | in Rabi crops | | | | | | | | | | | | | |
| ICM | Scientific Cultivation of Rabi pulses | 1 | 1 | ON/OFF | 22.07.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Fodder management | Scientific Cultivation of fodder | 1 | 1 | ON/OFF | 02.09.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Integrated crop Management | Agronomic management practices of Boro Paddy | 1 | 1 | ON/OFF | 28.10.2020 | 7 | 2 | 1 | 4 | 9 | 2 | 17 | 8 | 25 |
| Weed Management | Weed Management on Boro Rice | 1 | 1 | ON/OFF | 18.11.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Integrated farming | Development integrated farming practices | 1 | 1 | ON/OFF | 29.12.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |

Rural Youth

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|---------------------------|---|---|---|--------|---------------|---|---|---|---|---|---|----|---|----|
| Crop diversification | Diversification of Rice Wheat Cropping system | 1 | 4 | ON/OFF | 14-17.01.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Seed production | Seed Production of Paddy | 1 | 4 | ON/OFF | 12-15.05.2020 | 7 | 2 | 1 | 4 | 8 | 3 | 16 | 9 | 25 |
| ICM | Agronomic management practices of Maize | 1 | 4 | ON/OFF | 13-16.10.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Integrated farming System | Integrated farming System | 1 | 4 | ON/OFF | 10-13.02.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |

Extension Functionaries

| | | | | | | | | | | | | | | |
|---|---|---|---|--------|------------|---|---|---|---|----|---|----|----|----|
| ICM | Agronomic Management practices of Jute | 1 | 1 | ON/OFF | 05.03.2020 | 7 | 2 | 1 | 4 | 11 | 5 | 19 | 11 | 30 |
| Productivity enhancement in field crops | Agronomic Management practices of paddy | 1 | 1 | ON/OFF | 08.05.2020 | 8 | 2 | 1 | 4 | 11 | 4 | 20 | 10 | 30 |
| RCT | Sowing of Wheat by technology | 1 | 1 | ON/OFF | 05.10.2020 | 7 | 2 | 1 | 4 | 11 | 5 | 19 | 11 | 30 |
| Integrated farming system | Integrated farming system | 1 | 1 | ON/OFF | 17.11.2020 | 8 | 2 | 1 | 4 | 11 | 4 | 20 | 10 | 30 |

3. Horticulture

| Thematic Area | Title of Training | Qr. No. | Duration | Venue OFF/On Campuses | Tentative Date | Participants/Trainees | | | | | | | | |
|----------------------------------|--|---------|----------|-----------------------|----------------|-----------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Practicing Farmer | | | | | | | | | | | | | | |
| Seed production | Nursery raising and seed production of vegetable crops | 1 | 1 | ON/OFF | 09.01.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Training and Pruning | Training & pruning of Horticultural crop | 1 | 1 | ON/OFF | 21.01.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| INM | INM in Fruit & vegetable crops | 1 | 1 | ON/OFF | 14.02.2020 | 2 | - | 3 | - | 20 | - | 25 | 0 | 25 |
| Export potential Fruit | Scientific Cultivation of Broccole and Sproufig | 1 | 1 | ON/OFF | 13.03.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Production of crop | Scientific cultivation of summer vegetable | 1 | 1 | ON/OFF | 03.03.2020 | 5 | - | - | - | 20 | - | 25 | 0 | 25 |
| Cultivation of Vegetable | Scientific Cultivation of Brinjal and Bhindi | 1 | 1 | ON/OFF | 17.04.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Plant Propagation | Different methods of propagation | 1 | 1 | ON/OFF | 27.05.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Nursery Raising | Nursery raising for summer vegetable | 1 | 1 | ON/OFF | 04.06.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Layout and Management of Orchard | Establishment and management of new Orchard. | 1 | 1 | ON/OFF | 14.07.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Protected | Cultivation of | 1 | 1 | ON/OFF | 05.08.20 | 2 | - | 3 | - | 20 | - | 25 | 0 | 25 |

| | | | | | | | | | | | | | | |
|--|---|---|---|--------|---------------|---|---|---|---|----|---|----|---|----|
| cultivation | Vegetable under shed net and poly tunnel. | | | | 20 | | | | | | | | | |
| Cultivation of Cole's Crops | Scientific Cultivation of Cauliflower and Cabbage. | 1 | 1 | ON/OFF | 13.08.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Disease management | IDM of vegetables | 1 | 1 | ON/OFF | 16.09.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Cultivation of Fruits | Scientific cultivation of Tomato | 1 | 1 | ON/OFF | 24.09.2020 | 5 | - | - | - | 20 | - | 25 | 0 | 25 |
| Low volume high value crop | Cultivation of flower for income generation | 1 | 1 | ON/OFF | 19.09.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Production Technology | Production and management for Medicinal, aromatic plants. | 1 | 1 | ON/OFF | 22.10.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Seed production | Seed production techniques of potato | 1 | 1 | ON/OFF | 29.10.2020 | 3 | - | 2 | - | 20 | - | 25 | 0 | 25 |
| Production and management | Scientific cultivation of garlic and spices crops | 1 | 1 | ON/OFF | 01.10.2020 | 5 | - | - | - | 20 | - | 25 | 0 | 25 |
| Production of Medicinal and Aromatic Crops | Scientific cultivation of Medicinal and Aromatic Crops | 1 | 1 | ON/OFF | 03.12.2020 | 5 | - | - | - | 20 | - | 25 | 0 | 25 |
| Rural Youth | | | | | | | | | | | | | | |
| Commercial fruit production | Scientific Cultivation of elephant fruit | 1 | 4 | ON/OFF | 10-13.06.2020 | 3 | 1 | 1 | - | 20 | - | 24 | 1 | 25 |

| | | | | | | | | | | | | | | |
|------------------------------|---|---|---|--------|---------------|---|---|---|---|----|---|----|---|----|
| Commercial fruit production | Production, care and Management of Banana | 1 | 4 | ON/OFF | 23-26.06.2020 | 3 | 1 | 1 | - | 20 | - | 24 | 1 | 25 |
| Seed Production | Seed Production of vegetables | 1 | 4 | ON/OFF | 27-30.07.2020 | 3 | 1 | 2 | - | 19 | - | 24 | 1 | 25 |
| Planting Material Production | Plant Propagation techniques of fruit crops | 1 | 4 | ON/OFF | 21-24.09.2020 | 3 | 1 | 2 | 1 | 19 | - | 24 | 2 | 25 |
| Nursery Management | Nursery management of vegetable crop and poly tunnel technology | 1 | 4 | ON/OFF | 15-18.07.2020 | 3 | 1 | 1 | - | 20 | - | 24 | 1 | 25 |
| Protected cultivation | Protected cultivation of vegetable crops and Simla Mirch | 1 | 4 | ON/OFF | 27-30.10.2020 | 3 | 1 | 2 | - | 19 | - | 24 | 1 | 25 |

