PROFORMA FOR ANNUAL REPORT OF KVKS, 2019-20

<u>1. GENERAL INFORMATION ABOUT THE KVK</u>

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

| Address | Telephone | | E mail |
|--|--------------|---------------|----------------------|
| | Office | FAX | |
| Krishi Vigyan Kendra, Dhubri, P.O. Box No 1, Bilasipara – 783348, Dhubri, Assam GPS Location : N= 26° 14' 18'' E= 90° 14' 34'' | 03667-250083 | 03667-250F083 | kvk_dhubri@aau.ac.in |

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

| Address | Telephone | | E mail |
|--------------------------------|--------------|--------------|---------------|
| | Office | FAX | |
| Assam Agricultural University, | 0376-2340001 | 0376-2340001 | dee@aau.ac.in |
| Jorhat -785013, Assam | | | |

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

| Name | Telephone / Contact | | | | |
|----------------------|---------------------|------------|-----------------------------|--|--|
| | Residence | Mobile | Email | | |
| Dr. Chandan Kr. Deka | NA | 8638471840 | drchandan.kr.deka@aau.ac.in | | |

1.4. Year of sanction: 30-06-2006

1.5. Staff Position (As on 31st March, 2020)

| Sl. No | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale (Rs.) | Presen t basic (Rs.) | Date of joinin g | Permanent /Temporar y | Categor y (SC/ST/ OBC/ Others) |
|-----------|---------------------------------|-------------------------|---------------------------------|------------------|-----------------------|----------------------------|---------------------------|-----------------------------|--|
| 1 | Sr. Scientist | Dr. Chandan Kr. Deka | Sr. Scientist | Argil. Extn. Ed. | 37400 | 14790 | 07-08- | Permanent | Other |
| | æ meau | KI. Deka | æ medu | | -0700 | 0 | 2015 | | |
| 2 | Subject Matter Specialist | Mr. Abhijit Paul | Subject Matter Specialist | Fishery Science | Level- 9 | 61300 | 28-01- 2014 | Permanent | OBC |
| 3 | Subject Matter Specialist | Vacant | Subject Matter Specialist | Animal Science | - | - | - | - | - |
| 4 | Subject Matter Specialist | Vacant | Subject Matter Specialist | Agronomy | - | - | - | - | - |
| 5 | Subject | Ms. | Subject | Soil Sc | Level- | 59500 | 24-05- | Permanent | Others |
| | Matter | Neelakshi Bhuwan | Matter | | 9 | | 2018 | | |
| 6 | Subject | Mr. Ghana | Subject | Agril Econ & | Level- | 57800 | 10-08- | Permanent | Other |
| | Matter | Kanta | Matter | FM | 9 | | 2018 | | |
| | Specialist | Sarma | Specialist | | | | | | |
| 7 | Subject | Mr. Bipul | Subject | Plant | Level- | 57800 | 10-08- | Permanent | OBC |
| | Matter | Kr. Das | Matter | Protection | 9 | | 2018 | | |

| | Specialist | | Specialist | | | | | | |
|-----|----------------|---------------|--------------|------------------|--------|-------------|--------|-----------|-------|
| 8 | Subject | Mr. Bikash | Subject | Agrometerolog | Level- | 57700 | 05-08- | Permanent | MOBC |
| | Matter | Jyoti | Matter | У | 9 | | 2019 | | |
| | Specialist | Gharphalia | Specialist | | | | | | |
| | | 1 | (Under | | | | | | |
| | | | GKMS) | | | | | | |
| 9 | Programme | Ms. | Programme | Agriculture | Level | 36500 | 02-11- | Permanent | OBC |
| | Assistant | Nabanita | Assistant | | - 6 | | 2018 | | |
| | | Nath | | | | | | | |
| 10 | Farm | Mr. Kuladip | Farm | Agriculture | Level | 35400 | | Permanent | |
| | Manager | Talukdar | Manager | | - 6 | | | | |
| 11 | Computer | Mr.Dipanka | Computer | Computer | Level | 42300 | 12-9- | Permanent | MOBC |
| | Programmer | r Bora | Programmer | Science | - 6 | | 2011 | | |
| 12 | Accountant / | Mr. Sudipta | Accountant / | Commerce | Level | 41100 | 28-08- | Permanent | Other |
| | Superintende | Suman | Superintende | | - 6 | | 2015 | | |
| | nt | | nt | | | | | | |
| 13 | Stenographer | Ms. | Stenographer | - | Level | 32300 | 23-3- | Permanent | Other |
| | (Attached to | Saraswatı | | | - 5 | | 2012 | | |
| | DSW) | Prasad | | | | | | | |
| 1.4 | | Rawat | | | x 1 | • • • • • • | | | 0.1 |
| 14 | Driver | Mr. Akbar | Driver | - | Level | 26800 | 21-2- | Permanent | Other |
| 1.5 | D . | Ali | D . | | - 4 | 22100 | 2012 | D | 0.1 |
| 15 | Driver | Mr. Mansur | Driver | - | Level | 23100 | 12-05- | Permanent | Other |
| | | Ranman | | | - 4 | | 2018 | | |
| 16 | G | | C | | 14000 | 52940 | 25.2 | Democrat | Other |
| 16. | Supporting | Mr. Allul | Supporting | - | 14000 | 53840 | 25-3- | Permanent | Other |
| | stan | Islam | starr | | - | | 1985 | | |
| 17 | Summer setting | Mr. Coffiend | Suma antin a | | 49000 | 11280 | 17.12 | Demaran | Othan |
| 1/ | stoff | Ivir. Saliqui | supporting | - | 14000 | 44380 | 2007 | Permanent | Other |
| | stall | Islalli | stall | | 40000 | | 2007 | | |
| 18 | Agromet | Mr. Hirok | Agromet | B Sc (Physics) | +9000 | 21700 | 03-07 | Permanent | Other |
| 10 | Observer | Ivoti Das | Observer | D.Se. (1 Hysics) | | 21700 | 2019 | | |
| | | 5 jou Dus | (Under | | | | 2017 | | |
| | | | GKMS) | | | | | | |
| | Total | 16 | | | | | | | |

1.6. a. Total land with KVK (in ha) :13.36 ha

(Remarks: KVK Dhubri is officiating from rented house)

- b. Total cultivable land with KVK (in ha): Nil
- c. Total cultivated land (in ha):

| S. No. | Item | Area (ha) |
|--------|--|-----------|
| 1 | Under Buildings (Administrative building+ Farmers' Hostel+ Staff | - |
| | Quarters) | |
| 2. | Under Demonstration Units | - |
| 3. | Under Crops (Cereals, pulses, oilseeds etc.) | - |
| 4. | Under vegetables | - |
| 5. | Orchard/Agro-forestry | - |
| 6. | Others (specify) | - |

1.7. Infrastructural Development :(Remarks: KVK Dhubri is officiating from rented house)

A) Buildings

| | | Source | Stage | | | | | | |
|-----------|---------------------|---------|--------------------|--------------------------|----------------------|------------------|--------------------------|------------------------|--|
| S | | of | | Complete | | | Incompl | ete | |
| S. No. | Name of building | funding | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction | |
| 1. | Administrative | | | | | | | | |
| | Building | | | | | | | | |
| 2. | Farmers Hostel | | | | | | | | |
| 3. | Staff Quarters (6) | | | | | | | | |
| 4. | Demonstration Units | | | | | | | | |
| | (2) | | | | | | | | |
| 5 | Fencing | | | | | | | | |

B) Vehicles

| Type of vehicle | Regd. No. | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|------------------------|--------------|---------------------|--------------|----------------|----------------------|
| Mahindra Four Wheeler | AS 03 E 0031 | 2006 | 4,90,503.00 | 1,73,278 | In running condition |
| Mahindra Marazzo 8 STR | AS01 EB 3324 | 2019 | 12,00,000.00 | 11533 | In running |
| | | | | | condition |

C) Equipments & AV aids

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|-----------------------|------------------|------------|----------------|
| HP LaserJet (MFP) | 2019 | 45000.00 | Working |
| Laptop | 2019 | 54000.00 | Working |
| Desktop Computer | 2019 | 99000.00 | Working |
| Fax Machine | 2010 | 15,190.00 | Working |
| Photocopier Machine | 2010 | 101920.00 | Working |
| Desktop Computer | 2010 | 55,094.00 | Working |
| Laser Printer | 2010 | 13000.00 | Working |
| Scanner | 2010 | 2,724.00 | Not Working |
| LCD Projector | 2017 | 49680.00 | Working |
| Price Ticker Board | 2010 | 90,800.00 | Not Working |
| DSLR Camera | 2017 | 49820.00 | Working |
| VSAT System | 2009-10 | 78,014.56 | Not working |

1.8. A). Details SAC meeting conducted in the year 2019-20

SAC meeting for KVK, Dhubri is not yet held in the financial year 2019-20 due to Lock down for Covid-19 problem.

2. DETAILS OF DISTRICT

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

| Sl. No | Farming system/enterprises |
|--------|---|
| 1. | Agriculture—Horticulture |
| 2. | Agriculture—Animal Husbandry |
| 3. | Agriculture Fishery |
| 4. | Agriculture—Horticulture Animal Husbandry |
| 5. | Agriculture—Horticulture—Fishery |
| 6. | AgricultureFishery—Animal Husbandry |
| 7. | Agriculture—Horticulture—Fishery—Animal Husbandry |

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

| Sl. No | Agro-climatic Zone | Characteristics |
|--------|-------------------------------|---|
| 1 | Lower Brahmaputra Valley Zone | The soil of the zone is mostly acidic in nature and pH increases towards the river Brahmaputra. The soil is medium to high in Organic carbon and available N, low in available P and medium in K status. The climate is sub-tropical in nature with warm and humid summer followed by dry and cool winter. Average rainfall is 3000 mm. Mean maximum temperature range is 33-38 °C and minimum temperature is 9-10 °C |

2.3 Soil types

| Sl. No | Soil type | Characteristics | Area in ha |
|--------|----------------|---|------------|
| 1 | Sandy loam | Characterized with 50-60% sand, less WHC and CEC, high infiltration rate and hydraulic | 14151 |
| | | conductivity | |
| 2 | Sandy | Characterized with more than 80% sand less WHC and CEC, high infiltration rate and hydraulic | 1248 |
| | | conductivity low organic matter, less suitable for crops | |
| 3 | Tilla/Red soil | Characterized with predominance of oxide of Fe and AL, lacks crystalline structure, high acidic, high | 3307 |
| | | P fixation low infiltration rate and less hydraulic conductivity less CEC, less productive relatively | |
| | | suitable for long duration Horticulture and plantation crops | |
| 4 | Clay Loam | Characterized with 30-35% clay, high WHC and CEC low infiltration rate and hydraulic conductivity | 5118 |
| 5 | Clay | Characterized with 50-55% clay high WHC and CEC low infiltration rate and hydraulic conductivity | 1729 |

| 2.4. | Area, Production and | d Productivity | of major cro | ps cultivated in | the district |
|------|---|----------------|----------------|--|--------------|
| | 11100,110000000000000000000000000000000 | | 01 1110 01 010 | pb • • • • • • • • • • • • • • • • • • • | |

| Sl. No | Сгор | Area (ha) | Average yield (q/ha) | Production (q/ha) |
|--------|----------------------|-----------|----------------------|-------------------|
| 1. | Winter Paddy (Sali) | 38972 | 2005 | 503518 |
| 2. | Early Ahu | 51015 | 2940 | 193213 |
| 3. | Jute | 12690 | 1962 | 128294 |
| 4. | Maize | 1436 | 3333 | 3209 |
| 5. | Blackgram (Kharif) | 3250 | 648 | 21060 |
| 6. | Rapeseed and Mustard | 23450 | 667 | 156411 |
| 7. | Potato | 9440 | 7499 | 70790 |
| | | | | |

2.5. Weather data

| Month | Rainfall (mm) | Temperature ⁰ C | | Relative Humidity (% | b) |
|-----------------|---------------|----------------------------|---------|----------------------|------------|
| | | Maximum | Minimum | Morning | Evening |
| April, 2019 | 178.9 | 29.4 | 22.4 | 82 | 72 |
| May, 2019 | 281.9 | 27.9 | 23.1 | 88 | 83 |
| June, 2019 | 297.8 | 32.9 | 26.1 | 85 | 79 |
| July, 2019 | 354.1 | 31.2 | 26.4 | 89 | 87 |
| August, 2019 | 457.9 | 32.7 | 27.4 | 83 | 79 |
| September, 2019 | 340.3 | 31.4 | 26.1 | 89 | 78 |
| October, 2019 | 130.2 | 29.9 | 23.7 | 88 | 73 |
| November, 2019 | 18.9 | 28.2 | 20.5 | 85 | 69 |
| December, 2019 | 0.6 | 27.5 | 19.7 | 86 | 69 |
| January, 2020 | 0 | 23.5 | 13.1 | 83 | 63 |
| February, 2020 | 4.4 | 24.5 | 15.9 | 86 | 68 |
| March, 2020 | 24.5 | 29.2 | 19.0 | 74 | 57 |

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

| Category | Population | Production | Productivity | | | | | | | | |
|------------|------------|------------|--------------------|--|--|--|--|--|--|--|--|
| | Cattle | | | | | | | | | | |
| Crossbred | 3758 | 38554128 | 1.056 L/day/animal | | | | | | | | |
| Indigenous | 505200 | | | | | | | | | | |
| Buffalo | 21564 | 5827094 | 1.596 L/day/animal | | | | | | | | |
| | S | heep | | | | | | | | | |
| Crossbred | - | NA | NA | | | | | | | | |
| Indigenous | 114320 | NA | NA | | | | | | | | |
| Goats | 215844 | 306075 | 8.39 kg/animal | | | | | | | | |

| Pigs | | | | | | | |
|-------------------|--------|---------------|-------------------|--|--|--|--|
| Crossbred | | 257472 | 70.5 kg/animal | | | | |
| Indigenous | 8121 | 237472 | | | | | |
| Rabbits | | | | | | | |
| Poultry | | | | | | | |
| Hens | | 22207040 Nos | 117 Nos/bird/year | | | | |
| Desi | 692122 | 25297040 1008 | | | | | |
| Improved | 340131 | 284232 | 1.8 kg/bird | | | | |
| Ducks | - | - | - | | | | |
| Turkey and others | - | - | - | | | | |

| Category | Area | Production | Productivity |
|----------|----------|------------|--------------|
| Fish | 66647 ha | 9688 MT | 0.551 MT/ha |
| Marine | - | - | - |
| Inland | 66647 ha | 12184 MT | 0.183 MT/ha |
| Prawn | - | - | - |
| Scampi | - | - | - |
| Shrimp | - | - | - |

Note: Pl. provide the appropriate Unit against each enterprise

2.6 Details of Operational area / Villages (2019-20)

| Sl. No. | Taluk/ Eleka | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified thrust area |
|------------|-----------------|----------------------|------------------------|---|---|---|
| 1 | Sapatgram | Mahamaya | Sonamoyee | Rice, toria, Black gram& Winter vegetables | 1.Lack of suitable micronutrient management practices in rice 2.Lack of suitable moisture conservation practices in toria | 1.Micronutrient Management 2.Moisture Conservation Tillage |
| 2 | Sapatgram | Mahamaya | Rabantari | Rice, toria, Black gram & Winter vegetables | Lack of suitable micronutrient management practices in rice | Micronutrient Management |
| 3 | Sapatgram | Mahamaya | Dhanpur | Rice, toria, Blackgram, Wheat, Dairy & Winter vegetables | 1.Lack of suitable micronutrient management practices in rice 2. Lack of suitable micronutrient management practices in wheat | 1.Micronutrient Management in rice 2.Micronutrient Management in wheat |
| 4 | Sapatgram | Mahamaya | Khalisatari | Rice, toria, Black gram, Wheat, Dairy& Winter vegetables | 1.Lack of suitable micronutrient management practices in rice 2. Lack of suitable moisture conservation practices in toria | 1. Micronutrient Management 2. Moisture Conservation Tillage |