Extension Functionaries

| | | | | | | | | | | | | | | |
|------------------------------|--|---|---|--------|------------|---|---|---|---|----|---|----|----|----|
| ICM | Package and practices of Jute | 1 | 1 | ON/OFF | 27.03.2020 | - | 1 | 2 | - | 22 | - | 24 | 1 | 25 |
| Planting Material Production | Plant Propagation techniques in fruit crop | 1 | 1 | ON/OFF | 08.06.2020 | 2 | 1 | 2 | - | 20 | - | 24 | 1 | 25 |
| Crop Production | Scientific Cultivation of Cauliflower | 1 | 1 | ON/OFF | 20.07.2020 | 7 | 2 | 1 | 4 | 11 | 5 | 19 | 11 | 30 |
| Protected cultivation | Protected cultivation of Tomato, Simla mirch, cucumber, garden pea | 1 | 1 | ON/OFF | 03.08.2020 | 3 | 1 | 2 | - | 19 | - | 24 | 1 | 25 |

| | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|--------|------------|---|---|---|---|----|---|----|---|----|
| Care and manage fruit Orchard | Proper care and management of fruit Orchard | 1 | 1 | ON/OFF | 29.09.2020 | 3 | 1 | 2 | - | 19 | - | 24 | 1 | 25 |
|-------------------------------|---|---|---|--------|------------|---|---|---|---|----|---|----|---|----|

4. Extension Education

| Thematic Area | Title of Training | Qr. No. | Duration | Venue OFF/ On Campus | Tentative Date | Participants/Trainees | | | | | | | | |
|--------------------------|---|---------|----------|----------------------|----------------|-----------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Practicing Farmer | | | | | | | | | | | | | | |
| Group Dynamics | Formation and management of SHGs/JIGS | 1 | 1 | ON/OFF | 20.01.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Group Dynamics | Establishment and strengthening of Farmers Club | 1 | 1 | ON/OFF | 28.01.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Leadership development | Leadership development for technology dissemination | 1 | 1 | ON/OFF | 19.02.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Group Dynamics | Formation and management of SHGs/JIGS | 1 | 1 | ON/OFF | 09.03.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| PRA | Agro ecosystem analysis of adopted village | 1 | 2 | ON/OFF | 15-16.04.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Group Dynamics | Formation and Management of SHGs/JIGS | 1 | 1 | ON/OFF | 21.04.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |

| | | | | | | | | | | | | | | |
|---|--|---|---|--------|---------------|---|---|---|---|---|---|----|---|----|
| Mobilization of social capital | Income generation activities among group members | 1 | 1 | ON/OFF | 28.04.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through poultry | 1 | 1 | ON/OFF | 04.05.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| WTO and IPR issues | Awareness and use of market intelligence | 1 | 2 | ON/OFF | 04-05.06.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Production Technology | DSR | 1 | 1 | ON/OFF | 09.06.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through Beekeeping | 1 | 1 | ON/OFF | 18.06.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Production technologies | Productivity enhancement of field crops | 1 | 1 | ON/OFF | 19.08.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Group Dynamics | Formation and management of SHGs/JIGS | 1 | 1 | ON/OFF | 25.09.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Group Dynamics | Formation and Management of SHGs/JIGS | 1 | 1 | ON/OFF | 12.10.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through poultry | 1 | 1 | ON/OFF | 07.12.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |

Rural Youth

| | | | | | | | | | | | | | | |
|---|--|---|---|--------|---------------|---|---|---|---|---|---|----|---|----|
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through Organic farming | 1 | 4 | ON/OFF | 01-05.02.2021 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through dairy | 1 | 4 | ON/OFF | 14-17.09.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through Beekeeping | 1 | 4 | ON/OFF | 21-24.09.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through Beekeeping | 1 | 4 | ON/OFF | 03-06.11.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through Poultry | 1 | 4 | ON/OFF | 24-27.11.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Entrepreneurial development of farmers/youths | Entrepreneurship Development through fisheries | 1 | 1 | ON/OFF | 21-24.12.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |

Extension Functionaries

| | | | | | | | | | | | | | | |
|---|--|---|---|--------|------------|---|---|---|---|----|---|----|----|----|
| Formation and Management of SHGs | Formation and Management of kisan club and SHGs and JLGS | 1 | 1 | ON/OFF | 13.03.2020 | 7 | 2 | 1 | 4 | 11 | 5 | 19 | 11 | 30 |
| Leadership development | Leadership development for Agro tech dissemination | 1 | 1 | ON/OFF | 15.07.2020 | 8 | 2 | 1 | 4 | 11 | 4 | 20 | 10 | 30 |
| Information networking among farmers | ICT practices for information and networking among farmers | 1 | 1 | ON/OFF | 16.10.2020 | 7 | 2 | 1 | 4 | 11 | 5 | 19 | 11 | 30 |
| Entrepreneurial development of farmers/youths | Entrepreneurial development of farmers/youths | 1 | 1 | ON/OFF | 10.11.2020 | 8 | 2 | 1 | 4 | 11 | 4 | 20 | 10 | 30 |

5. Soil Science

| Thematic Area | Title of Training | Q r. N o . | Dur ation | Venue OFF/On Campus | Tentative Date | Participants/Trainees | | | | | | | | |
|--------------------------------------|---|------------|-----------|---------------------|----------------|-----------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Practicing Farmer | | | | | | | | | | | | | | |
| Soil and water testing | Methods of soil sampling and analysis | 1 | 1 | ON/OFF | 09.01.2020 | 8 | 2 | 2 | - | 14 | - | 24 | 2 | 25 |
| Production and use of organic inputs | Vermi compost Production techniques, and its use in crops and cropping system Technique | 1 | 1 | ON/OFF | 13.02.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Production and use of organic inputs | Methods of Bio fertilizer production and its uses | 1 | 1 | ON/OFF | 12.03.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Soil fertility management | Fertilizer management in Paddy | 1 | 1 | ON/OFF | 24.04.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Micro nutrient deficiency in crops | Micro nutrient deficiency symptoms and its management in crops | 1 | 1 | ON/OFF | 21.05.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| INM | INM in Paddy | 1 | 1 | ON/OFF | 25.06.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| INM | INM in Maize | 1 | 1 | ON/OFF | 20.08.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Nutrient use efficiency | Soil & Crop management practices to increase NUE | 1 | 1 | ON/OFF | 15.09.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Organic farming | To develop knowledge and understanding of organic farming | 1 | 1 | ON/OFF | 12.10.2020 | 9 | 1 | 2 | 3 | 8 | 2 | 19 | 6 | 25 |

| | | | | | | | | | | | | | | |
|--------------------------------|--|---|---|--------|---------------|---|---|---|---|----|---|----|----|----|
| Soil and water testing | Soil health Management in crops on Soil test basis | 1 | 1 | ON/OFF | 10.11.2020 | 9 | 1 | 2 | 3 | 8 | 2 | 19 | 6 | 25 |
| Soil fertility Management | Fertilizer management in Boro paddy | 1 | 1 | ON/OFF | 21.10.2020 | 8 | 2 | 1 | 4 | 8 | 2 | 17 | 8 | 25 |
| Rural Youth | | | | | | | | | | | | | | |
| Bio-fertilizer production | Bio-fertilizer production marketing | 1 | 4 | ON/OFF | 13-16.05.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Vermi-compost production | Vermi-compost production and marketing | 1 | 4 | ON/OFF | 21-24.07.2020 | 7 | 2 | 1 | 4 | 8 | 3 | 16 | 9 | 25 |
| Vermiculture | Vermi composting for income generation | 1 | 4 | ON/OFF | 22-25.09.2020 | 7 | 2 | 1 | 4 | 8 | 3 | 16 | 9 | 25 |
| Bio-fertilizer production | Bio-fertilizer production Techniques & marketing | 1 | 4 | ON/OFF | 19-22.10.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Organic manures production | Organic manures production techniques & marketing | 1 | 4 | ON/OFF | 9-12.11.2020 | 9 | 1 | 1 | 4 | 8 | 2 | 18 | 7 | 25 |
| Extension Functionaries | | | | | | | | | | | | | | |
| INM | Green manuring and use of bio fertilizer | 1 | 1 | ON/OFF | 19.03.2020 | 8 | 2 | 1 | 4 | 11 | 4 | 20 | 10 | 30 |
| Soil and Water Testing | Methods of soil sampling and analysis | 1 | 1 | ON/OFF | 05.05.2020 | 7 | 2 | 1 | 4 | 11 | 5 | 19 | 11 | 30 |
| INM | INM in crops and cropping system | 1 | 1 | ON/OFF | 01.07.2020 | 7 | 2 | 1 | 4 | 11 | 5 | 19 | 11 | 30 |

| | | | | | | | | | | | | | | |
|--------------------------------------|--|---|---|--------|----------------|---|---|---|---|----|---|----|----|----|
| Production and use of organic inputs | Methods of vermi compost Production and its use in crops | 1 | 1 | ON/OFF | 17.10.20 20 | 8 | 2 | 1 | 4 | 11 | 4 | 20 | 10 | 30 |
|--------------------------------------|--|---|---|--------|----------------|---|---|---|---|----|---|----|----|----|

13. Frontline demonstration to be conducted 2020

| Sl. No | Season | Crop | Variety | Area in ha. | No. of Demonstration |
|--------|--------|------------------------|--|-------------|----------------------|
| 1 | Kharif | Jute | Seed JRO-8432 | 12 | 30 |
| 2 | Kharif | Paddy | Sabour Shree | 04 | 10 |
| 3 | Kharif | Paddy & Biofertilizer | Sabour Ardhjal, Azotobactor & PSB | 04 | 10 |
| 4 | Kharif | Brinjal | PH-6 | 01 | 10 |
| 5 | Kharif | Bottle Gourd | Narendra Rashmi | 01 | 10 |
| 6 | Kharif | Cauliflower | Sabour Agrim | 01 | 10 |
| 7 | Kharif | Sorghum | CSV-33MF | 04 | 10 |
| 8 | Rabi | Women Empowerment | Consumption pattern of drumstick leaves in the diet of Adolescent girl, Pregnant women to protect against anemia | | 25 |
| 9 | Rabi | Enterprise development | Oyster mushroom | | 25 |
| 10 | Rabi | Wheat/Bio-fertilizer | Sabour Shrestha, Azotobactor & PSB | 04 | 10 |
| 11 | Rabi | Wheat | Sabour Shrestha | 04 | 10 |

Frontline demonstration to be conducted*

Crop: Paddy
Thrust Area: Development of need based efficient and profitable cropping system
Thematic Area: ICM
Season: Kharif
Farming Situation: Paddy- Wheat/ Maize

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|------------------------------|--------------------------------|--------------------------------------|---|---------------------------|-------|-------|--------------------------------|---|----|---|-------|---|-------|---|----|
| | | | | | Name of Inputs | Dem o | Local | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1. | Paddy / Sabour Shree | 4.0 | seed | Grain Yield, B:C ratio | Seed | | | 2 | 1 | 2 | 1 | 2 | 2 | 6 | 4 | 10 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientel e | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|--|-----|------------|----------|--------------|---------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Scientific Cultivation of Paddy | 1 | PF | 01 | OFF | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 0 | 25 |
| Field day | Agronomic Package of practices of Paddy crop | 1 | PF | 01 | OFF | 6 | 0 | 4 | 0 | 40 | 0 | 50 | 0 | 50 |

Frontline demonstration to be conducted*

Crop: Paddy
Thrust Area: Development of need based efficient and profitable cropping system
Thematic Area: ICM
Season: Kharif
Farming Situation: Paddy- Wheat/ Maize