6

| 5 | Bilasipara | Ward No.9 | Hakama | Rice, toria, Black gram & Winter vegetables | Lack of suitable micronutrient management practices in rice- | Micronutrient Management |
|----|------------|------------|-------------|---|--|----------------------------------|
| | | | | - | rapeseed sequence | |
| 6 | Sapatgram | Mahamaya | Rabantari | Rice, toria, Black gram & Winter | Lack of suitable micronutrient | Micronutrient Management |
| | | | | vegetables | management practices in rice- | |
| | | | | | rapeseed sequence | |
| 7 | Howdartari | Raniganj | Sibardabri | Rice, toria, Black gram & Winter | 1.Lack of suitable micronutrient | 1.Micronutrient Management |
| | | | | vegetables | management practices in rice- | 2. Moisture Conservation Tillage |
| | | | | | rapeseed sequence | |
| | | | | | 2. Lack of suitable moisture | |
| 8 | Alengmari | Ranigani | Navapara | Rice, toria, Black gram, Jute, wheat& | 1 Lack of suitable micronutrient | 1 Micronutrient Management |
| | 8 | 89 | | Winter vegetables | management practices in rice- | 2.Biofertilizer |
| | | | | | rapeseed sequence | |
| | | | | | 2.Lack of suitable INM practices in | |
| | | | | | wheat | |
| 9 | Barkanda | Mahamaya | Bowalkamri | Rice, toria, Black gram, Jute, wheat & | 1.Lack of suitable INM practices in | 1.Biofertilizer |
| | | | (Part-2) | Winter vegetables | wheat 2 Look of suitable moisture | 2. Moisture Conservation Tillage |
| | | | | | conservation practices in toria | |
| 10 | Barkanda | Mahamaya | Salbandha | Rice, toria, Black gram, Jute, wheat & | Lack of suitable INM practices in | Biofertilizer |
| | | | | Winter vegetables | wheat | |
| 11 | Futkibari | Raniganj | Futkibari | Rice, toria, Black gram, Jute, wheat & | Lack of suitable INM practices in | Biofertilizer |
| | | | | Winter vegetables | wheat | |
| 12 | Lakhiganj | Raniganj | Lakhiganj | Rice, toria, Black gram, Jute & | Low productivity of toria due to | Nutrient Management |
| | | | | Winter vegetables | imbalanced crop nutrition | |
| 13 | Salkocha | Chapar- | Harkata | Rice, toria, Black gram, Jute & | Lack of suitable moisture | Moisture Conservation Tillage |
| | | Salkocha | Muslim Gaon | Winter vegetables | conservation practices in toria | |
| 14 | Kadamtala | Nayer Alga | Sagunmari | Rice, toria, Black gram, Jute & | Lack of suitable moisture | Moisture Conservation Tillage |
| | | | (Part-3) | Winter vegetables | conservation practices in toria | |
| 15 | Kadamtala | Nayer Alga | Kadamtala | Rice, toria, Black gram, Jute & | Lack of suitable moisture | Moisture Conservation Tillage |
| | | | | Winter vegetables | conservation practices in toria | |
| 16 | Asarikandi | Debitola | Asarikandi | Rice, toria, Black gram, Jute & | Lack of suitable moisture | Moisture Conservation Tillage |
| | | | | Winter vegetables | conservation practices in toria | |
| | | | | | | |

| 17 | Chapar | Chapar- salkocha | Rangamati | Major crops are rice, blackgram, rapeseed & mustard, areca nut, coconut, banana, vegetables, bamboo etc. Major enterprises are cropping, piggery, dairy, duckery, goatery, backyard poultry etc. | -Soil acidity -Yield gap in paddy, pulses, oilseeds, fruits and vegetables -Low rate of seed replacement and poor adoption of HYVs -Poor fertility management -Rainfed farming -Un-organized marketing system -Low productivity in livestock | -Crop planning for rainfed area. -Increasing productivity of major field crops through improved crop management practices -Productivity improvement in fruits and vegetables -Popularization of HYVs -Adoption of INM and IPM technologies. -Formation of SHGs and farmer's club |
|----|------------|---------------------|------------------------|--|--|---|
| 18 | Bilasipara | Raniganj | Futkibari Medhipara | Major crops are rice, blackgram, sesamum, rapeseed & mustard, areca nut, coconut, banana, vegetables, bamboo etc. Major enterprises are cropping, dairy, duckery, goatery, backyard poultry etc. | -Low rate of seed replacement -Yield gap in paddy, pulses, oilseeds, vegetables etc. -Imbalance use of chemical fertilizer -Low productivity in animals | -Production of quality seed of rice, oilseed and pulses -Productivity enhancement in major field crops. - Popularization of HYVs -Scientific live-stock management -Scientific fish farming -Mushroom production for income generation -Formation of SHGs and farmer's club |
| 19 | Golakganj | Agomoni | Kachakhana | Rice, rapeseed & mustard, sesame, black gram, banana,kharif & rabi vegetables, etc. are important crops. Major enterprises included cropping, dairy, backyard poultry, goatery, fishery etc. | -Low rate of seed replacement -Yield gap in paddy, pulses, oilseeds, vegetables etc. -Imbalance use of chemical fertilizer -Low productivity in animals -Low production of fish per unit of water body. | Popularization of HYVs Commercial production of banana. Scientific live-stock management Scientific fish farming. |
| 20 | Bilasipara | Raniganj | Hakama Satber | Rice, rapeseed & mustard, Kharif and Rabi Vegetables, coconut, arecanut, banana etc. Major enterprises included cropping, dairy, backyard poultry, goatery etc. | Yield gap in major field crops and vegetables -Low rate of seed replacement. -Poor adoption of HYVs in field crops. -Inadequate nutrient management. -Low productivity in animals | -Productivity enhancement in major field crops - Popularization of HYVs -Seed and planting material production - Scientific live-stock management - Apiculture -Formation of SHGs and farmer's club |

| 21 | Bilasipara | Raniganj | Udmari Part iii, iv & v, | Rice, wheat, rapeseed& mustard, jute, kharif & rabi vegetables, Chilli, etc. Major enterprises included cropping, dairy, backyard poultry, goatery, fishery etc. | -Flood -Low rate of seed replacement and poor adoption of situation specific HYVs. -Yield gap in paddy, pulses, oilseeds, vegetables etc. -Imbalance use of chemical fertilizer -Low productivity in animals -Low production of fish per unit of | -Productivity enhancement in major field crops. - Popularization of HYVs -Seed and planting material production Commercial production of vegetables. -Adoption of INM and IPM technologies. -Scientific live-stock management -Scientific fish farming. |
|----|------------|------------|---------------------------------------|--|--|--|
| 22 | Bilasipara | Nayer Alga | Nayer Alga, Sagunmari, Gutipara | Rice, Jute, Blackgram, green gram, rapeseed & mustard, chilli, vegetables (kharif & rabi) Major enterprises included cropping, dairy, backyard poultry, goatery, fishery etc. | water body. Soil acidity Flood Low rate of seed replacement Poor adoption of situation specific HYVs in rice & jute Yield gap in paddy, pulses, oilseeds, vegetables etc. Imbalance use of chemical fertilizer Low productivity in animals Low production of fish per unit of water body. | -Increasing productivity of major field crops through improved crop management practices -Popularization of HYVs of rice, oilseed and pulse -Seed and planting material production -Adoption of INM and IPM technologies. -Scientific livestock rearing. -Adoption of improved fish production technology. - Formation of SHGs and farmer's club |
| 23 | Bilasipara | Raniganj | Charuabakra Sonamukhi Tilapara | Rice, Jute, rapeseed, Major enterprises included cropping, backyard poultry, fishery etc | -Flood -Poor adoption of situation specific HYVs in rice & jute -Yield gap in paddy, pulses, oilseeds, vegetables etc. -Imbalance use of chemical fertilizer -Low production of fish per unit of water body. | -Introduction of fish seed rearing technology in flood affected areas -Pen culture technology in fishery sector - Integrated system of farming - Scientific fish farming - Introduction of HYV |

<u>3. TECHNICAL ACHIEVEMENTS</u>

| | (| OFT (Technology Asses | ssment and Ref | ïnement) | FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises) | | | |
|------------------|----------------|-----------------------|-------------------|-------------|--|-------------|-------------------|-------------|
| Discipline | Number of OFTs | | Number of Farmers | | Number of FLDs | | Number of Farmers | |
| | Targets | Achievement | Targets | Achievement | Targets | Achievement | Targets | Achievement |
| Soil Sc. | 3 | 4 | 9 | 10 | 3 | 3 | 18 | 17 |
| Agronomy | 4 | - | 6 | - | - | - | - | - |
| Plant Protection | 2 | 3 | 5 | 13 | 4 | 3 | 16 | 13 |
| Animal Science | 3 | 0 | 50 | 0 | 5 | 2 | 53 | 20 |
| Agril Econ | 0 | 2 | 0 | 85 | 0 | 2 | 0 | 100 |
| Fishery Science | 3 | 3 | 7 | 5 | 3 | 3 | 6 | 6 |
| Total | 15 | 12 | 77 | 113 | 15 | 13 | 93 | 156 |

3. A. Details of target and achievements of mandatory activities by KVK during 2019-20

Note: Target set during last Annual Zonal Workshop

| Training (includ | Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit) | | | | | | Extension A | ctivities | |
|-----------------------------|---|---------------------|----------------------|-------------------|----|--|------------------|-----------|--------------------|
| | | 3 | | | | 4 | | | |
| | Number of Co | urses | Numb | er of Participant | ts | Number of activities Number of participant | | | er of participants |
| Clientele | Targets | Achievement | Targets | Achievement | ; | Targets | Achievement | Targets | Achievement |
| Farmers | 38 | 36 | 950 | 932 | | Field day =7 | 20 | 340 | 697 |
| Rural youth | 33 | 19 | 825 | 519 | | Diagnostic visit=50 | 47 | 200 | 47 |
| Extn. Functionaries | 13 | 9 | 325 | 231 | | F. S. Interaction = 2 | 1 | 300 | 241 |
| Total | 84 | 64 | 2100 | 1682 | | PRA exercise =2 | 2 | 150 | 50 |
| | | | | | | Exhibition = 4 | 3 | 800 | 581 |
| | | | | | | Exposure visit =2 | 2 | 80 | 65 |
| | | | | | | Celebration of important days=10 | 14 | 400 | 2494 |
| | | | | | | Animal health camp=2 | 1 | 80 | 7 |
| | See | d Production (ton.) | | | | Plantin | g material (Nos. | in lakh) | · |
| | | 5 | | | | | 6 | | |
| | Target | Achieven | nent | | | Target | Achie | vement | |
| Toria (Seeds): Cereals : | | | 1146.9 q 236.66 q | | | - | | | - |
| Black gram: | | | 50.0 q | | | - | | | - |
| Lentil | | | 54.45 q | | | | | | - |

Note: Target set during last Annual Zonal Workshop

3. B. Abstract of interventions undertaken during 2019-20

| SI. | Thrust area | Crop/ | Identified problems | | | In | terventions | | |
|-----|---------------------------------|------------------|---|--|---|--------------------------------|---|---|--|
| No | | Enterprise | | Title of OFT if any | Title of FLD if any | Title of Training if any | Title of training for extension personnel if any | Extension activities | Supply of seeds, planting materials etc. |
| 1 | Organic production | Winter rice | Injudicious use of chemical fertilizers | Organic nutrition for rice | - | - | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Seed, Biofertilizer consortia, Rock phosphate, Nemazole |
| 2 | Biofertilizer | Winter Rice | Higher doses of chemical fertilizers in rice | Exploitation of Potash Solubilising Bacteria in reduction of potassic fertilizers on sali paddy | - | - | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Seed, Urea, SSP,MOP, PSB, PP Chem. |
| 3 | Micronutrient Management | Rapeseed | Less use of SSP and Boron in oilseed crop rapeseed | Effect of sulphur and boron on rapeseed | - | - | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Seed, Urea, SSP, DAP, MOP, Borax& PP chem |
| 4 | Micro nutrient Management | Winter rice | Lack of suitable micronutrient management practices in rice | - | Use of Zn solubilising bacteria for supplementing Zn in paddy | - | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Seed, Urea, SSP,MOP, Zinc solubilising bacteria, Zinc sulphate & PP chem. |
| 5 | Soil health Management | Vermicom post | Dependency on chemical fertilizer and misuse of organic residues | - | Low cost Vermicompost production | - | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Polythene Plastic, Earthworm |

| 6 | Biofertilizer | Wheat | Lack of suitable INM practices in wheat | - | Use of biofertilizer on the productivity of wheat | - | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Seed, Urea, SSP,MOP, Borax, Azotobacter, PSB& PP chem. |
|----|------------------------|------------------------------|--|--|---|--|---|--|--|
| 7 | Pest management | Pumpkin | Yield reduction due to Fruit fly infestation in pumpkin | Management of fruit fly in pumkin (var. Arjuna) by using pheromone traps | - | - | - | Scientist Visit to farmer's field & diagnostic field visit | Seeds, Urea, SSP,MOP, Pheromone traps &PP chemicals |
| 8 | Beneficial organism | Mushroom | Dry spell or low production of mushroom during summer season | Year round production of mushroom through Oyster & Milky mushroom cultivation | - | Cultivation technology of milky mushroom | - | Scientist Visit to farmer's field, diagnostic field visit &technical support | Spawn, polythene bag, thread etc. |
| 9 | Beneficial organism | Mushroom | Less income generation through conventional mushroom cultivation | Feasibility in production of Button Mushroom (Agaricus spp.) in Dhubri | - | Cultivation technology of button mushroom | - | Scientist Visit to farmer's field, diagnostic field visit &technical support | Spawn, Substrate materials, polythene bag, thread etc. |
| 10 | Seed storage | Potato | Reduction of marketability due to cut worm | - | On- farm storage of seed Potatoes | - | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Storage structure, Nylon net, PP chemicals. |
| 11 | Apiculture | Honey bee (Indian Bee) | Inefficient utilization of resources | - | Performance of Apis cerana in ISI-A type bee hives in Dhubri district of Assam | - | - | Scientist Visit to Farmer's Field, diagnostic Field visit &technical support | ISI A type Bee box, Bee colony & other accessories |
| 12 | IPDM | Jute | Yield loss due pest & diseases | - | Integrated pest and disease management module for <i>Olitorius</i> Inte | Major insect pest & diseases of Jute | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Seeds, Urea, SSP,MOP, Bioagent &PP chemicals |

| 13 | Integrated Farming System | Fish and Duck | Sudden occurrence of flood | "Floating Duck House used in Integrated duck cum fish farming in Flood affected Areas" | - | Integrated Duck cum Fish Farming | - | Visit to Farmer's Field & diagnostic Field visit and Exposure Visit | Floating Duck House,Fish seed, Duckling, Duck Feed, lime & medicine etc. |
|----|--|--|---|---|---|---|---|---|---|
| 14 | Culture of High Stocking Density fish | Fish <u>(</u> <u>Pungacius</u> <u>pungacius)</u> | Non availability Quality fish Seed | Monoculture of Pungus Fish (<i>Pungacius</i> <i>pungacius</i>) | - | " Cultivation of Air Breathing Fishes" | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Fish seed, Fish Feed, lime & medicine etc. |
| 15 | Culture of high value fish | Fish <u>(</u> Ompok pabo) | Low income in composite fish farming | Polyculture of <i>Ompok</i> pabo | - | " Cultivation of Air Breathing Fishes | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Fish seed, Fish Feed, lime & medicine etc. |
| 16 | Integrated Fish Farming | Duck and Fish | Commercialization | - | " Integrated Duck cum Fish Farming " | Integrated Fish Farming | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Ducklings, Fish seed, lime, feed & medicine etc |
| 17 | Integrated Fish Faring | Fish and Paddy | Commercialization | - | "Rotational Culture of Rice and Fish in Integrated Paddy cum Fish Farming" | Integrated Fish Farming | - | Scientist Visit to Farmer's Field & diagnostic Field visit | Fish seed , Paddy seed lime, Ferromon Trap & medicine etc |
| 18 | Integrated Farming System | Fish and Pig | Commercialization | - | " Integrated Pig cum Fish Farming" | Integrated Fish Farming | - | Visit to Farmer's Field & diagnostic Field visit and Exposure Visit | Fish seed, Piglets, Pig House, Pig feed, lime, & medicine etc. |
| 19 | Breed evaluation | Poultry | Inferior productivity of local chicken | - | FLD on improved dual type backyard chicken var. <i>Kamrupa</i> | Training on improved management practices o improved backyard chicken | - | Visit to Farmer's Field & vaccination for Ranikhet disease | Chicks, medicine, feed, vaccines etc. |

| 20 | Introduction of improved variety of duck | Duckery | Inferior productivity of local duck | - | FLD on improved duck var- White Pekin | - | - | Visit to Farmer's Field & vaccination for Duck plaque disease | Ducklings, medicine, feed, vaccines etc. |
|----|---|--|-------------------------------------|---|---|---|---|---|---|
| 21 | Cropping pattern | Farmers existing crop practices | Flood affected area | A Study on the Farming Practices of Major Crops (Jute, Chilli, Summer rice, Black gram, Sugarcane) adopted by the Farmers in Char areas of Dhubri district | - | - | - | Group discussion | - |
| 22 | Efficient market channel | - | Low price of jute fiber | Efficiency of different marketing channels of Jute used by farmers in Dhubri district of Assam | - | - | - | Group discussion with farmers & JCI officials | - |
| 23 | Fertilization improvement in Toria | Toria | Low production of Toria | - | A Study on Mobile Honey bee keeping in Dhubri district of Assam | - | - | Group discussion | - |
| 24 | Climate resilient farming | Farmers existing crop practices | Crop damaged by flood | - | A Study in Farmers Copping Mechanism in the context of climate change | - | - | Group discussion | - |