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|---|--------------------------------|--------------------------------------|---|----------------------------------|------|-------|--------------------------------|---|----|---|-------|---|-------|---|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1. | Paddy / Sabour Ardhajal, Biofertilizers (Azo + PSB) | 4.0 | seed | Grain Yield, B:C ratio | Seed, Biofertilizers (Azo + PSB) | | | 2 | 1 | 2 | 1 | 2 | 2 | 6 | 4 | 10 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|--|-----|-----------|----------|--------------|---------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Scientific Cultivation of Paddy | 1 | PF | 01 | OFF | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 0 | 25 |
| Field day | Agronomic Package of practices of Paddy crop | 1 | PF | 01 | OFF | 6 | 0 | 4 | 0 | 40 | 0 | 50 | 0 | 50 |

Frontline demonstration to be conducted*

Crop: Brinjal
Thrust Area: Identification & Popularization of good quality vegetable seeds
Thematic Area: Vegetable Production
Season: Kharif
Farming Situation: Vegetable-Vegetable

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | | | |
|---------|------------------------------|--------------------------------|--------------------------------------|---|---------------------------|------|-------|--------------------------------|---|----|---|-------|---|-------|---|---|--|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T | | |
| 1. | Brinjal PH-6 | 01 | 10 | Productivity | Seed | | | | | | | | | | | | | 10 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|-----------------------------------|-----|-----------|----------|--------------|---------------------|---|----|---|-------|----|-------|----|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Scientific Cultivation of Brinjal | 01 | PF | 01 | OFF | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| field day | Assessment of Brinjal Production | 01 | PF | 01 | OFF | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |

Frontline demonstration to be conducted*

Crop: Bottle gourd
Thrust Area: Identification & Popularization of good quality vegetable seeds
Thematic Area: Vegetable Production
Season: Kharif
Farming Situation: Vegetable-Vegetable

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | | | | | | |
|---------|------------------------------|--------------------------------|--------------------------------------|---|---------------------------|------|-------|--------------------------------|---|----|---|-------|---|-------|---|---|----|---|--|--|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | | | | | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T | | | | | |
| 1. | Bottle Bourd Narendra Rashmi | 01 | 10 | Productivity | Seed | | | | | | | | | 10 | | | 10 | 0 | | | 10 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|--|-----|-----------|----------|--------------|---------------------|---|----|---|-------|----|-------|----|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Scientific Cultivation of Bottle Bourd | 01 | PF | 01 | OFF | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field day | Assessment of Bottle Bourd Production | 01 | PF | 01 | OFF | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |

Frontline demonstration to be conducted*

Crop: Cauliflower
Thrust Area: Identification & Popularization of good quality vegetable seeds
Thematic Area: Vegetable Production
Season: Rabi
Farming Situation: Vegetable-Vegetable

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | | |
|---------|------------------------------|--------------------------------|--------------------------------------|---|---------------------------|------|-------|--------------------------------|---|----|---|-------|---|-------|---|---|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T | |
| 1. | Cauliflower Sabour agrim | 01 | 10 | Productivity | Seed | | | | | | | 10 | | 10 | | | 10 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|---------------------------------------|-----|-----------|----------|--------------|---------------------|---|----|---|-------|----|-------|----|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Scientific Cultivation of Cauliflower | 01 | PF | 01 | OFF | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| field day | Assessment of Cauliflower Production | 01 | PF | 01 | OFF | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |

Frontline demonstration to be conducted*

Crop: JUTE
Thrust Area: Management of Jute, Banana and Makhana based cropping system
Thematic Area: ICM
Season: Zaid
Farming Situation: Jute-Paddy

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|------------------------------|--------------------------------|--------------------------------------|---|---------------------------|------|-------|--------------------------------|----|----|----|-------|----|-------|----|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1. | Jute/ JRO-8432 | 10 | Seed | Fibre Yield, | Seed | | | 03 | 02 | 05 | 05 | 05 | 05 | 13 | 12 | 25 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|----------------------------------|-----|-----------|----------|--------------|---------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Training on Jute Production | 01 | PF | 02 | ON | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 0 | 25 |
| Field day | Crop Condition of Jute(JRO-204) | 02 | PF | 01 | OFF | 6 | 0 | 4 | 0 | 40 | 0 | 50 | 0 | 50 |

Frontline demonstration to be conducted*

Crop: Sorghum
Thrust Area: Emphasis on Fodder requirement
Thematic Area: Fodder Production
Season: Kharif
Farming Situation: Paddy/Fodder-Maize/ Wheat

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) relation in to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|------------------------------|--------------------------------|--------------------------------------|--|---------------------------|------|-------|--------------------------------|----|----|---|-------|----|-------|---|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1. | Sorghum / CSV-33MF | 4 | Seed & Literature | Multi cut Yield, Leaf Stem Ratio, Tolerance to Water Stress and Water Lodging Condition, Yield | Seed | | | 02 | 00 | 1 | 1 | 4 | 02 | 10 | 0 | 10 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|--|-----|-----------|----------|--------------|---------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Training on Fodder Production | 01 | PF | 02 | ON | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 0 | 25 |
| Field day | Crop Condition & yield of Sorghum(CSB33MS) | 02 | PF | 01 | OFF | 6 | 0 | 4 | 0 | 40 | 0 | 50 | 0 | 50 |

Frontline demonstration to be conducted*

Crop: Mushroom
Thrust Area: Mushroom Production
Thematic Area: Income Generation
Season: Rabi
Farming Situation: Irrigated

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|------------------------------|--------------------------------|---|---|---|------|--------|--------------------------------|---|----|---|-------|----|-------|----|----|
| | | | | | Name of Inputs | Demo | Loc al | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1. | Mushroom | 25 unit | Spwan, Polythene bag, Bevistin, Rope,Etc. | Yield of Mushroom | Spwan, Polythene bag, Bevistin, Rope,Etc. | | | - | 3 | 0 | 2 | 0 | 20 | 0 | 15 | 25 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|---|-----|-----------|----------|--------------|---------------------|---|----|---|-------|----|-------|----|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Mushroom cultivation and its importance | 01 | PF | 01 | OFF | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 |
| Field day | yield Assessment of Mushroom | 01 | PF | 01 | OFF | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 |

Frontline demonstration to be conducted*

Crop/ Enterprise : Women Empowerment
Thrust Area: Household food Security
Thematic Area: Nutritional security
Season: Kharif/ Rabi
Farming Situation: Irrigated