3.1 Achievements on technologies assessed and refined during 2019-20

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|---|---------|----------|--------|---------------------|------------|--------|--------|---------------------|----------------|-------|
| Varietal Evaluation | 2 | - | - | | - | - | - | - | - | 2 |
| Seed / Plant production | - | - | - | - | - | - | - | - | - | - |
| Weed Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop Management | 1 | - | - | - | - | - | - | - | - | 1 |
| Integrated Nutrient Management | | 1 | - | - | - | - | - | - | - | 1 |
| Integrated Farming System | - | - | - | 1 | - | - | - | - | - | 1 |
| Mushroom cultivation | 2 | - | - | - | - | - | - | - | - | 2 |
| Drudgery reduction | - | - | - | - | - | - | - | - | - | - |
| Farm machineries | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | 1 | - | - | - | - | - | 1 |
| Integrated Pest Management | - | - | - | - | 1 | - | - | - | - | 1 |
| Integrated Disease Management | - | - | - | - | - | - | - | - | - | - |
| Resource conservation technology | - | - | - | - | - | - | - | - | - | - |
| Small Scale income generating enterprises | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 3 | 1 | - | 2 | 1 | - | - | - | - | 9 |

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

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

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

| Thematic areas | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL |
|-------------------------|---------|----------|--------|---------------------|------------|--------|--------|---------------------|----------------|-------|
| Varietal Evaluation | - | - | - | - | - | - | - | - | - | - |
| Seed / Plant production | - | - | - | - | - | - | - | - | - | - |
| Weed Management | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop | - | - | - | - | - | - | - | - | - | - |
| Management | | | | | | | | | | |
| Integrated Nutrient | - | - | - | - | - | - | - | - | - | - |
| Management | | | | | | | | | | |
| Integrated Farming | - | - | - | - | - | - | - | - | - | - |
| System | | | | | | | | | | |
| Mushroom cultivation | - | - | - | - | - | - | - | - | - | - |
| Drudgery reduction | - | - | - | - | - | - | - | - | - | - |
| Farm machineries | - | - | - | - | - | - | - | - | - | - |
| Post Harvest | - | - | - | - | - | - | - | - | - | - |
| Technology | | | | | | | | | | |

| Integrated Pest | - | - | - | - | - | - | - | - | - | - |
|------------------------|---|---|---|---|---|---|---|---|---|---|
| Management | | | | | | | | | | |
| Integrated Disease | - | - | - | - | - | - | - | - | - | - |
| Management | | | | | | | | | | |
| Resource | - | - | - | - | - | - | - | - | - | - |
| conservation | | | | | | | | | | |
| technology | | | | | | | | | | |
| Small Scale income | - | - | - | - | - | - | - | - | - | - |
| generating enterprises | | | | | | | | | | |
| TOTAL | - | - | - | - | - | - | - | - | - | - |

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

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

| Thematic areas | Cattle | Poultry | Sheep | Goat | Piggery | Rabbitery | Fisheries | TOTAL |
|-------------------------------|--------|---------|-------|------|---------|-----------|-----------|-------|
| Evaluation of Breeds | - | - | - | - | - | - | 2 | 2 |
| Nutrition Management | - | - | - | - | - | - | - | - |
| Disease of Management | - | - | - | - | - | - | - | - |
| Value Addition | - | - | - | - | - | - | - | - |
| Production and Management | - | - | - | - | - | - | 1 | 1 |
| Feed and Fodder | - | - | - | - | - | - | - | - |
| Small Scale income generating | - | - | - | - | - | - | - | - |
| enterprises | | | | | | | | |
| TOTAL | - | - | - | - | - | - | 3 | 3 |

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

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

A.5. Results of On Farm Testing

| SI. No. | Title of OFT | Problem Diagnosed | Name of Technology Assessed | Crop/Cro pping system/ Enterpris e | No. of Trial s | Results of Assessment/ Refined (Data on the parameter should be provided) | Feedbac k from the farmer | Feedback to the Researcher | B.C . Ratio (if applicable) |
|------------|--|---|--|--|-------------------------|--|--|----------------------------------|--|
| 1 | Organic nutrition for rice | Injudicious use of chemical fertilizers | Treatment: Enriched composed @ 5 ton /ha + Bio fertilizers consortia (<i>Azospirillum</i> + PSB) as seedling root dip treatment Control : Farmer's practice | Rice | 3 | Yield (Demo): 57q/ha Yield (Check): 54q/ha | Farmers willing to adopt the technolog y | - | B:C (Demo) : 1.89 B:C (Check): 1.71 |
| 2 | Exploitation of Potash Solubilising Bacteria in reduction of potassic fertilizers on sali paddy | Higher doses of chemical fertilizers in rice | Treatment: NPK @ 40:20:10 kg/ha + Consortia of KSB @3.5 kg/ha. Control = Application of N: P_2O_5 : K_2O @ 40:20:20 kg/ha | Rice | 3 | Yield (Demo): 48q/ha Yield (Check): 45q/ha | Farmers willing to adopt the technolog y | - | B:C (Demo) : 1.74 B:C (Check): 1.65 |
| 3 | Effect of sulphur and boron on rapeseed | Less use of SSP and Boron in oilseed crop rapeseed | T1: 11 kg SSP as S source + 950 g Borax as Boron Source + R.D. NPK (5 kg urea, 3 kg DAP, 1.5 kg MOP per half bigha plot) T2: RDF | Toria | 3 | Yield (Demo): 10.7q/ha Yield (Check): 9.5q/ha | Farmers willing to adopt the technolog y | - | B:C (Demo) : 2.28 B:C (Check): 1.96 |
| 4 | Promising sali rice line, CN1758-2- TTB7 | - | T1: CN1758-2-TTB7 T2: Ranjit | Rice | 1 | Yield (Demo): 54.0q/ha Yield (Check): 51.0q/ha | - | - | B:C (Demo) : 1.54 B:C (Check): 1.40 |

| 5 | Integrated management of Yellow mosaic virus of Black gram (Summer) (started in 2018-19) | Severe infestation of YMV | T1: IDM module (Resistant variety + Optimum seed rate @ 30 kg/acre + Seed treatment with Thiomethoxam 70 WS @ 3 g/ kg seed + Removal of infected plant at initial stage + One spray of Thiomethoxam 25 WG @ 100 g/ ha T2: Farmer's practice (No treatment) | Black gram | 3 | Date of Sowing: 23/03/2019 Disease intensity : Demo : 5% Check : 25% Yield Demo : 8.6 q/ha Check : 7.4 q/ha | Farmer prefer to grow the crop in kharif season due to indiscrim inate bearing during summer season | Purity of the variety to be maintained properly. | B: C Ratio Demo= 2.12 Check= 1.91 |
|---|--|--|---|---------------|---|--|--|--|---|
| 6 | Management of fruit fly in pumpkin (var. Arjuna) by using pheromone traps | Yield reduction due to Fruit fly infestation in pumpkin | Technology: Application of Pheromone traps @ 35 nos/ha Farmer's practice: Poison baiting with Malathion | Pumpkin | 3 | Observation:Date of sowing:15.11.19Per cent seedgermination: 93%Date of pheromone trapinstallation: 29.01.20Results:First infestation offruit borer observed:Technology:07.02.2020FP:02.02.2020Fruit flies /trap/ week:Technology: 23.41Per cent Infested fruit:Technology: 9.36FP:16.41Production (q/ ha):Technology: 196.00FP:167.00 | Farmers prefer the technolog y, but they can't effort the same, because pheromo ne trap is not easily assessabl e to them. | Integrated managemen t approach to be tried for effective control of fruit fly | Technology: 2.46 FP : 2.25 |

| 1 | Q |
|---|---|
| - | |

| 7 | Year round production of mushroom through Oyster & Milky mushroom cultivation | Dry spell or low production of mushroom during summer season | Technology: Year round mushroom cultivation through Oyster & Milky mushroom production Farmers' Practice: Only winter mushroom cultivation | Mushroo m | 8 | Observations on Oyster Mushroom (during winter season)Date of bed preparation: 06.11.19Days required for shifting of beds to cropping room: 17 daysDays for pin head initiation: 27 daysResults: Yield (Kg per bed): Technology: First harvest : 0.78 Second harvest: 0.32 Third harvest : 0.72 Second harvest : 0.72 Second harvest : 0.35 Third harvest : 0.18 Total : 1.25 | Farmers are able to get additional income by incorpora ting mushroo m as a compone nt in their farming situation. | More study on Cultivation of summer mushroom is required for stabilize its production. | Technology: 3.32 FP : 3.15 |
|---|--|---|---|--------------|---------------------------|--|--|--|-------------------------------------|
| 8 | Feasibility in production of Button Mushroom (<i>Agaricus</i> spp.) in Dhubri | Less income generation through conventional mushroom cultivation | Technology: Button mushroom cultivation Farmers' Practice: Oyster mushroom cultivation | Mushroo m | 2 | Observation Recorded Volume of compost:200 Kg (Button mushroom) No. of beds: 200 nos. (Winter Oyster mushroom) Starting of compost preparation: 15.11.19 Date of spawning: 16.12.19 Date of casing: 28.12.19 | - | - | The experiment was failed |
| 9 | A Study on the Farming Practices of Major Crops (Jute, Chilli, Summer rice, | Flood affected area | - | - | 80 respo ndent s | 20.12.17 | _ | The farmers generally practice traditional method of cultivation. | * |

| | Black gram, | | | | | | | They grow | |
|----|---------------|-------------------|--------------------------|----------|--------|-------------------------|------------|--------------|------|
| | Sugarcane) | | | | | | | crops based | |
| | adopted by | | | | | | | on the time | |
| | the Farmers | | | | | | | of | |
| | in Char areas | | | | | | | occurrence | |
| | of Dhubri | | | | | | | of flood | |
| | district | | | | | | | | |
| 10 | Efficiency of | Low price of jute | - | Jute | 5 jute | - | - | Jute is a | ** |
| | different | fiber | | | mark | | | verv | |
| | marketing | | | | ets | | | important | |
| | channels of | | | | | | | cash crop in | |
| | Jute used by | | | | | | | the district | |
| | farmers in | | | | | | | It has a | |
| | Dhuhri | | | | | | | direct link | |
| | | | | | | | | | |
| | | | | | | | | with the | |
| | Assam | | | | | | | terminal | |
| | | | | | | | | market of | |
| | | | | | | | | jute | |
| 11 | Evaluation of | Non availability | Area: 40 Sq. meter | M kuchia | 1 (@ | Fish Seed Stocked: | Farmers | Breeding | 3.67 |
| | Kuchia (M | of seeds, culture | Number of trials: 02 | | Cha | | are quite | and seed | |
| | kuchia) | technology | Size /Unit: : 4m x 2m | | mber | Chamber 01: 200nos | satisfied | production | |
| | culture | | x 2m | |) | C1 1 02 200 | with the | technology | |
| | technology | | . type of culture unit : | | | Chamber 02 : 200nos | technolog | should be | |
| | (started in | | Cement tanks with clay | | | | y, but the | immediatel | |
| | 2010-19) | | organic matter from wet | | | | nrohlem | y be taken | |
| | | | land i e beel at the | | | Fish Recovered: | is the | popularize | |
| | | | bottom of the tank | | | | seed. The | the | |
| | | | about 0.5m layer | | | Chamber 01: 115 nos | technolog | technology. | |
| | | | Stocking Density : 10 | | | | y mainly | The fish | |
| | | | seeds/Sq.met | | | Chamber 02: 128 nos | depends | shows | |
| | | | Culture period : 10 | | | T (1 (1 | on the | canabolism, | |
| | | | months | | | Total fish recovered in | wild | the affect | |
| | | | Feeding of the fish: | | | Chamber $01 = 45.00$ kg | collection | the overall | |
| | | | Fish Meal/ Dry Fish/ | | | T-4-1 C-1 1 | of seed. | tish | |
| | 1 | 1 | Preparation of boil rice | 1 | 1 | LOTAL TISN recovered in | 1 | production | 1 |
| | | | | | | | | production. | |
| | | | i.e. bhat Viscera, Trace | | | Chamber $01 = 60.00$ kg | | production. | |

| | | | Snails etc. Liming : 2.5 kg//unit depending on the soil and water pH size of the fish seed at the time of stocking : 7gm to 10gm Stocking Time : February-march | | | | | | |
|----|---|--|---|-------------------------|---|--|---|--|-----------------------------|
| 12 | Incorporation of N chitala in poly culture of carps (started in 2018-19) | Culture of High value Fish | ** | Fish | 2 | Fish Stocked : Pond 1 : 80 Pond 2 : 80 Fish Recovered : Pond 1 : 68 Pond 2 : 60 Wt of Fish From Pond 1 : 76 kg Wt. of Fish from Pond 2 : 70 kg | Non availabilit y of Quality fish Seed at right time | | 3.5 |
| 13 | Cultivation of Vietnam Kaoi (started in 2018-19) | Culture of High value Fish | *** | Fish | 2 | Fish Stocked per unit :2000Avg. Fish recovered per unit : 1300 nos.Total wt of Fish Recover per unit : 156 kgGross Return from Fish : Rs.31200.00Total Cost per unit :Rs.8000.00 | Non availabilit y of Quality fish Seed at right time. | - | 3.9 |
| 14 | Duck cum fish farming in flood affected area by using floating duck | Poor survival rate of improved variety of Duck and sudden occurrence of flood | a. Fish species stocked :IMC b. Species ratio: Catla: ahu:Mrigal :: 4:4:2 c. Stocking size of fishes: 10-15cm sized | Fish (IMC) & Duck | 1 | Demo : Total Fish Production: 600kg/bigha Return from fish : 90,000.00 Return from Duck | - | Plz find out the lime doses in ppm basis rather than kg/ha. | Demo : 4.15 Check : 2.91 |

| | | 1 | | 1 | 1 | | | | |
|----|-------------|----------------|----------------------------|-----------|---|-------------------------|-------------------------|---|-----------------|
| | house | | seeds | | | (Duck+egg): 13, | | | |
| | | | d. Stocking Density of | | | 750.00 | | | |
| | | | fishes :8000nos./ha | | | Gross Return : | | | |
| | | | e. Culture period of fish | | | 1,03,750.00 | | | |
| | | | :11 months | | | Gross Cost : 25,000.00 | | | |
| | | | f. Feeding of the fish | | | Net Return : 78,750.00 | | | |
| | | | :Balanced feed @2% of | | | | | | |
| | | | the body weight of | | | | | | |
| | | | fishes | | | Check: | | | |
| | | | if sufficient natural fish | | | Total Fish Production : | | | |
| | | | food organisms are not | | | 350 kg | | | |
| | | | present. | | | Return from Fish : | | | |
| | | | g. Stocking density of | | | 52,500.00 | | | |
| | | | Poultry Bird :300 | | | Gross cost : 18,000.00 | | | |
| | | | birds/ha | | | Net Return : 34,500.00 | | | |
| | | | h. Duck breed :Khaki | | | | | | |
| | | | Campbell/Chara | | | | | | |
| | | | Chembelli | | | | | | |
| | | | i. integration type | | | | | | |
| | | | :Direct | | | | | | |
| | | | j. Liming : 500- | | | | | | |
| | | | 600kg/ha depending on | | | | | | |
| | | | the pH of water. | | | | | | |
| | | | k. Stocking Time | | | | | | |
| | | | :June-July | | | | | | |
| | | | l. Duck House material: | | | | | | |
| | | | Wood and tin Float- | | | | | | |
| | | | Plastic Drum float | | | | | | |
| 15 | OFT on | Low income per | Area: 40 Sq. meter | Pungus | 2 | Demo: | Fish | - | Demo B:C Ratio |
| | Monoculture | unit pond area | 1. Total Area: 2600 Sq. | Fish | | Total fish Production : | Grows | | 3.33 |
| | of Pungus | 1 | m | (Pungaciu | | 1000kg/bigha | best at 2 nd | | |
| | Fish | | 2. Number of trials : 02 | spungaciu | | Return from Fish : | Year | | Check B:C Ratio |
| | (Pungacius | | (0.13ha each) | s) | | Rs.1,00,000.00 | | | 2.91 |
| | pungacius) | | | | | Total Cost : | | | |
| | | | 3. Type of culture : | | | Rs.30,000.00 | | | |
| | | | Mono Culture of Fish | | | Net Return : 70,000.00 | | | |
| | | | 4. Stocking Density : | | | | | | |
| | | | 3000 seeds/0.13ha | | | | | | |
| | | | 5. Depth of the culture | | | Check (Composite | | | |
| | | | $tank \cdot 1.5 m$ | | | culture with IMC): | | | |
| | | | | | | Total Fish Production : | | | |

| | | | 6. Culture period : 11 months 7. Feeding of the fish : Fish Meal/ Dry Fish/ Chopped Viscera, Trace Fish, Earth worm , Snails etc 8. Liming : depending on the soil and water pH | | | 350 kg Return from Fish : 52,500.00 Gross cost : 18,000.00 Net Return : 34,500.00 | | |
|----|--|-------------------------------|--|--------------------|---|--|--|---------|
| | | | 9. Stocking Time : July- | | | | | |
| 16 | OFT on Poly culture of <i>Ompok pobo</i> with carps | Culture of High value Fish | Augusta. Total Area: 2600 Sq.mb. Number of trials: 02(0.13ha each)c. Type of culture unit:Earthen pond preferablywith compact bottomd. Stocking Density: 6-8 seeds/Sq.mete. Depth of the culturetank: 1.5 mf. Culture period: 6-8monthsg. Feeding of the fish:Fish Meal/ Dry Fish/Chopped Viscera, TraceFish, Earth worm ,Snails etch. Liming: dependingon the soil and waterpHij. Size of the fish seedat the time of stocking:Av. Wt. 5 cm to 7 cm | Ompok pobo Fish | 2 | Ongoing Initial data Initial Avg. Length of Fish = 15 cm Avg. Wt of Fish ==18gm | | Ongoing |

| | | | j. Stocking Time: July- August k. Critical inputs: Fish seed, feed. lime | | | | | | |
|----|--|---|---|------|----------------------|--|--|---|------|
| 17 | Mechang type goat house in flood affected areas (Started in 2018-19) | Inferior productivity of goat in traditional house | Mechang (platform) type goat house Parameters to be studied: a) Growth performances b) Disease incidence etc. c) Economics | Goat | 3 | DEMO: Av. Body weight of local goat at 1 year of age: 14 kg Disease incidence: None CHECK: Av. Body weight of local goat at 1 year of age: 11 kg Disease incidence: Pneumonia, cold etc. | The farmers expressed their satisfacti on over the technolog y particular ly in flood effected area | This type of housing creates a favourable housing environmen t for the animal as kids are highly vulnerable to cold and water during flood. | 1.95 |
| 18 | Evaluation of cross bred pig var. Rani (Started in 2018-19) | Inferior productivity of local pig | Rani (50% Hampshire X 50% Ghungroo) pig Parameters to be studied: a) Growth performances b) Disease incidence etc. c) Economics | Pig | 3 (9 anim als) | DEMO: Av. Adult Body weight: Male : 88 Kg Female: 74 Kg Age at sexual maturity: 192 days Age at first Farrowing: 310 days Litter Size: 7 Av. Birth weight of piglet: 2.75 kg Disease incidence: none CHECK: Av. Adult body weight: Male : 63 Kg Female: 58 Kg | This pig grows faster and produces more number of healthy piglets than our local pig | The pig can also be reared under traditional system of managemen t. | 3.15 |

| | | Age at sexual maturity: | |
|--|--|-------------------------|--|
| | | 315 days | |
| | | Age at first Farrowing: | |
| | | 432 days | |
| | | Litter Size: 4 | |
| | | Av. Birth weight of | |
| | | piglet: 2.15 Kg | |
| | | Disease incidence: none | |

* Result of OFT A Study on the Farming Practices of Major Crops (Jute, Chilli, summer rice, Black gram, Sugarcane) adopted by the Farmers in Char areas of Dhubri district

 Table 1 : Technology adopted by farmers

| Parameters | | | Char area | | | Non-char area | | | | | | |
|-------------|--------------|------------|--------------|--------------|-------------|---------------|-------------|-------------|--------------|-----------|--|--|
| | Summer | Jute | Chilli | Black gram | Sugarcane | Summer | Jute | Chilli | Black gram | Sugarcane | | |
| | rice | | | _ | _ | rice | | | | | | |
| Varieties | Pioneer, | JRO 524, | Local | Local | Local: both | China, | Tossa, JRO | Local, | PU 31, | - | | |
| used | PAN 2423, | JRO 632 | | | yellow stem | 29,28, | 524 | Suryamukhi, | Local | | | |
| | Advanta | | | | and brown | Karishma, | | Saraki, | | | | |
| | | | | | stem | Ranjana | | Alipuri | | | | |
| Seed | Not | Not | Not | Not | Not | Not | Not | Not | Not | Not | | |
| treatment | practiced | practiced | practiced | practiced | practiced | practiced | practiced | practiced | practiced | practiced | | |
| Land | Bullock | Bullock | Bullock | Bullock | Human for | Bullock | Bullock | Bullock | Bullock | - | | |
| preparation | plough (20 | plough (20 | plough (20 | plough (20 | making | plough (20 | plough (20 | plough (20 | plough (20 | | | |
| | %) and | %) and | %) and | %) and | tunnels | %) and | %) and | %) and | %) and | | | |
| | tractor | tractor | tractor | tractor | | tractor | tractor | tractor | tractor | | | |
| | (80%) | (80%) | (80%) | (80%) | | (80%) | (80%) | (80%) | (80%) | | | |
| Seed rate | Hybrid: 40 | 7.5 kg/ ha | Local: 7.5 - | 22.5 kg / ha | 75 q/ ha | Hybrid: 40 | 7.5 kg/ ha | Hybrid: 40 | 22.5 kg / ha | - | | |
| (kg/ bigha) | kg/ ha, | _ | 10.0kg / ha | _ | _ | kg/ha, | _ | kg/ ha, | _ | | | |
| | Local: 75 | | | | | Local: 75 | | Local: 75 | | | | |
| | kg/ ha | | | | | kg/ ha | | kg/ ha | | | | |
| Sowing/ | Both Line | Broadcasti | Both Line | Broadcastin | Line | Both Line | Broadcastin | Both Line | Broadcastin | - | | |
| planting | and | ng | plantingand | g | | and | g | plantingand | g | | | |
| method | Broadcastin | _ | Broadcastin | - | | Broadcastin | | Broadcastin | | | | |
| | g | | g | | | g | | g | | | | |
| Time of | Last week of | March/ | August/ | August/ | Last week | Last week of | April/ May | February/ | August/ | - | | |
| sowing | Dec Mid | Mid April | September | September | of Dec | Dec Mid | | March and | September | | | |

| | Jan. | | | | Mid Jan. | Jan. | | August/ September | | |
|--|--|--|--|--|--|--|---|---|---|---|
| Time of trans- planting | End of January to mid February | - | Sept/ Oct | - | - | End of January to mid February | - | March/ April and Sept/ Oct | - | - |
| Fertilizer dos | e (kg/bigha) | | | | | | | | | |
| Urea (kg/ha) | 110 | 112 | 75 | 88 | 350 | 110 | 112 | 120 | 23 | |
| SSP (kg/ ha) | 225 | 150 | 270 | 300 | 500 | 200 | 180 | 300 | 200 | |
| MOP (kg/ | 45 | 30 | 60 | 66 | 100 | 37 | 35 | 70 | 20 | |
| DAP (lrg/ha) | 55 | - | 55 | 40 | - | 35 | - | 34 | - | - |
| Micro nutrients (ZnSQ ₄) | 10 | - | 10 | - | - | 10 | - | 10 | - | - |
| Manure (t/ha) | 5 | - | 6 | - | 8 | 6 | - | 8 | 3 | - |
| Irrigation of | 6 -7 | Not | 2-3 | - | 6-7 | 6 -7 | Not required | 2-3 | - | - |
| Time of | | 1 st . Part of | 1 st · Urea | 1 st · Urea | 1 st · Urea | 1 st · Urea | 1 st · Part of | | 1 st · Urea | |
| application | SSP MOP | Urea SSP | SSP MOP | SSP MOP | SSP MOP | SSP MOP | Urea SSP | SSP MOP | SSP MOP | _ |
| of | and DAP as | MOP as | and DAP as | and DAP | and DAP as | and DAP as | MOP as | and DAP as | and DAP as | |
| fertilizers/ | Basal dose | Basal dose | Basal dose | as Basal | Basal dose | Basal dose | Basal dose | Basal dose | Basal dose | |
| manures | 2 nd : Urea 30 | 2 nd : Urea | 2 nd : Urea 30 | dose 2 nd : | 2 nd : Urea 30 | 2 nd : Urea 30 | 2 nd : Urea 30 | 2 nd : Urea 30 | 2 nd : Urea 20 | |
| | DAP | 30 -35DAP | DAP | Urea 20 DAP | DAP 3 rd : 75 DAP | DAP | -35DAP | DAP | DAP | |
| PP Measures | Cypermethri n, Malathion, Chloropyrip hos @ 2.0 ml/ lit water | Chloropyri phos @ 2.0 ml/ lit water | Cypermethri n, Malathion, Chloropyrip hos @ 2.0 ml/ lit water | Cypermeth rin @ 2.0 ml/ lit water | Cypermethr in, Malathion, Chloropyrip hos @ 2.0 ml/ lit water | Cypermethri n, Malathion, Chloropyrip hos @ 2.0 ml/ lit water | Malathion, Chloropyrip hos @ 2.0 ml/ lit water | Cypermethri n, Malathion, Chloropyrip hos l/ lit water | Chloropyrip hos @ 2.0 ml/ lit water | - |
| Weed managemen t | Two weedings: Hand weeding and | Two hand weedings | Two hand weedings at 25 DAS and 60 DAS | - | Three Hand weeding | Two weedings: Hand weeding and | Two hand weedings | Two hand weedings at 25 DAS and 60 DAS | - | - |

| | chemical | | | | | chemical | | | | |
|--------------|--------------|--------|-------------|-----------|--------|--------------|--------------|-------------|--------------|---|
| | weeding | | | | | weeding | | | | |
| Method of | Using sickle | Using | Plucking of | Uprooting | Using | Using sickle | Using sickle | Plucking of | Uprooting of | - |
| harvesting | | sickle | matured | of plant | sickle | | | matured | plant | |
| | | | green | | | | | green | | |
| | | | chillies | | | | | chillies | | |
| No. of | - | - | 7-10 | - | - | - | - | 7-10 | - | - |
| plucking | | | Plucking | | | | | Plucking | | |
| Retting tank | - | - | - | - | | - | Closed pond | - | - | - |
| Drying | - | Sundry | - | - | | - | Sundry | - | - | - |
| method | | | | | | | _ | | | |

Table 2 : Economics and cost of cultivation of different crops (Rs./ha) according to cost concept

| Cost items (Rs.) | | | Char are | ea | | | | Non-char | area | |
|--|----------------|-------|----------|-----------|-----------|----------------|-------|----------|-----------|-----------|
| | Summer Rice | Jute | Chilli | Blackgram | Sugarcane | Summer Rice | Jute | Chilli | Blackgram | Sugarcane |
| Cost A1 | • | • | | • | | • | • | | • | • |
| Hired human labour | 24300 | 32300 | 18900 | 5400 | 38000 | 23500 | 30600 | 16700 | 7000 | - |
| Land preparation (Tractor/ Power tiller/ manual) | 3375 | 3200 | 3560 | 2300 | 0 | 3200 | 3080 | 3600 | 2300 | - |
| Seeds | 2250 | 900 | 1350 | 1800 | 18750 | 2465 | 900 | 1300 | 1800 | - |
| Fertilizers | 6460 | 3160 | 6530 | 6188 | 10300 | 6230 | 3550 | 6712 | 2590 | - |
| Manures | 1150 | 0 | 1200 | 0 | 0 | 1270 | 0 | 1600 | 0 | - |
| Plant protection chemicals | 1240 | 1300 | 1400 | 1000 | 2600 | 1400 | 1500 | 1280 | 1000 | - |
| Irrigation | 15000 | 0 | 6000 | 0 | 0 | 14700 | 0 | 5600 | 0 | - |
| Nursery preparation | 1490 | 0 | 1500 | 0 | 0.0 | 1500 | 0 | 1000 | 0 | - |
| Repairing | 3000 | 3600 | 2200 | 3175 | 0 | 2350 | 2340 | 2780 | 1300 | - |
| Total working capital | 58265 | 44460 | 42640 | 19863 | 69650 | 56615 | 41970 | 40572 | 15990 | - |

| Interest on working capital @6% | 3496 | 2668 | 2558 | 1192 | 4179 | 3397 | 2518 | 2434 | 959 | - |
|--|---------|---------|---------|----------|-------|-------|-------|-------|-------|---|
| Depreciation | 395 | 450 | 430 | 450 | 450 | 480 | 525 | 600 | 550 | - |
| Land revenue | 670 | 649 | 670 | 680 | 680 | 556 | 580 | 575 | 560 | - |
| Miscellaneous (transportation, baskets, rope etc.) | 1100 | 2300 | 1800 | 1400 | 5450 | 1300 | 3420 | 2200 | 1620 | - |
| Total of Cost A1 | 63926 | 50527 | 48098 | 23585 | 80409 | 62348 | 49013 | 46381 | 19679 | - |
| Cost A2 | | | 1 | | | | | • | | |
| Cost A1 | 63926 | 50527 | 48098 | 23585 | 80409 | 62348 | 49013 | 46381 | 19679 | - |
| Rent paid for leased in land | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | - |
| Total of Cost A2 | 63926 | 50527 | 48098 | 23585 | 80409 | 62348 | 49013 | 46381 | 19679 | - |
| Cost B1 | 1 | • | • | L | 1 | • | • | | L | 1 |
| Cost A1 | 63925.9 | 50526.6 | 48098.4 | 23584.78 | 80409 | 62348 | 49013 | 46381 | 19679 | - |
| Interest on value of owned fixed capital (excluding land) @10% on depreciated value of fixed capital | 1430 | 1540 | 1600 | 1460 | 1540 | 1200 | 1340 | 1500 | 1400 | - |
| Total of Cost B1 | 65356 | 52067 | 49698 | 25045 | 81949 | 63548 | 50353 | 47881 | 21079 | - |
| Cost B2 | | | | | | | | | | |
| Cost B1 | 65356 | 52067 | 49698 | 25045 | 81949 | 63548 | 50353 | 47881 | 21079 | - |
| Rental value of owned land (Actual value to be paid for use of own land) | 3000 | 1500 | 3000 | 3000 | 2800 | 2650 | 2600 | 2800 | 1900 | - |
| Total of Cost B2 | 68356 | 53567 | 52698 | 28045 | 84749 | 66198 | 52953 | 50681 | 22979 | - |
| Cost C1 | | • | • | • | • | | • | | | · |

| Cost B1 | 65356 | 52067 | 49698 | 25045 | 81949 | 63548 | 50353 | 47881 | 21079 | - | | | | |
|--------------------------------|---------|--------|--------|-------|--------|-------|--------|--------|-------|---|--|--|--|--|
| Imputed value of family labour | 15400 | 28500 | 17080 | 6200 | 14500 | 3280 | 26600 | 14750 | 5400 | - | | | | |
| Total of Cost C1 | 80756 | 80567 | 66778 | 31245 | 96449 | 66828 | 76953 | 62631 | 26479 | - | | | | |
| Cost C2 | Cost C2 | | | | | | | | | | | | | |
| Cost B2 | 68356 | 53567 | 52698 | 28045 | 84749 | 66198 | 52953 | 50681 | 22979 | - | | | | |
| Imputed value of family labour | 15400 | 28500 | 17080 | 6200 | 14500 | 3280 | 26600 | 14750 | 5400 | - | | | | |
| Total of Cost C2 | 83756 | 82067 | 69778 | 34245 | 99249 | 69478 | 79553 | 65431 | 28379 | - | | | | |
| Cost C3 | Cost C3 | | | | | | | | | | | | | |
| Cost C2 | 83756 | 82067 | 69778 | 34245 | 99249 | 69478 | 79553 | 65431 | 28379 | - | | | | |
| 10% of Cost C2 | 8376 | 8207 | 6978 | 3424 | 9925 | 6948 | 7955 | 6543 | 2838 | - | | | | |
| Total of Cost C3 | 92131 | 90273 | 76756 | 37669 | 109174 | 76426 | 87509 | 71974 | 31217 | - | | | | |
| Yield (kg/ha) | 8400 | 4000 | 8000 | 785 | 83000 | 5400 | 3920 | 8280 | 610 | - | | | | |
| Price (Rs. /kg) | 14.00 | 37.50 | 22.60 | 80.00 | 2.50 | 13.85 | 35.60 | 23.10 | 80.00 | - | | | | |
| Gross return (Rs.) | 117600 | 150000 | 180800 | 62800 | 207500 | 74790 | 139552 | 191268 | 48800 | - | | | | |
| B:C ratio | 1.40 | 1.83 | 2.59 | 1.83 | 2.09 | 1.08 | 1.75 | 2.92 | 1.72 | - | | | | |

** Result of OFT Efficiency of different marketing channels of Jute used by farmers in Dhubri district of Assam

Salient points are -

- Peak period of marketing of jute fibre : August October
- About 1000 1200 q of jute fibre selling takes place per market day
- Average price of jute (per quintal) : Rs. 4000/- Rs. 5000/-
- No. of intermediaries involved : 3-4

Identified marketing channels

- 1. Producers consumer : (10% sale)
- 2. Producers-local traders (I & II)-Whole sellers : (40% sale)
- 3. Producers local trader I Wholesellers : (30% sale)
- 4. Producers Wholesellers : (20% sale)

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| Price of jute in different marketing channel | els (per quintal): |
|--|---------------------|
| 1. Producers – consumer | : Rs. 4000 |

| oducers – consumer | _ | - | : R | Rs. 4000/ | Rs. 5000/- |
|--------------------|---------------|------|-----|-----------|------------|
| 1 1 1/1 | (1 0 11) 11/1 | 1 11 | D 1 | 20/ | |

2. Producers-local traders (I & II)–Wholesellers: Rs.130/- more 3. Producers – local trader I – Wholesellers – Rs. 60/- mo

| 5. Producers – local trader I – wholesellers | : KS. 60/- more |
|--|------------------------|
| 4. Producers – Wholesellers | : Rs. 4000/ Rs. 5000/- |

Major terminal markets identified for jute:

1. Boxirhat - 34% total produce

(Sales at Rs. 60/- more than purchased price)

2. Tufanganj - 33% total produce

(Sales at Rs. 62/- more than purchased price)

3. Dinhata - 33% total produce (Sales at Rs. 62/- more than purchased price)

• Grading of fibre is done visually based on its silkiness: Grade I and Grade II: Nil, Grade III: 20 %, Grade IV: 65 %, Grade V): 15 %

OFT ** Technology of N chitala

| a. Total Area | 0.26 ha / 2600 sq m |
|----------------------------------|---|
| b. Unit | 02 |
| c. species to be stocked | Fingerling of N chitala and IMC /Exotic Carps |
| d. Species ratio for IMC | Catla:Rahu:Mrigal :: 3:2:1 |
| e. Stocking size | Fingerling of N chitala when the other IMC attains about 150-200gm |
| f. Stocking Density of N chitala | 800 nos/ 0.13 ha |
| g. Stocking Density of IMC | 1000nos/ 0.13 ha |
| h. Culture period | 11 months |
| i. Feeding of the fish Fry | Balanced feed @2% of the body weight of fishes |
| j. Liming | 500-600kg/ha depending on the pH of water. |
| k. Stocking Time | Sept - October |
| 1 Critical inputs | Fish Seed, Feed, Lime, |
| m. Observations to be recorded | Water pH, temperature, water depth during stocking and culture period, date of stocking and harvesting, individual length-weight of |
| | fishes during harvesting, number of fish stocked and recovered, B: C Ratio and farmers reaction |

OFT Fishery *** Technology of Vietnam Kaoi

| a. Total Area | 1200 Sq. m |
|---------------------|--------------------|
| b. Number of trials | 03 (400 sq.m each) |

| c. type of culture unit | Earthen pond preferably encircled the dykes with barrier. |
|---|---|
| d. Stocking Density | 7-10 seeds/Sq.met |
| e. Depth of the culture tank | 1.5 m |
| f. Culture period | 6months |
| g. Feeding of the fish | Fish Meal/ Dry Fish/ Viscera, Trace Fish, Earth worm, frog, Snails etc. |
| h. Liming | 10 kg//unit depending on the soil and water pH |
| ij. size of the fish seed at the time of stocking | Av. Wt. 5gm to 7gm |
| j. Stocking Time | July-August |
| k . Critical inputs | Fish seed, feed. lime |
| 1. Observations to be recorded | Water and soil pH, temperature, water depth during stocking and culture period, date of stocking and harvesting, depth of bottom soil, individual length-weight of fishes during time of stocking and harvesting, number of fish stocked and recovered and farmers reaction |

*Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermicompost

*Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermicompost kg/unit area.