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|------------------------------|--------------------------------|--|---|---------------------------|-------|--------|--------------------------------|---|----|----|-------|----|-------|----|---|
| | | | | | Name of Inputs | Dem o | Loca l | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1. | Women Empowerment | 25 | Consumption pattern of drum leaves in the diet of adolescent girls, Pregnant women to protect against anemia | Heamoglobin ,Grip strength, enhancement in working efficiency | | | | 0 | 5 | 0 | 10 | - | 10 | - | 25 | |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | | |
|-----------|--|-----|-----------|----------|--------------|---------------------|---|----|---|-------|----|-------|----|----|--|
| | | | | | | SC | | ST | | Other | | Total | | T | |
| | | | | | | M | F | M | F | M | F | M | F | | |
| Training | Importance of Nutritional Kitchen gardening and management | 01 | PF | 01 | OFF | 3 | 2 | 3 | 2 | 10 | 5 | 16 | 9 | 25 | |
| Field day | Assessment Women Empowerment | 01 | PF | 01 | OFF | 6 | 4 | 6 | 4 | 20 | 10 | 32 | 18 | 50 | |

Frontline demonstration to be conducted*

Crop: Wheat
Thrust Area: Development of need based efficient and profitable cropping system
Thematic Area: ICM
Season: Rabi
Farming Situation: Paddy- Wheat/ Maize

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|------------------------------|--------------------------------|--------------------------------------|---|---------------------------|------|-------|--------------------------------|---|----|---|-------|---|-------|---|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1. | Wheat / Sabour Shrestha | 4.0 | Seed | Grain Yield, B:C ratio | Seed | | | 2 | 1 | 2 | 1 | 2 | 2 | 6 | 4 | 10 |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|-----------|--|-----|-----------|----------|--------------|---------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Scientific Cultivation of wheat | 1 | PF | 01 | OFF | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 0 | 25 |
| Field day | Agronomic Package of practices of wheat crop | 1 | PF | 01 | OFF | 6 | 0 | 4 | 0 | 40 | 0 | 50 | 0 | 50 |

Crop: Wheat/Bio-fertilizer
Thrust Area: Adoption of Integrated Nutrient Management for sustainable agriculture
Thematic Area: INM
Season: Rabi
Farming Situation: Paddy-Wheat/maize

| Sl. No. | Crop & variety / Enterprises | Proposed Area (ha)/ Unit (No.) | Technology package for demonstration | Parameter (Data) in relation to technology demonstrated | Cost of Cultivation (Rs.) | | | No. of farmers / demonstration | | | | | | | | |
|---------|---|--------------------------------|--------------------------------------|--|---------------------------|------|-------|--------------------------------|---|----|---|-------|---|-------|---|----|
| | | | | | Name of Inputs | Demo | Local | SC | | ST | | Other | | Total | | |
| | | | | | | | | M | F | M | F | M | F | M | F | T |
| 1 | Wheat & Sabour Shrestha / Bio-fertilizers | 04 ha | 25 | Plant height, Tillers, Grain Yield, Straw yield, B:C ratio | Seed | | | 1 | 0 | 1 | 0 | 8 | 0 | 10 | 0 | 10 |
| | | | | | Bio-fertilizers | | | | | | | | | | | |

Extension and Training activities under FLD:

| Activity | Title of Activity | No. | Clientele | Duration | Venue On/Off | No. of Participants | | | | | | | | |
|------------|--|-----|-----------|----------|--------------|---------------------|---|----|---|-------|---|-------|---|----|
| | | | | | | SC | | ST | | Other | | Total | | |
| | | | | | | M | F | M | F | M | F | M | F | T |
| Training | Impact of bio-fertilizers on wheat yield | 1 | PF | 1 | ON/OFF | 3 | 0 | 2 | 0 | 20 | 0 | 25 | 0 | 25 |
| Field Days | Asses the bio-fertilizers on wheat yield | 1 | PF | 1 | OFF | 6 | 0 | 4 | 0 | 40 | 0 | 50 | 0 | 50 |

a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

| Name of the Crop / Enterprise | Variety / Type | Period From..... to | Area (ha.) | Details of Production | | | | |
|-------------------------------|------------------|------------------------------|------------|-----------------------|--------------------------------|---|-----------------------------|---------------------------|
| | | | | Type of Produce | Expected Production (quintals) | Cost of inputs (Rs.)(including man power) | Expected Gross income (Rs.) | Expected Net Income (Rs.) |
| Paddy | Sabour Shree C/S | July to Oct 2020 | 4.0 | Seed | 100 | 1,60,000.00 | 370000 | 2,10,000 |
| Wheat | Sabour Shrestha | Nov to April 2020-21 | 4.4 | Seed | 105 | 1,32,000.00 | 4,20,000 | 2,88,000 |

b) Village Seed Production Programme

| Name of the Crop / Enterprise | Variety / Type | Period From..... to | Area (ha.) | No. of farmers | Details of Production | | | | |
|-------------------------------|----------------|------------------------------|------------|----------------|-----------------------|------------------------|----------------------|-----------------------------|---------------------------|
| | | | | | Type of Produce | Expected Production(q) | Cost of inputs (Rs.) | Expected Gross income (Rs.) | Expected Net Income (Rs.) |
| | | | | | | | | | |
| | | | | | | | | | |

14. Extension Activities

Extension Activities

| Name of Extension Activities | No. | Participants |
|-------------------------------------|------------|---------------------|
| Field Day | 15 | 350 |
| Kisan Mela | 1 | 500 |
| Kisan Ghosthi | 5 | 250 |
| Kisan Chaupal | 20 | 500 |
| Exhibition | 1 | 100 |
| Film Show | 6 | 150 |
| Method Demonstrations | 1 | 75 |
| Farmers Seminar | 1 | 50 |
| Workshop | 1 | 150 |
| Group meetings | 5 | 200 |
| Scientific visit to farmers field | 50 | 250 |
| Farmers visit to KVK | 500 | 500 |
| Diagnostic visits | 10 | 150 |
| Exposure visits | 1 | 50 |
| Ex-trainees Sammelan | 1 | 50 |
| Soil health Camp | 2 | 100 |
| Animal Health Camp | 2 | 150 |
| Self Help Group Conveners meetings | 8 | 150 |
| Celebration of important days | 5 | 300 |
| Total | 635 | 4025 |

15. Revolving Fund (in Rs.)

| Opening balance of 2019-2020 (As on 01.04.2019) | Amount proposed to be invested during 2020-21 | Expected Return |
|--|--|------------------------|
| 1650072.09 | 2,92,000.00 | 4,98,000.00 |

16. Expected fund from other sources and its proposed utilization

| Project | Source | Amount to be received (Rs. in lakh) |
|--------------------------|-------------------------|--|
| GKMS | ICAR | 17,00,000.00 |
| BioTech Kisan Hub | ICAR | 15,00,000.00 |
| BSDM | BAMETI | 6,00,000.00 |
| Kisan Chaupal | Bihar Government | 5,20,000.00 |

17. On-farm trials to be conducted*
ON FARM TRIAL (2020-21)

OFT-1 Agronomy

| | | |
|-----------|--|--|
| 1. | Title of On farm Trial | Weed management in jute |
| 2. | Problem diagnosed | Weed causes huge reduction (upto 70 %) in fibre yield of jute as it reduces input efficiency, interferes with agricultural operations and impairs quality and acts as alternate hosts for several insects and pests |
| 3. | Details of technologies selected for assessment/refinement (Mention either Assessed or Refined) | TO₁ : Farmers Practice (one hand weeding at 25-30 DAS) TO₂ : Pendimethaline 30% EC @ 525gm a.i./ha (within 48 hours of sowing) + one hand weeding at 15 DAS TO₃ : Quizalofop ethyl 5 % EC @ 600 gm a.i./ha + Ethoxy sufuron 15% WDG @ 50 gm a.i./ha at 15 DAS + one hand weeding at 30 DAS |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | JRS, Katihar |
| 5. | Production system and thematic area | Jute-Maize/ Mustard and Weed management |
| 6. | Performance of the Technology with performance indicators | (i) Weed biomass(gm/m²) at 15 DAS, 35 DAS and 45 DAS (ii) Plant height (cm), basal diameter (cm) (iii) Fiber yield (q/ha) (iv) Gross return (Rs./ha), net return (Rs./ha), B:C ratio |
| 7. | Design | RBD |
| | Plot Size | 0.1 ha |
| | Replication | 10 |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | |

OFT (Agronomy)

| | | |
|----|--|---|
| 1. | Title of On farm Trial | To assess the mitigation of cold injury of Boro Paddy in nursery |
| 2. | Problem diagnosed | Cold injury of Boro Paddy in nursery limiting the yield potential due to low germination, slow growth, leaf yellowing and stunted growth |
| 3. | Details of technologies selected for assessment/refinement (Mention either Assessed or Refined) | TO₁: Farmers Practice (No efforts for preventing cold injury in nursery) TO₂: Recommended dose of N & K (1.0 kg N & 1.0 kg K₂O/100 m² area) + double dose of P₂O₅ (2.0 kg P₂O₅/100 m² area) TO₃: TO₂ + irrigating nursery in morning and let out water in evening |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | A.N.G.R.A.U, Hyderabad |
| 5. | Production system and thematic area | Paddy-Maize/ Mustard Nursery management |
| 6. | Performance of the Technology with performance indicators | (i) Root length (cm) at 15 DAS, 30 DAS (ii) Shoot length (cm) at 15 DAS, 30 DAS (iii) Seedling height (cm) at 15 DAS, 30 DAS |
| 7. | Design | RBD |
| | Plot Size | 0.10 ha |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | |

OFT – 1: Soil Science

| | |
|-------------------------------|--|
| Title | Assessment of Boron and Molybdenum on Growth, Yield and Quality of Cauliflower (<i>Brassica oleracea</i> L. var. botrytis) |
| Thematic Area | Integrated Nutrient Management |
| Problem diagnosed | Death of young leaves, stem becomes hollow with the cavity surrounded by water soaked tissues and some curds change to rusting brown in Mo & B deficient Soil. |
| Important Cause | Hollow Heart diseases |
| Production system | Vegetable- Vegetable based production system. |
| Micro farming system | Vegetable- vegetable |
| Technology for Testing | Assessment of Boron and Molybdenum in Cauliflower |
| Existing Practice | Farmers practice |
| Hypothesis | Improve Farmer income |
| Objective | To management of Hollow Heart Disease of Cauliflower |
| Treatments | TO_1 – Farmer Practices (180:40:20 :: N:P:K) TO_2 – 120:60:60 :: N:P:K) + 20 t/ha FYM TO_3 – 120:60:60 :: N:P:K) + 20 t/ha FYM + 20 kg/ha Borex and 2 kg/ha Mo |
| Critical Inputs | Seed, Nutrients, chemicals |
| Unit Size | 0.10 ha |
| No of Replications | 10 |
| Monitoring Indicator | <p>Technical Observation: Initial and Final Soil Nutrient Status, Plants growth and yield attributes {Days after 50 % Curd Initiation(DACI), Days after 50 % Curd Maturity (DACM), Curd Maturity Duration (CMD), Marketablecurd weight (g), Curd length (cm), Plant height (cm), Curd diameter (cm), Yield of marketable curd($t\ ha^{-1}$) }</p> <p>Economic Indicators: Net return, B:C ratio</p> |
| Source of Technology | IIVR Varanasi |

| | |
|-------------------------------|---|
| Title | Assessment the liquid and carrier based bio-fertilizers on performance of transplanted rice and soil properties |
| Thematic Area | Integrated Nutrient Management |
| Problem diagnosed | Less uses of bio-fertilizers and deficient of soil properties |
| Important Cause | Higher doses of urea application |
| Production system | Rice based production system. |
| Micro farming system | Rice-Wheat-Green gram |
| Technology for Testing | Assessment of Liquid bio-fertilizers in Paddy |
| Existing Practice | Farmers practice |
| Hypothesis | Application of liquid fertilizers may increase the yield of rice & improve the soil health. |
| Objective | To improve rice yield and soil health. |
| Treatments | TO ₁ : Farmers Practice (150:20:10 :: N:P:K with minimum uses of bio-fertilizers) TO ₂ : RDF [120:60:40] (80% of N +80 % of P + 100% of K) + Soil application of liquid bio-fertilizer (750 ml/ha Liquid azotobactor + 750 ml/ha Liquid PSB) TO ₃ : RDF [120:60:40] (80% of N +80 % of P + 100% of K) + Soil application of bio-fertilizer (5kg/ha azotobactor + 5kg/ha PSB) |
| Critical Inputs | Seed, Bio-fertilizers and Fertilizer |
| Unit Size | 0.10 ha |
| No of Replications | 10 |
| Unit Cost | |
| Total Cost | |
| Monitoring Indicator | Technical Observation: Initial and Final Soil Nutrient Status, plant growth and yield attributes (Height (cm), Number of tillers/hill, Number of Panicles/m ² , 1000 Grain Weight), Yield (q/ha) Economic Indicators: Net return, B:C ratio |
| Source of Technology | BAU, Sabour |