** Give details of the technology assessed or refined and farmer's practice

3.2 Achievements of Frontline Demonstrations during 2019-20

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

List of technologies demonstrated during previous year and popularized during 2018-19 and recommended for large scale adoption in the district

| C1 | | | Horizontal spread of technology | | | | | |
|-----|---------------------|--|---------------------------------|---------|-------------------|--|--|--|
| SI. | Crop/ Enterprise | Technology demonstrated | No. of | No. of | Area in ha | | | |
| INU | Enterprise | | villages | farmers | | | | |
| 1 | Rice | Use of Zn solubilising bacteria for supplementing Zn in paddy | 2 | 6 | 2.0 | | | |
| | No | I any and Vampia and ast machatica | 2 | E | Size: 7 ft x 3 | | | |
| 2 | vermicomposi | Low cost vermicompost production | 3 | 5 | $\pi x 3 \pi (5)$ | | | |
| | | | | | | | | |
| 3 | Wheat | Use of biofertilizer on the productivity of wheat | 2 | 6 | 1.0 | | | |
| | | | | | 20 kg unit | | | |
| 4 | Potato | On- farm storage of seed Potatoes | 3 | 3 | in 9 | | | |
| | | | | | replications | | | |
| 5 | Jute | Integrated pest and disease management module for Olitorius Jute | 4 | 4 | 2.0 | | | |
| 7 | Honeybee | Performance of Apis cerana in ISI-B type bee hives with super chamber in | 5 | 6 | 6 units | | | |
| | | Dhubri district of Assam | | | | | | |

| 8 | Poultry | FLD on Improved backyard dual type Chicken var. Kamrupa | 1 | 10 | 200 nos |
|----|---------|---|---|----|---------|
| 9 | Duck | FLD on improved Duck var. White Pekin | 1 | 10 | 200 nos |
| 10 | Fish | Integrated Duck cum fish Farming | 3 | 3 | 0.39 |
| 11 | Fish | Integrated Paddy cum Fish Farming (Rotational type) | 2 | 2 | 1.0 ha |
| 12 | Fish | Integrated Pig cum Fish Farming | 1 | 1 | 0.20 ha |

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

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

| Sl. No | Сгор | Thematic area | Technology Demonstrated | Season and year | Area | (ha) | No. den | No. of farmers/ demonstration | | | Farming situation (Rainfed/ | Status of soil (Kg/ha) | | | |
|-----------|------------------|-------------------------------------|--|-------------------------------------|--|--|------------|----------------------------------|-----|--------------------------|---|------------------------|---|---|--|
| | | | | | | | | | | ll in achieve ment | Irrigated, Soil type, altitude, etc) | N | P | K | |
| | | | | | Propos | Actu | SC/S | Othe | Tot | | | | | | |
| 1 | D' | | | 1/1 :0 | ed | al | T | rs | al | A 1 ' | D: C 1 | | | | |
| 1. | Rice | Micro nutrient Managem ent | Use of Zn solubilising bacteria for supplementing Zn in paddy | Kharif, 2019 | 2.0 | 2.0 | - | 6 | 6 | Achi eved | Rainfed | - | - | - | |
| 2. | Vermico mpost | Soil health Managem ent | Low cost Vermicompost production | April, 2019 to March, 2020 | Size: 7 ft x 3 ft x 3 ft (5 nos.) | Size: 7 ft x 3 ft x 3 ft (5 nos.) | - | 5 | 5 | Achiev ed | Rainfed | - | - | - | |
| 3 | Wheat | Biofertiliz er | Use of bio fertilizer on the productivity of wheat | Rabi, 2019 | 1 | 1 | - | 6 | 6 | Achiev ed | Rainfed | - | - | - | |
| 4 | Potato | Seed storage | On- farm storage of seed Potatoes | Summer, 2019 | 20 kg unit in 9 replicati ons | 20 kg unit in 9 repli catio ns | - | 3 | 3 | - | Rainfed, sandy loam | - | - | - | |

| 5 | Jute | IPDM | Integrated pest and | Summer, | 2.0 | 2.0 | 1 | 3 | 4 | - | Rainfed, | - | - | - |
|---|----------|------------|----------------------|------------|-----|-----|---|---|---|---|------------|---|---|---|
| | | | module for Olitorius | 2020 | | | | | | | | | | |
| | | | Jute | | | | | | | | | | | |
| 6 | Maize (| Crop | High protein | Rabi, 2018 | 2 | 2 | - | 5 | 5 | _ | Irrigated, | - | - | - |
| | started | manageme | containing Maize | | | | | | | | sandy loam | | | |
| | in 2018- | nt | Var. HQPM 1 | | | | | | | | | | | |
| | 19) | | following | | | | | | | | | | | |
| | | | recommended doses | | | | | | | | | | | |
| | | | of fertilizer | | | | | | | | | | | |
| 7 | Sugarcan | Varietal | Improved Sugarcane | Summer, | 1 | 1 | - | 3 | 3 | _ | Rainfed, | - | - | - |
| | e (| evaluation | variety Nambor | 2019 | | | | | | | sandy loam | | | |
| | started | | following | | | | | | | | | | | |
| | in 2018- | | recommended dose | | | | | | | | | | | |
| | 19) | | of fertilizer | | | | | | | | | | | |

c. Performance of FLD on Crops

| Sl. N o. | Сгор | Themati c area | Ar ea (ha .) | Avg. (Q/ | yield ha.) | % incre ase in Avg. yield | Additio nal data on demo. yield (Q/ha.) | | % Add incre nal ase in o Avg. der yield yie (Q/ | | Data on parameters other than yield, e.g., disease incidence, pest incidence etc. | | Eco | n. of de | mo. (Rs. | /ha.) | Econ | . of che | ck (Rs./] | Ha.) |
|----------------|------|-------------------------------------|-----------------------|-------------|---------------|---------------------------------------|--|----------|--|--|--|--------------|--------------|-----------|--------------|--------------|--------------|----------|-----------|------|
| | | | | Dem o. | Che ck | | H* | L* | GC* * | GR* * | | | NR* * | BCR ** | GC | GR | NR | BC R | | |
| | | | | | | | | | Demo | Local | | | | | | | | | | |
| 1 | Rice | Micro nutrient Manage ment | 2.0 | 48 | 42 | 6.67 | 54. 0 | 45. 0 | Stem borer infestation = 8%, Leaf folder infestation = 5% | Stem borer infestati on = 12%, Leaf folder infestati on = 10% | 3500 0.00 | 7200 0.00 | 3700 0.00 | 2.06 | 3200 0.00 | 6750 0.00 | 3750 0.00 | 1.6 | | |

| 2 | Vermico mpost | Soil health Manage ment | Siz e: 7 ft x 3 ft x 3 ft (5 nos .) | 18 q/un it/ye ar | 16 q/un it/ye ar | 11.11 | 21. 0 | 16. 0 | - | | 4000. | 2160 0.00 | 1760 0.00 | 5.40 | 4000. | 1920 0.00 | 1520 0.00 | 4.8 0 |
|---|------------------|----------------------------------|---|---------------------------|---------------------------|-------|-------|----------|--|---|--------------|--------------|--------------|------|--------------|--------------|--------------|----------|
| 3 | Wheat | Biofertili zer | 1 | 32 | 29 | 10.0 | 35 | 22 | Stem borer infestation = 5%, | Stem borer infestati on = 8%, | 1790 0.00 | 3973 4.00 | 2183 4.00 | 2.22 | 1725 0.00 | 3573 4.00 | 1848 4 | 2.0 7 |
| 4 | Potato | Seed storage | 20 kg unit in 9 repl icat ion s | | | | | | Per cent of rotten tubers due to bacterial wilt/ Late blight = 36.2 Per cent of rotten tubers due to infestation by PTM = 10.4 Per cent of total tuber damage = 64.0 Av. No. of sprouts per tuber at planting = 4.47 Av. length | - | 2500 0 | 3150 0 | 6500 | 1.26 | | | | |

| | | | | | | | | | of sprouts per tuber at planting = 8.69 mm | | | | | | | | | |
|---|---|----------------------------|-----|-----------|-----------|-----|-----------|-----------|---|---------------------------------|--------------|---------------|---------------|------|--------------|---------------|---------------------|-------------|
| 5 | Jute | IPDM | 2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | O ng oi ng | |
| 6 | Maize (started in 2018- 19) | Crop managem ent | 2.0 | 42.0 | 35.0 | 20% | 45. 0 | 39. 0 | Less infestation | 5 to 10% | 3500 0.00 | 7560 0.00 | 4060 0.00 | 2.16 | 3400 0.00 | 6300 0.00 | 2900 0.00 | 1 8 4 |
| 7 | Sugarcan e (started in 2018- 19) | Varietal evaluatio n | 1.0 | 720. 0 | 600. 0 | 20% | 74 0.0 | 65 0.0 | - | Red rot infestati on seen | 9270 0.00 | 2160 00.00 | 1233 00.00 | 2.33 | 9200 0.00 | 1800 00.00 | 8800 0.00 | 1 9 6 |

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

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

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

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

d. Extension and Training activities under FLD on Crops

| SI.N | Activity | No. of | Data | Num | ber of par | ticipants | Remarks | | |
|------|---------------------------------|-----------|--------------------------|----------|-------------|-----------|--|--|--|
| 0. | Acuvity | organized | Date | Gen | SC/ST Total | | | | |
| 1 | Field days(KVK) | 2 | 04.02.2020 08.02.2020 | 38 46 | 8 0 | 46 46 | Field day on Bayers hybrid paddy, , paddy cum fish farming | | |
| | Field Days Under CFLD Programme | 1 | 27.01.2020 | 19 | 0 | 19 | Field day on Toria | | |

| 2 | Farmers Training under CFLD | 3 | 18.09.2019 | 25 | 1 | 26 | Training on improved |
|---|--------------------------------------|-----|-----------------------|-----|----|----|------------------------------|
| | | | 25.09.2019 | 25 | 0 | 25 | cultivation of pulses, plant |
| | | | 04.02.2020 | 38 | 8 | 46 | protection measures for |
| | | | | | | | pulse crops and oilseed |
| | | | | | | | crops |
| 3 | Media coverage | - | - | - | - | - | - |
| 4 | Training for extension functionaries | - | - | - | - | - | - |
| 5 | Any other (Pl. specify) | | | | | | |
| | (i)Scientist visit to Farmer's Field | 12 | 24/5/2019 to12/3/2020 | 27 | 13 | 40 | - |
| | (ii)Diagnostic Visit | 10 | 1/6/2019 to8/3/2020 | 32 | 26 | 58 | - |
| | | 250 | 56 | 306 | | | |

Details of FLD on Enterprises (i) Farm Implements: **Nil** e.

| Name of the implement | Сгор | No. of farmers | Area (ha) | Performance parameters / | * Data on paramete technology den | er in relation to nonstrated | % change in the parameter | Remarks |
|-----------------------|------|----------------|-----------|-----------------------------|--------------------------------------|---------------------------------|---------------------------|---------|
| | | | | indicators | Demon. | Local check | | |
| - | - | - | - | - | - | - | - | - |

* Field efficiency, labour saving etc.

(ii) Livestock Enterprises

| SI. No. | Enterpr ise/ Categor y (e.g., Dairy | Thematic area | Name of Tech nolog | No. of farm ers | No. of unit | No. of anim als, poult | Major Performance parameters / indicators | | % chang e in the para | Ot parame an Demo | her eters (if 1y) Check | E G G | con. o (Rs./ G R | f dem 'Ha.) N R | B | E GC | con. of (Rs./H GR | check [a.) N R | B | Remar ks |
|------------|---|--|---|--------------------------|-------------------|------------------------------------|--|--|--|----------------------------|----------------------------------|-------|---------------------------|--------------------------|---------|---------|-------------------------|-------------------------|---|---------------|
| | Poultry etc.) | | y | | | ry birds | Demo | Check | meter | | | ** | ** | ** | R ** | | | Λ | R | |
| | | | | | | etc. | | | | | | | | | | | | | | |
| 1 | Poultry | Improved dual type backyard chicken | Impro ved dual type chick en | 10 | 10 | 200 | Body weigh t Male: 950 gm | Body weight Male: 500 gm Body | Body weight Male : 90 % Body weight | - | - | - | - | - | - | - | - | - | - | (Ongoin g) |
| | | | var. Kamr upa | | | | Body weigh t Femal e: 850 gm | weight Femal e: 450 gm | Femal e: 89 % | | | | | | | | | | | |
|---|---|--|--|----|----|-----|---|---|--|---|---|---|---|---|-------|--|--|---|-------|--|
| 2 | Duckery | Improved type duck | Impro ved duck var. Whit e Pekin | 10 | 10 | 200 | Body weigh t Male: 2800 gm Body weigh t Femal e: 2500 gm | Body weight Male: 800 gm Body weight Femal e: 700 gm | Body weight Male : 250 % Body weight Femal e: 257% | - | - | - | - | - | - | - | - | - | - | (Ongoin g) |
| 3 | Piggery | Improved breed (HDK – 75) | Fld on cross breed pig | 3 | 3 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | Ongoin g |
| 4 | Duckery | Improved dual type duck | Impro ved duck var. Chara chem balli | 10 | 10 | 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | Ongoin g |
| 5 | Poultry (started in 2018- 19) | Improved dual type backyard chicken | Impro ved dual type chick en var. Kamr upa | 10 | 10 | 200 | Av. Body weigh t at 1½ yr. of age: Male: 2135g Femal e: 1885 | Av. Body weight at 1 ¹ / ₂ yr.: Male: 1355 g Femal e: 1185 g | Up to 1 ¹ / ₂ yr. of age: Body weight : Male: 157.0 0% Femal e: 159 | - | _ | U p to 1 ¹ / ₂ yr. of ag e: Rs 23 | U p to 1 ½ yr. of ag e: Rs 90 | U p to 1 ¹ / ₂ yr. of ag e: Rs 67 | 3. 83 | Up to 1 ¹ / ₂ yr. of age: Rs. 215 0.00 | Up to 1 ¹ / ₂ yr. of age: Rs. 658 0.00 | U p to 1 ¹ / ₂ yr. of ag e: Rs 44 | 3.0 6 | The producti ve perform ances can be increase d by supplem ental feeding |