OFT – 3: Soil Science

| | |
|---------------------------|--|
| Title | Evaluation of Azolla and BGA on rice yield and soil health. |
| Thematic Area | Integrated Nutrient Management |
| Problem diagnosed | Poor soil fertility status in soil. |
| Important Cause | Low rice yield due poor soil fertility status. N (180-230 kg/ha) P (7.6-10.2 kg/ha) K (110-118 kg/ha) |
| Production system | Rice based production system. |
| Micro farming system | Rice-Wheat-Green gram |
| Technology for Testing | Application of Azolla and BGA in low land rice field. |
| Existing Practice | No application of BGA and Azollain rice field. |
| Hypothesis | Application of BGA and Azollamay increase the yield of rice & improve the soil health. |
| Objective | To improve rice yield and soil health. |
| Treatments | TO ₁ : Farmers' Practice (96:56:16 kg/ha N:P ₂ O ₅ :K ₂ O) TO ₂ : FP+BGA @ 10 kg/ha TO ₃ : RDF 75% N (90:60:40 kg/ha N:P ₂ O ₅ :K ₂ O)+BGA@ 10Kg/ha TO ₄ : RDF 75%N (90:60:40 kg/ha N:P ₂ O ₅ :K ₂ O)+ Azollz@10ton/ha |
| Critical Inputs | Seed, Liquid fertilizers and Fertilizer |
| Unit Size | 0.10 ha |
| No of Replications | 10 |
| Monitoring Indicator | Technical Observation: Initial and Final Soil Nutrient Status, plant growth and yield attributes (Height (cm), Number of tillers/hill, Number of Panicles/m ² , 1000 Grain Weight), Yield (q/ha) Economic Indicators: Net return, B:C ratio |
| Source of Technology | BAU, Sabour |

OFT – 4: Soil Science

| | |
|-------------------------------|--|
| Title | Evaluation of ST-TY (Soil Test Targeted Yield) based on nutrient management in Jute |
| Thematic Area | Integrated Nutrient Management |
| Problem diagnosed | Low yield due to imbalance application of nutrients |
| Important Cause | Injudicious Uses of Fertilizer |
| Production system | Jute-Mustard based production system. |
| Micro farming system | Jute-mustard- rice |
| Technology for Testing | STTY |
| Existing Practice | Farmers practice |
| Hypothesis | Targeted yield (35 qtha ⁻¹) |
| Objective | Improve the area of jute |
| Treatments | TO ₁ – Farmer Practices (23:20:15 :: N:P:K) TO ₂ – ST-TY (35 q/ha) = 123:49:27:: N:P:K TO ₃ - ST-TY (35 q/ha) = 83:35:19:: N:P:K + FYM @ 5 t/ ha |
| Critical Inputs | Seed, Nutrients, chemicals |
| Unit Size | 0.10 ha |
| No of Replications | 10 |
| Unit Cost | |
| Total Cost | |
| Monitoring Indicator | Technical Observation: Initial and Final Soil Nutrient Status, Plants growth and fiber yield attributes (Height (cm), Diameter of tillers), , fiber Yield (q/ha) Economic Indicators: Net return, B:C ratio |
| Source of Technology | BAU, Sabour |

OFT -1 Horticulture

| S.N. | Topic | Description |
|------|--|---|
| 1. | Title | Enhancement of fruit set and reduction in fruit drop through foliar application of Boron and Sorbitol in Mango |
| 2. | Problem Diagnose | Minimum the fruit set and maximum fruit drop as well as low fruit yield |
| 3. | Detail the technology selected for assessment / refinement | Technology Option Farmers Practice- No Spray TO ₁ - Boric Acid (B0.02%) TO ₂ - Boric Acid (B0.02%)+ Sorbitol(2.0 % fine sorbitol) *when 50 % of the flowers on the inflorescence bloomed. |
| 4. | Source of technology | BAU, Sabour and AICRP on Fruits, Bangaluroo |
| 5. | Replication | 07 |
| 6. | Technical indicator | <ol style="list-style-type: none"> 1. Date of First Fruit set 2. Fruit drop(%) 3. No. of the fruit/plants 4. Average fruit weight 5. Fruit yield (t/ha) 6. Benefit Cost Ratio |

OFT -2 Horticulture

| S.N. | Topic | Description |
|------|--|--|
| 1. | Title | Measures to management of Panama Wilt of Banana. |
| 2. | Farming Situation | Irrigated |
| 3. | Hypothesis formulated | Suitable plant protection technique reduces yield loss due to disease. |
| 4. | Experiment Design | RBD |
| 5. | Detail the technology selected for assessment / refinement | <p>Technology Option</p> <p>TO₁- Carbendazim 50WP @3g/ liter of water (Drenching the soil near root zone at 15 days interval for three times in standing crop)</p> <p>TO₂- Application of Trichodermaharzianum @ per liter of water (Drenching the soil near root zone at 15 days interval for three times in standing crop)</p> <p>TO₃- Mass multiplication of trichoderma with FYM (Trichodermaharzianum1 Kg + FYM 50 Kg) applied near root zone of the plants @ 250 g per plant at one month interval for four times.</p> <p>TO₄- Mass multiplication of trichoderma with compost (Trichodermaharzianum 1 Kg + decomposed banana pseudo stem 50 Kg) applied near root zone of the plants @ 250 g per plant at one month interval for four times.</p> |
| 6. | Replication | BAU, Sabour |
| 7. | Plot Size | 0.4 ha |
| 8. | Observation Parameter | <ol style="list-style-type: none"> 1. Disease (%) 2. Yield q/ha 3. B:C ratio |
| 10. | Critical Input | Fungicide (Carbendazim 50WP) & Bio – agents |