| 2 | 0 |
|---|---|
| 5 | 0 |

| | | 1 | | | | | | | | | | - | | | 1 | | | | | |
|---|---------|------------|-------|----|----|-----|----------|--------|--------------------|---|---|-----|-----|---------|-----|-------|-------|----|-----|----------|
| | | | | | | | g | | % | | | 75 | 95 | 20 | | | | 30 | | |
| | | | | | | | | | | | | 0. | 5. | 0. | | | | 0. | | |
| | | | | | | | | | | | | 0 | 00 | 0 | | | | 0 | | |
| 6 | Duckery | Improved | Impro | 10 | 10 | 200 | Av. | Av. | Up to | - | - | U | U | U | 1. | Up | Up | U | 0.8 | The |
| _ | (2018- | meat type | ved | | | | Body | Body | $1\frac{1}{2}$ vr. | | | n | n | n | 75 | to | to | n | 5 | technolo |
| | 19) | duck | duck | | | | weigh | weight | of | | | to | to | to | , 0 | 11/2 | 11/2 | to | | ov is |
| | 1)) | duck | Vor | | | | tot | ot 11/ | 0.00 | | | 1 | 1 | 1 | | ur of | 1/2 | 1 | | guitable |
| | | | | | | | 11/ | at 172 | age. | | | | 1/ | | | yr or | yr or | 1/ | | suitable |
| | | | Whit | | | | 172 | yr.: | Body | | | 72 | 72 | 72 | | age: | age: | 72 | | under |
| | | | e | | | | yr.: | Male: | weight | | | yr | yr | yr | | KS. | KS. | yr | | agro- |
| | | | Pekin | | | | Male: | 1525 | : | | | of | of | ot | | 270 | 601 | of | | climatic |
| | | | | | | | 2845g | g | Male: | | | ag | ag | ag | | 0.00 | 5.00 | ag | | conditio |
| | | | | | | | Femal | Femal | 186.5 | | | e: | e: | e: | | | | e: | | ns of |
| | | | | | | | e: | e: | 5% | | | Rs | Rs | Rs | | | | Rs | | Assam. |
| | | | | | | | 2585 | 1325 | Femal | | | | | | | | | | | |
| | | | | | | | g | g | e: | | | 35 | 99 | 64 | | | | 33 | | |
| | | | | | | | Age | Age at | 195.0 | | | 00 | 65 | 65 | | | | 15 | | |
| | | | | | | | at | sexual | 9 | | | 0 | 0 | 0 | | | | 0 | | |
| | | | | | | | sevual | maturi | Faa | | | 0 | 0 | 0 | | | | 0 | | |
| | | | | | | | matur | ty | nrodu | | | | | | | | | | | |
| | | | | | | | ity | 220 | otion | | | | | | | | | | | |
| | | | | | | | 1176 | Deve | | | | | | | | | | | | |
| | | | | | | | 1/0 D | Days | 22/70 | | | | | | | | | | | |
| | | | | | | | Days | Egg | | | | | | | | | | | | |
| | | | | | | | Egg | produ | | | | | | | | | | | | |
| | | | | | | | produ | ction | | | | | | | | | | | | |
| | | | | | | | ction | up to | | | | | | | | | | | | |
| | | | | | | | up to | 1½ yr | | | | | | | | | | | | |
| | | | | | | | 1½ yr | of age | | | | | | | | | | | | |
| | | | | | | | of | :55 | | | | | | | | | | | | |
| | | | | | | | age: | nos. | | | | | | | | | | | | |
| | | | | | | | 125 | ner | | | | | | | | | | | | |
| | | | | | | | nos | duck | | | | | | | | | | | | |
| | | | | | | | ner | uuuk | | | | | | | | | | | | |
| | | | | | | | duck | | | | | | | | | | | | | |
| 7 | Poultry | Higher ago | Onail | 5 | 5 | 120 | Δν | | | | | II | II | II | 1 | | | | 20 | The |
| | (2018 | and most | Quall | 5 | 5 | 120 | Dody | - | - | - | - | 5 | 5 | 5 | 02 | - | - | - | 6 | tachnolo |
| | (2010- | and meat | var. | | | | Body | | | | | P | P | P to | 02 | | | | 0 | |
| | 19) | production | Japan | | | | weigh | | | | | to | to | to | | | | | | gy is |
| | | | ese | | | | t at 4 | | | | | | 1 | 1 | | | | | | suitable |
| | | | quail | | | | month | | | | | yr. | yr. | yr. | | | | | | under |
| | | | | | | | Male: | | | | | of | of | of | | | | | | agrocli |
| | | | | | | | 245 g | | | | | ag | ag | ag | | | | | | matic |
| | | | | | | | Femal | | | | | e: | e: | e: | | | | | | conition |
| | | | | | | | e: 265 | | | | | Rs | Rs | Rs | | | | | | s of |
| | | | | | | | g | | | | | | | | | | | | | Assam |
| | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 1 | 1 1 | 1 . | 1 | 1 | 1 | 1 | | |

| r | - | 1 | 1 | | | 1 | 1 | | | | | r | 1 | |
|---|---|---|---|--|---------|---|---|----|----|----|--|---|---|--|
| | | | | | Age | | | 38 | 93 | 55 | | | | |
| | | | | | at | | | 42 | 60 | 18 | | | | |
| | | | | | sexual | | | .0 | .0 | .0 | | | | |
| | | | | | matur | | | 0 | 0 | 0 | | | | |
| | | | | | ity: 58 | | | | | | | | | |
| | | | | | days | | | | | | | | | |
| | | | | | Egg | | | | | | | | | |
| | | | | | produ | | | | | | | | | |
| | | | | | ction | | | | | | | | | |
| | | | | | up to | | | | | | | | | |
| | | | | | 1 yr. | | | | | | | | | |
| | | | | | of | | | | | | | | | |
| | | | | | age: | | | | | | | | | |
| | | | | | 185 | | | | | | | | | |
| | | | | | nos. | | | | | | | | | |

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

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

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

| (iii) F | isheries | | | | | | | | | | | | | | | | | | | |
|---------|---------------|---------|-----------------------|-----|------|-----------|------------|----------------|-----------|-----------|--------|----|----------------|-----------------|-----|------|-------------------|---------------|-----|-------|
| SI. | Categ | Themati | Name of Technology | No. | No | No. of | M Perfo | ajor rmance | % cha | 0 nara | ther | E | con. o (Rs. | of den /Ha) | 10. | E | con. of (Rs /F | check [9]) | K | Remar |
| 110. | e.g. | t ai ta | reennology | far | of | fish/ | para | meters / | nge | jif | any) | | (13./ | 11a.j | | | (13./1 | La.) | | K5 |
| | Comm | | | mer | unit | finge | indi | cators | in the | De | Check | G | G | N | B | GC | GR | N | B | |
| | on carp, | | | S | S | riings | | | par | mo | | ** | K ** | K ** | | | | ĸ | R | |
| | ornam | | | | | | Dem | | am | | | | | | ** | | | | | |
| | ental fish | | | | | | 0 | Check | eter | | | | | | | | | | | |
| | etc. | | | | | | | | | | | | | | | | | | | |
| 1 | Fish | IFS | Integrated Duck | 3 | 3 | 3000 | Fish | Fish | 42.8 | Duc | Amou | 18 | 57 | 38 | 3. | 150 | 393 | 24 | 2.6 | - |
| | | | cum Farming | | | | Grow | Growth | 5% | k | nt of | 75 | 63 | 87 | 07 | 000. | 750. | 37 | 2 | |
| | | | | | | | th | | incr | gro | feed | 00 | 50 | 50 | | 00 | 00 | 50 | | |
| | | | | | | | and | | ease | wth, | suppli | .0 | .0 | .0 | | | | .0 | | |
| | | | | | | | egg | | Fish | of | fish | 0 | 0 | 0 | | | | 0 | | |
| | | | | | | | laid | | pro | egg | 11511 | | | | | | | | | |
| | | | | | | | by | | duct | laid, | | | | | | | | | | |
| | | | | | | | duck | | ion | amo | | | | | | | | | | |
| | | | | | | | | | | unt | | | | | | | | | | |
| 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | ot | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | feed supp lied to fish. | | | | | | | | | |
|---|------|-----|---|----|----|---------------|--|--|--------|-------------------------------------|----------------------|---------------------------|---------------------------|-------|------------------|-------------------|---------------------------|-------|--|
| 2 | Fish | IFS | Integrated Paddy cum Fish Farming (Rotational type) | 02 | 02 | 1000 0No.s | Fish and Padd y produ ction | Fish and Paddy product ion | 7.14 % | | 61 40 0. 00 | 29 40 00 .0 0 | 23 26 00 .0 0 | 4. 10 | 720 00.0 0 | 283 200. 00 | 21 12 00 .0 0 | 3.9 3 | *The producti on of paddy in check is more than demo, as the farmer used to grow hybrid variety. But the farmer is happy with the producti on of demo paddy, as they prefer it for own consum ption, marketi ng and seed purpose |
| 3 | Fish | IFS | Integrated Pig cum Fish Farming | | | 1500 | Grow th of Fish and Duck | Growth of Fish | | | | | | | | | | | On Going |

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

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

*Result Integrated Paddy cum Fish Farming (Rotational type)

| Unit | Gross Cost | Gross return | Net Return | BCR | % increase in parameter |
|-------|--|--|------------|------|-------------------------------|
| Demo | Fish seed = 6000.00 Seed transportation = 1000.00 Fertilizer (Seed bed) = 500.00 Paddy seed = Rs. 1000.00 Transplanting =Rs.3000.00 fish feed = 10000.00 IPM = 2000.00 Harvesting = 3000.00 Total = 30700.00/ 0.5 Ha = 61400/ha Fish seed = 10000.00 | Fish production= 1050 kg @ Rs. 120/kg=Rs.126000.00/0.5 ha =252000.00/haPaddy= 4200kg/ha Return from paddy = 42000/ha Gross Return = Rs.294000.00/Ha | 232600.00 | 4.10 | 7.14 % |
| Check | Fish seed = 6000.00 Seed transportation = 1000.00 Fertilizer (Seed bed) =800.00 Paddy seed = Rs. 5000.00 Transplanting =Rs.3000.00 fish feed = 10000.00 IPM = 3000.00 Harvesting = 3000.00 Other = 3000.00 Total =36000.00/ 0.5 Ha = 72000/ha | Fish production= 980 kg @ Rs. 120/kg=Rs.117600.00/0.5 ha =235200.00/ha Paddy= 6000kg/ha Return from paddy = 48000/ha Gross Return = Rs.283200.00/Ha | 211200.00 | 3.93 | |

(iv) Other enterprises

| Sl. No. | Categor y/ Enterpri se, e.g., mushro | Them atic area | Name of | No. of | N o. of u | Major Performance parameters / indicators | % cha nge in the | Other parameter (if any) Demo | rs C | Econ. o GC* | of demo. GR* | . (Rs./H NR* | a.) BC | Eco (Rs. | on. of ch ./Ha.) GR | eck N | BC | Remark s | |
|------------|--|-----------------------------|--|-------------|--------------------|--|------------------------------|--|---|----------------|-----------------|-----------------|-----------|-------------|---------------------------|----------|----|-------------|-------------|
| | om, vermico mpost, apicultu re etc. | | lechnology | farm ers | ts | Dem o | Chec k | par am eter | | he ck | * | * | * | R** | С | | R | R | |
| 1 | Honey Bee | Apicul ture | Performance of <i>Apis cerana</i> in ISI-A type bee hives in Dhubri district of Assam | 6 | 6 | Toria yield: 9.25 | Toria yield: 8.10 | 14.1 9 | Honey yield: 1.25 kg/ hive in first extractio n | Ni l | - | - | - | - | - | - | - | - | On going |
| 2 | Honey Bee | Fertiliz ation improv | A Study on Mobile Honey bee keeping in | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | * |

| | | ement in toria | Dhubri district of Assam | | | | | | | | | | | | | | | | |
|---|---|---|---|----|----|--|---|---|---|---|-------|------------|-----------|------|---|---|---|---|----|
| 3 | Crops | Croppi ng system improv ement | A Study in Farmers Copping Mechanism in the context of climate change | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | ** |
| 4 | Mush room (Started in 2018- 19) | Mushr oom cultiva tion | Performance of year round production of Oyster and Milky Mushroom | 10 | 3 | P. sajor caju: 1.35 kg/be d | - | - | Date of preparati on of beds: 20.11.18 Date of first fruiting: 18.12.18 Date of first harvest: 28.12.18 Date of second harvest : 07.01.19 Date of third harvest: 19.01.19 | - | 55.8 | 190.0 | 134. 2 | 3.40 | - | - | - | - | - |
| | | | | | | Caloc ybe indic a Avg. yield: | - | - | Date of preparati on of beds: 03.06.18 Date of | - | 60.00 | 113.0 0 | 53.0 0 | 1.88 | - | - | - | - | - |

| | | | 0.75 | | casing: | | | | | |
|--|--|--|-------|--|-----------|--|--|--|--|--|
| | | | kg/be | | 15.06.18 | | | | | |
| | | | a | | Date of | | | | | |
| | | | | | first | | | | | |
| | | | | | fruiting: | | | | | |
| | | | | | 30.06.18 | | | | | |
| | | | | | Date of | | | | | |
| | | | | | first | | | | | |
| | | | | | harvest: | | | | | |
| | | | | | 08.07.18 | | | | | |
| | | | | | Date of | | | | | |
| | | | | | second | | | | | |
| | | | | | harvest : | | | | | |
| | | | | | 19.07.18 | | | | | |
| | | | | | | | | | | |

*Result of A Study on Mobile Honey bee keeping in Dhubri district of Assam

Results: Salient points are -

- ✤ All honey bee keepers come from Malda, West Bengal
- ♦ On an average they carry 280 nos. of honey bee boxes
- Average no. of persons in a group is 4 and all are having their own boxes
- ♦ All groups come by end of November and establish their boxes at about 1 - 1.5 km distance
- ✤ Average honey extraction/box/batch : 3 kg (based on weather condition)
- Honey is extracted at every 10-12 days interval
- ✤ Atleast Four (4) extractions from every box
- ✤ Total honey extracted from one box: 3kg X 4 extractions X 280 boxes

= 3360 kg

- Price of honey/ kg is Rs. 80/-
- ✤ Total income = Rs.80/- X 3360 kg = Rs. 268800/-
- Covers two batches of crops in one season
- ✤ Gross Income = Rs. 268800 /- X 2 batches = Rs. 5,37,600/-
- ♦ Cost of one box : Rs. 500/-
- Price of frames/ box: 1750/- (7 framed box)
- ✤ Travelling expenditure (up and down) : Rs. 60,000/-
- Money paid to landlord : Rs.2000/- -3000/-
- ✤ Fooding cost = Rs.100/- X 90 days = Rs. 9,000/-
- The extracted honey is collected by different Co-operative societies from the field. Some of them are:

| | 1. Malda Bee Keeing Cooperative Society, Malda |
|---|---|
| | 2. Samaita Apiary, Malda |
| * | 3. Kezriwal Bee Care India Pvt. Ltd., Punjab |
| * | These organizations supply the honey to the following Companies: |
| * | 1. Dobur India Ltd. |
| * | 2. Baidyanath |
| * | 3. Apis |
| * | 4. Shakti |
| * | 5. Patanjali |
| * | The honey is exported to some of the cold countries like USA, Iran etc. |
| * | They move to Malda from Assam to take the opportunity to long duration mustard, Dhaniya and Kaljira crops. Then to Bihar for litchi and Mango crops and |
| | Hoogly for Sesame. |
| | |

** Results of A Study in Farmers Copping Mechanism in the context of climate change

Table 1 : Technology adopted by farmers

| Paramet | | | Climate res | silient situat | ion | | | | Norma | situation | | |
|-----------|----------|------------|-------------|----------------|-------------|------------|----------|------------|----------|--------------|----------|-----------|
| ers | Winter | Summer | Toria | Black | Chilli | Maize | Winter | Summer | Toria | Black gram | Chilli | Maize |
| | rice | rice | | gram | | | rice | rice | | | | |
| Varieties | Swana | PHB 71, | Local, M | Local, | Local, | DKC 9149, | Swana | China, | Local, | Local, | Suryya | DKC |
| used | Sub1, | PAN 2423, | 27, TS 36 | PU 31 | Suryyamuk | DKC 9099, | Sub1, | 29,28, | TS 67 | Suryamukhi | mukhi, | 9149, |
| | Ranjit | Advanta, | | | hi | Makka 4, | Ranjit | Karishma, | | , Saraki, | Local | DKC |
| | sub 1, | Ranjana, | | | | Prakash | sub 1, | Ranjana | | Alipuri | | 9099, |
| | | Karishma | | | | | | | | - | | Makka |
| | | | | | | | | | | | | 4, |
| | | | | | | | | | | | | Prakash |
| Seed | Not | Not | Not | Not | Not | Not | Not | Not | Not | Not | Not | Not |
| treatment | practice | practiced | practiced | practiced | practiced | practiced | practice | practiced | practice | practiced | practice | practiced |
| | d | | | | | | d | | d | | d | |
| Land | Bullock | Bullock | Bullock | Bullock | Bullock | Bullock | Bullock | Bullock | Bullock | Bullock | Bullock | Bullock |
| preparati | plough | plough (10 | plough (10 | plough | plough (10 | plough (10 | plough | plough (20 | plough | plough (20 | plough | plough |
| on | (10%) | %) and | %) and | (10%) | %) and | %) and | (20 %) | %) and | (20 %) | %) and | (20 %) | (20%) |
| | and | tractor | tractor | and | tractor | tractor | and | tractor | and | tractor | and | and |
| | tractor | (90%) | (90%) | tractor | (90%) | (90%) | tractor | (80%) | tractor | (80%) | tractor | tractor |
| | (90%) | | | (90%) | | | (80%) | | (80%) | | (80%) | (80%) |
| Seed rate | Hybrid: | Hybrid: 20 | 11.25 kg/ | 22.5 kg / | Broadcast: | 25 kg/ ha | Hybrid: | Hybrid: 20 | 12 kg/ | 22.5 kg / ha | Broadca | 25 kg/ |
| (kg/ | 20 kg/ | kg/ha, | ha | ha | 7.5 kg / ha | | 20 kg/ | kg/ ha, | ha | | st: 4.0 | ha |
| bigha) | ha, | HYV: 40 | | | Line: 700g/ | | ha, | HYV: 40 | | | kg / ha | |

| | HYV: | kg/ha, | | | ha | | HYV: | kg/ha, | | | Line: | |
|-----------------------|------------------------|------------------------|-------------|----------|------------------------|------------------------|------------------------|------------------------|------------|-------------|------------------------|----------------------|
| | 40 | Local: 75 | | | | | 40 | Local: 75 | | | 700g/ ha | |
| | kg/ha, | kg/ ha | | | | | kg/ha, | kg/ ha | | | | |
| | Local: | | | | | | Local: | | | | | |
| | /5 kg/ | | | | | | /5 kg/ | | | | | |
| ~ | ha | | | | | | ha | | | | | |
| Sowing/ | Broadca | Both Line | Broadcastı | Broadcas | Broadcastin | Line | Broadca | Both Line | Broadca | Broadcastin | Broadca | Line |
| planting | sting | and | ng | ting | g and line | | sting | and | sting | g | sting | |
| method | | Broadcasti | | | | | | Broadcasti | | | and line | |
| | | ng | | | | | 2.5.17 | ng | - | | | |
| Time of | Apr1l/ | Last week | October | August/ | August/ | October/ | May/Jun | Last week | Late | August/ | August/ | October |
| sowing | May | of Dec | | Septemb | September | November | e | of Dec | October | September | Septemb | - |
| | | Mid Jan. | | er | | | | Mid Jan. | - | | er and | Decemb |
| | | | | | | | | | Novemb | | Februar | er |
| | | | | | | | | | er | | y/ | |
| T ' C | | F 1 C | | | O + N | | | F 1 C | | | March | |
| Time of | May/Ju | End of | - | - | Oct./ Nov. | - | May/Jun | End of | - | - | Oct./ | - |
| trans- | ne | January to | | | | | e | January to | | | Nov. | |
| planting | | mid | | | | | | mid | | | | |
| | | February | | | | | | February | | | | |
| TT | 125 | 120 | 110 | 50 | 00 | 250 | 105 | 150 | 100 | 50 | 70 | 220 |
| Urea (lice/ha) | 155 | 120 | 110 | 50 | 88 | 250 | 125 | 150 | 100 | 50 | /0 | 230 |
| (Kg/na) | 200 | 225 | 200 | 120 | 200 | 200 | 220 | 200 | 240 | 120 | 200 | 270 |
| SSP (Kg/ | 200 | 225 | 200 | 120 | 500 | 500 | 220 | 200 | 240 | 120 | 300 | 270 |
| na) | 40 | 45 | 20 | 25 | 45 | 100 | 40 | 45 | 50 | 25 | 15 | 100 |
| MOP | 40 | 45 | 50 | 55 | 43 | 100 | 40 | 43 | 50 | 55 | 43 | 100 |
| (kg/ ha) | 15 | 55 | | | | | 25 | 20 | | | | |
| DAP (ha/ha) | 45 | 55 | - | - | - | - | 33 | 50 | - | - | - | - |
| (Kg/IIa) | | 10 | 10 | | 10 | | | 10 | 10 | | | |
| nutrionts | | 10 | 10 | - | 10 | - | | 10 | 10 | - | - | - |
| (7nSO) | | | | | | | | | | | | |
| (ZIISO ₄) | 4 | 5 | 0 | | 6 | 6 | 2 | 1 | 0 | | | 4 |
| (t/ha) | 4 | 5 | | - | 0 | 0 | 5 | + | | - | _ | + |
| Irrigatio | | 6.7 | 2 | Not | 2_3 | 2 irrigations | | 7 8 | 2 | Not | 2.3 | 2 |
| nof | - | irrigations | irrigations | required | irrigations | | - | irrigations | irrigatio | required | irrigatio | irrigatio |
| crops | | inigations | inigations | required | inigations | | | inigations | ne | | ns | ns |
| Time of | . et | et | | | d et mm | d st TT | 1 \$1 7 7 | 1 \$5 77 | 115 D 1 | D 11 | 115 | 115 1 St T T |
| | 1 st · Urea | 1 st · Urea | Basal dose | Basal | 1°'' I rea | 1°'' I rea | rea | rea | Racal | Racal doce | reo reo | reo |
| annlicati | 1 st : Urea | 1 st : Urea | Basal dose | Basal | 1 st : Urea | 1 st : Urea | I st : Urea | I th : Urea | Basal | Basal dose | I st : Urea | I : Urea |
| opplicati | 1 st : Urea | 1 st : Urea | Basal dose | Basal | 1 st : Urea | 1 st : Urea | I st : Urea | I st : Urea | Basal | Basal dose | I st : Urea | I : Urea |

| fertilizer s/ manures | and DAP as Basal dose 2 nd : Urea 25 DAP | as Basal dose 2 nd : Urea 30 DAP | | | Basal dose 2 nd : Urea 20 DAP | Basal dose 2 nd : Urea 30 DAP 3 rd : 75 DAP | and DAP as Basal dose 2 nd : Urea 25 DAP | as Basal dose 2 nd : Urea 30 DAP | | | and DAP as Basal dose 2 nd : Urea 20 DAP | and DAP as Basal dose 2 nd : Urea 30 DAP 3 rd : 75 DAP |
|--------------------------------|--|---|--|--|--|--|--|---|---|---|--|---|
| PP Measure s | Cyperm ethrin, Malathi on, Chlorop yriphos @ 2.0 ml/ lit water | Cypermeth rin, Malathion, Chloropyri phos @ 2.0 ml/ lit water | Chloropyri phos @ 2.0 ml/ lit water | Malathio n, Chloropy riphos @ 2.0 ml/ lit water | Malathion, Chloropyrip hos @ 2.0 ml/ lit water | - | Cyperm ethrin, Malathi on, Chlorop yriphos @ 2.0 ml/ lit water | Cypermeth rin, Malathion, Chloropyri phos @ 2.0 ml/ lit water | Chlorop yriphos @ 2.0 ml/ lit water | Malathion, Chloropyrip hos @ 2.0 ml/ lit water | Malathi on, Chlorop yriphos @ 2.0 ml/ lit water | - |
| Weed manage ment | Need based | Two weeding: one chemical weeding and one hand weeding | - | - | 1 st : 25 DAP 2 nd : 50-60 DAP | 1 st : 25 DAP 2 nd : 50-60 DAP | Need based | Two weeding: one chemical weeding and one hand weeding | - | - | 1 st : 25 DAP 2 nd : 50- 60 DAP | 1 st : 25 DAP 2 nd : 50- 60 DAP |
| Method of harvestin g | Using sickle | Using sickle | Uprooting | Uprootin g | Plucking by hand | Using sickle | Using sickle | Using sickle | Uprooti ng | Uprooting | Pluckin g by hand | Using sickle |
| No. of plucking | | - | - | - | 7-10 Plucking | - | | - | - | - | 7-10 Pluckin g | - |

| | Climate | resilient sit | uation | | | | Normal | situation | | | | |
|--|----------------|----------------|--------|-----------|--------|-------|----------------|----------------|-------|-----------|--------|-------|
| Cost items (Rs.) | Winter rice | Summer Rice | Toria | Blackgram | Chilli | Maize | Winter rice | Summer Rice | Toria | Blackgram | Chilli | Maize |
| Cost A1 | | | | | | | | | | | | |
| Hired human labour | 20400 | 23500 | 9000 | 8500 | 18400 | 16400 | 17800 | 23500 | 9660 | 9200 | 18900 | 15600 |
| Land ptreparation (Tractor/ Power tiller/ manual) | 3375 | 3375 | 3000 | 2400 | 3560 | 3560 | 3375 | 3375 | 3300 | 2400 | 3560 | 3600 |
| Seeds | 2250 | 2200 | 450 | 1800 | 1380 | 4640 | 1860 | 1900 | 450 | 1800 | 1450 | 5000 |
| Fertilizers | 5330 | 6460 | 4440 | 2330 | 5410 | 7300 | 4760 | 5700 | 4640 | 2400 | 5560 | 7000 |
| Manures | 800 | 1150 | 0 | 0 | 1200 | 1200 | 1000 | 1150 | 0 | 0 | 1100 | 1400 |
| Plant protection chemicals | 1300 | 1240 | 1000 | 1000 | 1560 | 1000 | 1200 | 1240 | 1300 | 1100 | 1600 | 1700 |
| Irrigation | 0 | 15000 | 0 | 0 | 7400 | 7400 | 0 | 15500 | 0 | 0 | 7400 | 7400 |
| Nursery preparation | 1500 | 1500 | 0 | 0 | 1500 | 1500 | 1500 | 1500 | 0 | 0 | 1500 | 1500 |
| Repairing of machinaries | 1500 | 2000 | 1200 | 1300 | 2200 | 1700 | 1640 | 2100 | 1050 | 0 | 2400 | 1250 |
| Total working capital | 36455 | 56425 | 19090 | 17330 | 42610 | 44700 | 33135 | 55965 | 20400 | 16900 | 43470 | 44450 |
| Interest on working capital @6% | 2187 | 3386 | 1145 | 1040 | 2557 | 2682 | 1988 | 3358 | 1224 | 1014 | 2608 | 2667 |
| Depreciation | 395 | 395 | 450 | 450 | 450 | 450 | 395 | 395 | 450 | 450 | 450 | 450 |
| Land revenue | 670 | 670 | 670 | 670 | 670 | 670 | 670 | 670 | 670 | 670 | 670 | 670 |
| Miscellaneous (transportation, baskets, rope etc.) | 1000 | 1100 | 1000 | 1300 | 1800 | 1800 | 1130 | 1300 | 1000 | 1300 | 1800 | 2300 |
| Total of Cost A1 | 40707 | 61976 | 22355 | 20790 | 48087 | 50302 | 37318 | 61688 | 23744 | 20334 | 48998 | 50537 |

 Table 2: Economics and cost of cultivation of different crops (Rs./ha) according to cost concept

| Cost A2 | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cost A1 | 40707 | 61976 | 22355 | 20790 | 48087 | 50302 | 37318 | 61688 | 23744 | 20334 | 48998 | 50537 |
| Rent paid for leased in land | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total of Cost A2 | 40707 | 61976 | 22355 | 20790 | 48087 | 50302 | 37318 | 61688 | 23744 | 20334 | 48998 | 50537 |
| Cost B1 | | | | | | | | | • | | | |
| Cost A1 | 40707 | 61976 | 22355 | 20790 | 48087 | 50302 | 37318 | 61688 | 23744 | 20334 | 48998 | 50537 |
| Interest on value of owned fixed capital (excluding land) @10% on depreciated value of fixed capital | 1330 | 1530 | 1260 | 1140 | 1400 | 1460 | 1250 | 1330 | 1260 | 1140 | 1400 | 1460 |
| Total of Cost B1 | 42037 | 63506 | 23615 | 21930 | 49487 | 51762 | 38568 | 63018 | 25004 | 21474 | 50398 | 51997 |
| Cost B2 | I | | | | | | | | | | | |
| Cost B1 | 42037 | 63506 | 23615 | 21930 | 49487 | 51762 | 38568 | 63018 | 25004 | 21474 | 50398 | 51997 |
| Rental value of owned land (Actual value to be paid for use of own land) | 3000 | 3000 | 3000 | 1500 | 3000 | 1800 | 2700 | 2700 | 3000 | 1900 | 3200 | 2000 |
| Total of Cost B2 | 45037 | 66506 | 26615 | 23430 | 52487 | 53562 | 41268 | 65718 | 28004 | 23374 | 53598 | 53997 |
| Cost C1 | | | | | | | | | • | | | |
| Cost B1 | 42037 | 63506 | 23615 | 21930 | 49487 | 51762 | 38568 | 63018 | 25004 | 21474 | 50398 | 51997 |
| Imputed value of family labour | 13400 | 15400 | 7200 | 9400 | 18500 | 11300 | 16700 | 13900 | 9200 | 10400 | 19200 | 14300 |
| Total of Cost C1 | 55437 | 78906 | 30815 | 31330 | 67987 | 63062 | 55268 | 76918 | 34204 | 31874 | 69598 | 66297 |
| Cost C2 | l I | | I | | | | | | | 1 | | |
| Cost B2 | 45037 | 66506 | 26615 | 23430 | 52487 | 53562 | 41268 | 65718 | 28004 | 23374 | 53598 | 53997 |

| Imputed value of family labour | 13400 | 15400 | 7200 | 9400 | 18500 | 11300 | 16700 | 13900 | 9200 | 10400 | 19200 | 14300 |
|--------------------------------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|
| | | | | | | | | | | | | |
| Total of Cost C2 | 58437 | 81906 | 33815 | 32830 | 70987 | 64862 | 57968 | 79618 | 37204 | 33774 | 72798 | 68297 |
| Cost C3 | | | | | | | | | I | | | |
| Cost C2 | 58437 | 81906 | 33815 | 32830 | 70987 | 64862 | 57968 | 79618 | 37204 | 33774 | 72798 | 68297 |
| 10% of Cost C2 | 5844 | 8191 | 3382 | 3283 | 7099 | 6486 | 5797 | 7962 | 3720 | 3377 | 7280 | 6830 |
| Total of Cost C3 | 64281 | 90096 | 37197 | 36113 | 78085 | 71348 | 63765 | 87580 | 40924 | 37151 | 80078 | 75127 |
| Yield (kg/ha) | 4600 | 8600 | 970 | 620 | 8250 | 4200 | 4500 | 8000 | 950 | 600 | 8100 | 3970 |
| Price (Rs. /kg) | 14.00 | 14.00 | 40.00 | 80.00 | 23.10 | 22.50 | 14.00 | 13.90 | 40.00 | 80.00 | 22.50 | 22.50 |
| Gross return (Rs.) | 64400 | 120400 | 38800 | 49600 | 190575 | 94500 | 63000 | 111200 | 38000 | 48000 | 182250 | 89325 |
| B:C ratio | 1.10 | 1.47 | 1.15 | 1.51 | 2.68 | 1.46 | 1.09 | 1.40 | 1.02 | 1.42 | 2.50 | 1.31 |

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

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

(v) Farm Implements and Machinery: Nil

| Sl. No. | Name of | Crop | Name of | No. of | Area | Field obs | servation | % change | Labour | Cost | Remarks |
|---------|-----------|------|-----------|---------|----------|------------|------------|-----------|------------|--------------|---------|
| | implement | | Technolog | farmers | (In ha.) | (Output/ n | nan-hours) | in the | reduction | reduction | |
| | | | y | | | | | parameter | (Man days) | (Rs. per ha. | |
| | | | demonstra | | | | | | | or Rs. per | |
| | | | ted | | | | | | | unit etc) | |
| | | | icu | | | Demo Check | | | | unit etc.) | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | |

f. Performance of FLD on Crop Hybrids(Boro Season): Nil

| Crop | Name of | Area | No. of | Avg. | yield | % | Addit | tional | Eco | on. of dem | 0. (Rs./Ha. |) | E | con. of che | ck (Rs./Ha | .) |
|------|---------|-------------------------|------------------------------------|---|---|---|--|--|---|--|---|--|---|--|--|---|
| | hybrids | (ha.) | farmers | (Q/h | na.) | increase | data | a on | | | | | | | | |
| | | | | | | in Avg. | demo. | . yield | | | | | | | | |
| | | | | | | yield | (Q/ | ha.) | | | | | | | | |
| | | | | Demo. | Check | | H* | L* | GC** | GR** | NR** | BCR | GC | GR | NR | BCR |
| | | | | | | | | | | | | ** | | | | |
| | | | | | | | | | | | | | | | | |
| | Сгор | Crop Name of hybrids | Crop Name of Area hybrids (ha.) | Crop Name of Area No. of hybrids (ha.) farmers | Crop Name of Area No. of Avg. ; hybrids (ha.) farmers (Q/I | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield (Q/ha.) Demo. Check | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield % increase in Avg. yield Demo. Check | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield % Addition hybrids (ha.) farmers (Q/ha.) increase in Avg. data vield Q/ha.) vield (Q/ha.) increase data Demo. Check H* | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield % Additional increase data on in Avg. yield (Q/ha.) increase in Avg. yield data on demo. yield Demo. Check H* L* | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield (Q/ha.) % Additional increase yield Eco data on (Q/ha.) Demo. Check H* L* GC** | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield (Q/ha.) % Additional increase yield Econ. of demo data on (Q/ha.) Demo. Check H* L* GC** GR** | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield (Q/ha.) % increase yield Additional data on yield Econ. of demo. (Rs./Ha. Demo. Check H* L* GC** GR** NR** | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield (Q/ha.) % Additional data on in Avg. yield Econ. of demo. (Rs./Ha.) Demo. Check H* L* GC** GR** NR** BCR ** | Crop Name of hybrids Area No. of (ha.) Area No. of farmers Avg. yield % Additional Econ. of demo. (Ks./Ha.) Econ. of demo. (Ks./Ha.) bybrids (ha.) farmers (Q/ha.) increase in Avg. yield data on (Q/ha.) data on demo. yield % bemo. Check The control of demo. (Ks./Ha.) Ks./Ha.) Ks./Ha.) Ks./Ha.) Ks./Ha.) | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield (Q/ha.) % Additional data on in Avg. yield Econ. of demo. (Rs./Ha.) Econ. of check Demo. Check H* L* GC** GR** NR** BCR ** GC GR | Crop Name of hybrids Area (ha.) No. of farmers Avg. yield (Q/ha.) % Additional data on in Avg. yield Econ. of demo. (Rs./Ha.) Econ. of check (Rs./Ha Demo. Check Mathematical Mathematical |

| | | | | | | | 1 |
|--|--|--|--|--|--|--|---|
| | | | | | | | 1 |
| | | | | | | | 1 |
| | | | | | | | 1 |
| | | | | | | | |