Field Study-1 Extension Education

| Field Study 1. Assessment of knowledge gain by farmers in respect to paddy production technology through whats App messages. | |
|--|---|
| Problem Diagnose | Lack of Technical knowledge for farmers as per need |
| Thematic Area | Information communication technology |
| Detail of technology | Farmers participated in whats App group |
| Farmers Practices(T ₁) | Existing agricultural technical knowledge |
| Recommended Tech(T ₂) | KVK Whats App messages |
| Performance parameter | <ol style="list-style-type: none"> 1. Need and time based information. 2. Use of soil Health Card 3. Application of the whats App messages 4. Knowledge gain by the farmers 5. Selection of variety 6. Weed Management 7. Insect Pest Management 8. Harvesting 9. Yield 10. Marketing |

Field Study -2 Extension Education

| Field study II Study on awareness and perception of farmers regarding Soil Health Card | |
|--|--|
| Problem Diagnose | Farmers unawareness about soil health card |
| Thematic Area | Soil fertility Management |
| Detail of technology | Production technologies |
| Farmers Practices(T_1) | Farmers not using Soil Health card (100 farmers) |
| Recommended Tech(T_2) | Farmers using soil health card (100 farmers) |
| Performance parameter | <ol style="list-style-type: none"> 1. Difficulty in calculating fertilizer dose on the basis of nutrient status of soil 2. Time gap between soil samples taken & issuing cards was too high 3. Received SHC after crop harvest 4. Collection of soil sample was not done in presence of farmer 5. Inability to understand all the information given in the card 6. Use of fertilizers Pattern 7. Use of Micronutrients Pattern 8. Increase in Productivity |

18. List of Projects to be implemented by funding from other sources (other than KVK fund)

| Sl. No. | Name of the project | Fund expected (Rs.) |
|---------|---------------------|---------------------|
| 1 | GKMS | 17,00,000.00 |
| 2 | BioTech Kisan Hub | 15,00,000.00 |
| 3 | BSDM | 6,00,000.00 |
| 4 | Kisan Chaupal | 5,20,000.00 |

19. No. of success stories proposed to be developed with their tentative titles - 05

- 1) Beekeeping
- 2) Mushroom Production
- 3) Vermi Compost Production
- 4) Pulse Production
- 5) High Value crop Cultivation (Dragon fruit , Strawberry, etc)

20. Scientific Advisory Committee

| Date of SAC meeting held during 2019-20 | Proposed date during 2020-21 |
|---|------------------------------|
| 26.07.2019 | 15-12-2020 |

21. Soil and water testing



| Details | No. of Samples | No. of Farmers | | | | | | | | | No. of Villages | No. of SHC distributed |
|---|----------------|----------------|---|----|---|-------|---|-------|-----|------|-----------------|------------------------|
| | | SC | | ST | | Other | | Total | | | | |
| | | M | F | M | F | M | F | M | F | T | | |
| pH, ECe, OC, N, P, K, Ca, Mg, Na, CO ₃ , HCO ₃ , SO ₄ , Cl, Fe, Mn, Zn, B. | 1000 | - | - | - | - | - | - | 900 | 100 | 1000 | 80 | 1000 |



22. Fund requirement and expenditure (Rs.)*



| Item | Fund required for 2020-21 |
|-----------------------|---------------------------|
| Pay & Allowance | 1,25,00,000.00 |
| Contingency | 12,00,000.00 |
| Equipment & furniture | 10,00,000.00 |


* Any additional requirement may be suitably justified.

23. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data

| Sl. No. | Name of the Technology | Brief Details of Technology (3- 5 bullet points) | Net Return to the farmer (Rs.) per ha per year due to the technology | No. of farmers adopted the technology in the district | One high resolution 'Photo' in 'jpg' format for each technology |
|---------|---|--|--|---|---|
| 1 | Bee Keeping with improved technologies | <ul style="list-style-type: none"> • Italian Bee Keeping • Processing of honey at farmers group level • Marketing through group approach / FPO • Branding at farmer's end | 80,000-1,00,000 | 200-300 |  |
| 2 | Seed production through group approach | <ul style="list-style-type: none"> • Seed production technology transferred to farmers through training programme. • Seed provided to farmers during various FLD and CFLD and encourage them to keep and sell the produced seed to other farmers in the next season • Farmers are getting improved seed | 20,000-50,000 | 350-600 |  |

| | | | | | |
|---|--|---|---------------|---------|--|
| 3 | Organic Farming Practices | <ul style="list-style-type: none"> • Uses of green manuring, FYM, Bio fertilizers, azolla for soil and crop health management. • Uses of low Cost organic Pesticides with the use of Cow Urine, dung & neem etc. • Uses of low cost nutrient management i.e. Jivamrit etc. | 60,000-70,000 | 700-800 |  |
| 4 | Microbial Consortium for improved retting of Jute | <ul style="list-style-type: none"> • This is consortium with microbial formulation used retting process of jute in stagnant water. • It can reduce the retting period by 5-7 days from conventional retting process • increase the yield by 15-20% • Improves quality of fibre by 1-2 grade point and ultimately increase farmer's income | 8,000-10,000 | 300-400 |  |
| 5 | Micro Irrigation in Banana | <ul style="list-style-type: none"> • It Shave water and energy • Less Labour require in a unit of land resulting minimising cost of cultivating • Less infesting of weeds Shane weeding cost • Minimise wilting | 70,000-80,000 | 300-400 | |

| | | | | | |
|---|----------------------------------|---|---------------|---------|---|
| | | <p>disease of banana</p> <ul style="list-style-type: none"> Fruit quality improve as fruit weight long fruit size resulting income increase | | | |
| 6 | Integrated Farming System | <ul style="list-style-type: none"> Uses different synergic blending of Crop, Horticultural, Dairy, Fisheries, Poultry etc Employment to other local farmers Decrease cost of cultivation Multiple uses of resource and providing much needed resilience for predicated climate change, scenario | 2,00,000 | 200-300 |  |
| 7 | Backyard poultry | <ul style="list-style-type: none"> Rearing high yielding dual purpose breed like Vanraja (30 - 40 bird per unit) Feeds uses for the purpose low cost locally available feed Scientific management of poultry (proper vaccination and medication) | 20,000-30,000 | 200-300 |  |

| | | | | | |
|---|---------------------------|--|--------------------------|---------|--|
| 8 | Mushrom Production | <ul style="list-style-type: none">• Income and Employment generation• provide food and nutritional security• Quick and high return | 73000(one thousand Bags) | 300-400 |  |
|---|---------------------------|--|--------------------------|---------|--|