Performance of FLD on Crop Hybrids (Sali season): Nil

| SI. No. | Сгор | Name of hybrids | Area (ha.) | No. of farmers | Avg. (Q/ | yield ha.) | % increase in Avg. yield | Addi dat demo (Q/ | tional a on . yield ha.) | Eco | on. of dem | o. (Rs./Ha | .) | E | con. of che | ck (Rs./Ha | .) |
|------------|------|--------------------|---------------|-------------------|-------------|---------------|--------------------------------|----------------------------|-----------------------------------|------|------------|------------|-----------|----|-------------|------------|-----|
| | | | | | Demo. | Check | | H* | L* | GC** | GR** | NR** | BCR ** | GC | GR | NR | BCR |
| | | | | | | | | | | | | | | | | | |

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

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

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

3.3. Achievements on Training

3.3.1. Farmers and Farm Women in On Campus including Sponsored On Campus Training Programmes training programmes sponsored by external agencies)

(*Sp. On means On Campus

| | No. of | Courses/ | prog | | | | | | | | | | Part | ticipants | | | | | | | | |
|--|---------------|------------|-------|-----------|------------------|-----------|------------------|-------------------|--------------------------|-----------|------------------|------------|-------------------|------------------------|---------------------------|-------------|--------------------|--------------|---------------------|-----------------------|---------------------------|------------------|
| | | | | | | Gei | neral | | | | | S | C/ST | | | | | To | otal | | | |
| | 0. | Spon | Total | N | 1ale | Fei | male | To | otal | Μ | ale | Fei | male | To | otal | M | ale | Fer | nale | T | otal | Crond |
| Thematic area | Campus (1) | On* (2) | (1+2) | On (4) | Sp. On (5) | On (6) | Sp. On (7) | On (a= 4+6) | Sp. On (b= 5+7) | On (8) | Sp. On (9) | On (10) | Sp. On (11) | On (c= 8+10) | Sp. On (d= 9+11) | On (4+8) | Sp. On (5+9) | On (6+10) | Sp. On (7+11) | On (x= a +c) | Sp. On (y= b +d) | Total (x + y) |
| | | | | | | | | | I. Cr | op Pr | oducti | on | | | | | | | | | | |
| Weed Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Resource Conservation Technologies | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Crop | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Diversification | | | | | | | | | | | | | | | | | | | | | | |
|------------------|----|---|---|---|---|-----|---|---|-----|-------|--------|---|---|---|---|---|---|---|---|---|---|---|
| Integrated | | | | | | | | | | | | | | | | | | | | | | |
| Farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Water | | | | | | | | | | | | | | | | | | | | | | |
| management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nurserv | | | | | | | | | | | | | | | | | | | | | | |
| management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop | | | | | | | | | | | | | | | | | | | | | | |
| Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fodder | | | | | | | | | | | | | | | | | | | | | | |
| production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of | | | | | | | | | | | | | | | | | | | | | | |
| organic inputs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | 1 | | 1 | | 1 | 1 | II. | Horti | cultur | e | 1 | 1 | I | 1 | 1 | 1 | 1 | 1 | 1 | |
| a) Vegetable Cro | os | | | | | | | | | | | | | | | | | | | | | |
| Production of | | | | | | | | | | | | | | | | | | | | | | |
| low volume and | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| high value crops | | | | | | | | | | | | | | | | | | | | | | |
| Off-season | | | | | | | | | | | | | | | | | | | | | | |
| vegetables | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nursery raising | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Exotic | | | | | | | | | | | | | | | | | | | | | | |
| vegetables like | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Broccoli | | | | | | | | | | | | | | | | | | | | | | |
| Export potential | | | | | | | | | | | | | | | | | | | | | | |
| vegetables | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Grading and | | | | | | | | | | | | | | | | | | | | | | |
| standardization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Protective | | | | | | | | | | | | | | | | | | | | | | |
| cultivation | | | | | | | | | | | | | | | | | | | | | | |
| (Green Houses, | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Shade Net etc.) | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | 1 | | | | | | b) Fr | uits | | | 1 | 1 | | | | | | | |
| Training and | | | | | | | | | | Ĺ | | | | | | | | | | | | |
| Pruning | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Layout and | | | | | | | | | | | | | | | | | | | | | | |
| Management of | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Orchards | | | | | | | | | | | | | | | | | | | | | | |
| Cultivation of | | | | | | | | | | | | | | | | | | | | İ | | |
| Fruit | - | - | - | - | - | - | - | - | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management of | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| young plants/orchards | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|-------|-------|----------|------|---|---|---|---|---|---|---|---|---|---|
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Export potential fruits | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Micro irrigation systems of | _ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| orchards | | | | | | | | | | | | | | | | | | | | | | |
| Plant propagation techniques | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | 1 | | | | c) Or | namei | ntal Pla | ants | | | | | | | | 1 | | |
| Nursery Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management of potted plants | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Export potential of ornamental plants | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Propagation techniques of Ornamental Plants | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | 1 | | 1 | | | | | d) P | antat | ion cro | DDS | | | | | | | I | | 1 | |
| Production and | | | | | | | | | | | | | | | | | | | | | | |
| Management technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | - | - | e) | Tube | r crops | 5 | | | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | f) Sp | ices | | | | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | g) M | edicina | l and | Aroma | atic Pl | ants | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|----------|---------|--------|---------|--------------|-------|----|---|---|---|---|---|---|---|---|
| Nursery | _ | | | | _ | | _ | | _ | _ | | | _ | _ | _ | _ | | _ | _ | _ | _ | _ |
| management | _ | _ | - | | - | _ | _ | _ | _ | _ | - | _ | _ | - | _ | _ | _ | _ | - | _ | _ | _ |
| Production and | | | | | | | | | | | | | | | | | | | | | | |
| management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| technology | | | | | | | | | | | | | | | | | | | | | | |
| Post harvest | | | | | | | | | | | | | | | | | | | | | | |
| technology and | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| value addition | ion III Soil Health and Fertility Management | | | | | | | | | | | | | | | | | | | | | |
| | Annon Image: Solid Health and Fertility Management rtility Image: Solid Health and Fertility Management | | | | | | | | | | | | | | | | | 1 | 1 | 1 | | 1 |
| Soil fertility | ity | | | | | | | | | | | | | | | - | - | - | - | _ | _ | _ |
| management | | | | | | | | | | | | | | | | | | | | | | |
| Soil and Water | - | - | - | - | - | - | - | - | _ | - | - | - | - | - | _ | - | - | - | - | - | - | - |
| Conservation | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | | | | | | | | | | | | | | | | | | | | | | |
| Nutrient | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management | | | | | | | | | | | | | | | | | | | | | | |
| Production and | | | | | | | | | | | | | | | | | | | | | | |
| use of organic | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| inputs | | | | | | | | | | | | | | | | | | | | | | |
| Management of | | | | | | | | | | | | | | | | | | | | | | |
| Problematic | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| soils | | | | | | | | | | | | | | | | | | | | | | |
| Micro nutrient | | | | | | | | | | | | | | | | | | | | | | |
| deficiency in | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| crops | | | | | | | | | | | | | | | | | | | | | | |
| Nutrient Use | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Efficiency | | | | | | | | | | | | | | | | | | | | | | |
| Soil and Water | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Testing | | | | | | | | <u> </u> | | | | | | | | | | | | | | |
| | 1 | 1 | 1 | | 1 | | | Livest | ock Pr | oducti | ion and | <u>l Man</u> | ageme | nt | 1 | 1 | | 1 | 1 | 1 | 1 | |
| Dairy | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management | | | | | | | | | | | | | | | | | | | | | | |
| Poultry | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management | | | | | | | | | | | | | | | | | | | | | | |
| Piggery | _ | _ | - | _ | _ | _ | _ | _ | _ | - | - | _ | - | _ | _ | _ | - | _ | - | _ | _ | - |
| Management | | | | | | | | | | | | | | | | | | | | | | |
| Rabbit | - | - | - | - | _ | - | - | - | _ | - | - | - | - | - | - | _ | - | - | - | - | - | - |
| Management | | | | | | | | | | | | | | | | | | | | | | |
| Disease | - | - | - | - | _ | - | - | - | _ | - | - | - | - | - | - | _ | - | - | - | - | - | - |
| Management | | | | | | | | | | | | | | | | | | | | | | |
| Feed | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| management | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|-----|------|-------|------|--------|------|--------|---|---|---|-----|---|-----|---|---|---|
| Production of | | | | | | | | | | | | | | | | | | | | | | |
| quality animal | - | - | - | - | _ | - | - | - | - | - | - | _ | _ | _ | _ | _ | - | - | - | _ | - | _ |
| products | | | | | | | | | | | | | | | | | | | | | | |
| | I | 1 | 1 | 1 | 1 | 1 | V | Home | Scien | e/Wo | men ei | nnow | erment | - | I | I | | 1 | | | | I |
| Household food | | | | | | | | | | | | | | | | | | | | | | |
| security by | | | | | | | | | | | | | | | | | | | | | | |
| kitchen | | | | | | | | | | | | | | | | | | | | | | |
| gardening and | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| nutrition | | | | | | | | | | | | | | | | | | | | | | |
| gardening | | | | | | | | | | | | | | | | | | | | | | |
| Design and | | | | | | | | | | | | | | | | | | | | | | |
| development of | _ | _ | _ | | _ | | | | _ | _ | _ | _ | _ | _ | _ | | | _ | _ | | _ | _ |
| low/minimum | _ | _ | _ | - | | - | | _ | _ | | - | _ | _ | _ | _ | | - | _ | - | _ | _ | _ |
| cost diet | | | | | | | | | | | | | | | | | | | | | | |
| Designing and | | | | | | | | | | | | | | | | | | | | | | |
| development for | - | - | - | - | _ | - | - | - | - | - | - | _ | _ | _ | _ | _ | - | - | - | _ | - | _ |
| high nutrient | | | | | | | | | | | | | | | | | | | | | | |
| efficiency diet | | | | | | | | | | | | | | | | | | | | | | |
| Minimization of | | | | | | | | | | | | | | | | | | | | | | |
| nutrient loss in | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| processing | | | | | | | | | | | | | | | | | | | | | | |
| Gender | | | | | | | | | | | | | | | | | | | | | | |
| through SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Storage loss | | | | | | | | | | | | | | | | | | | | | | |
| minimization | _ | _ | - | _ | _ | _ | - I | | _ | _ | _ | _ | _ | _ | _ | _ | - I | _ | - I | _ | _ | _ |
| techniques | | | | | | | | | | | | | | | | | | | | | | |
| Value addition | - | - | - | - | - | - | - | - | - | - | - | - | _ | - | - | - | - | - | - | - | - | _ |
| Income | | | | | | | | | | | | | | | | | | | | | | |
| generation | | | | | | | | | | | | | | | | | | | | | | |
| activities for | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| empowerment of | | | | | | | | | | | | | | | | | | | | | | |
| rural Women | | | | | | | | | | | | | | | | | | | | | | |
| Location | | | | | | | | | | | | | | | | | | | | | | |
| specific | | | | | | | | | | | | | | | | | | | | | | |
| drudgery | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| reduction | | | | | | | | | | | | | | | | | | | | | | |
| technologies | | | | | | | | | | | | | | | | | | | | | | |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Women and | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| child care | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | VI Ag | ril. E | nginee | ring | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|-------|---------|---------|------|---|---|---|---|---|---|---|---|---|---|
| Installation and maintenance of micro irrigation systems | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Use of Plastics in farming practices | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of small tools and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Small scale processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 1 | | | | | 1 | | | VII F | lant l | Protect | ion | | | 1 | | | | 1 | 1 | | |
| Integrated Pest Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated Disease Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bio-control of pests and diseases | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of bio control agents and bio pesticides | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | V | III Fis | sheries | | | | | | | | | | | |
| Integrated fish farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carp breeding and hatchery management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carp fry and fingerling rearing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Composite fish culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|---|---|---|---|---|---|---|---|----|--------|--------|---------|---------|-----|---|---|---|---|---|---|---|---|---|
| Hatchery management and culture of freshwater prawn | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Breeding and culture of ornamental fishes | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Portable plastic carp hatchery | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pen culture of fish and prawn | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Edible oyster farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fish processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 1 | 1 | 1 | 1 | 1 | | | IX | Produc | tion o | of Inpu | ts at s | ite | | I | | | | | I | | |
| Seed Production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bio-agents production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bio-pesticides production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bio-fertilizer production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vermi-compost production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Organic manures production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of fry and fingerlings | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of Bee-colonies and wax sheets | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Small tools and | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| implements | | | | | | | | | | | | 1 | | | | | | | | | | <u>г</u> |
|--------------------|--------|----------|---------|--------------|--------|-------|-------|-------------|------------------------|---------|-------------|--------|-----------------|--------|--------|---------|---------------|--------|--------|------|------|----------|
| Production of | | | | | | | | | | | | | | | | | | | | | | |
| livestock feed | | | | | | | | | | | | | | | | | | | | | | |
| and fodder | _ | - | - | | - | - | - | _ | _ | - | _ | - | _ | _ | _ | _ | - | _ | _ | _ | | - |
| Broduction of | | | | | | | | | | | | | | | | | | | | | | |
| Figh food | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TISH ICCU | | | | | | | V (| l Tamaai | 4 D | din a s | | D | | | | | | | | | | |
| Landaushin | | | | | | | | _apaci | ty Bull | uing a | ina Gr | oup D | ynami | cs | | | | | 1 | | | |
| development | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Group dynamics | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Formation and | | | | | | | | | | | | | | | | | | | | | | |
| Management of SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mobilization of | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Entrepreneurial | | | | | | | | | | | | | | | | | | | | | | |
| development of | | | | | | | | | | | | | | | | | | | | | | |
| farmers/youths | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WTO and IPP | | | | | | | | | | | | | | | | | | | | | | |
| w IO allu IFK | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 135405 | | | | | | | | | VI | Agro | forest | PX7 | | | | | | | | | | |
| Production | | | | | | | | | | Agro- | lorest | y | | | | | | | | | | |
| technologies | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nursery | | | | | | | | | | | | | | | | | | | | | | |
| management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated | | | | | | | | | | | | | | | | | | | | | | |
| Farming | | | | | | | | | | | | | | | | | | | | | | |
| Systems | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Systems | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.3.2. Achiev | ements | on Tra | ining o | f <u>Far</u> | mers a | nd F | arm V | Vomei | <u>n</u> in <u>O</u> 1 | ff Ca | <u>mpus</u> | incluc | ling <u>S</u> l | ponsoi | ed Off | f Cam | <u>ous</u> Tr | aining | Progra | mmes | | |
| | | | (*\$ | Sp. Of | ff mea | ns Of | f Cam | pus ti | raining | g prog | gramı | nes sp | onsor | ed by | extern | al agei | ncies) | _ | _ | | | |
| | No. of | Courses | | | _ | | | | | | | n | outioina | | | | | | | | | |
| | NO. 0I | Courses/ | prg. | Participants | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Th | | | | | | Ge | nerai | | | | | 3 | 0/51 | | | | | 10 | otai | | | Grand |
| i nematic area | Off | Sp | Total | h / | آمام | E. | male | т | atal | R.A | [م]م | E. | male | т | atal | м | ماه | E | nala | т | otol | Total |
| | OII | Off* | Total | I IV. | iale | re | maie | | nai | IN I | ale | rei | maie | | JUAI | IN IN | ale | rer | nate | | ULAI | |
| | | | | Off | Sp | Off | Sp | Off | Sp | Off | Sp | Off | Sp | Off | Sp | Off | Sp | Off | Sp | Off | Sp | |
| | | | | OII | Off* | | Off* | UII | Off* | UI | Off* | UI | Off* | UII | Off* | UII | Off* | UI | Off* | UII | Off* | |

| | | | | | | | | | I. Cı | op Pı | oducti | on | | | | | | | | | | |
|---|--|---|---|---|---|---|---|---|-------|--------|---------|-----|---|---|---|---|---|---|---|---|---|---|
| Weed Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Resource Conservation Technologies | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cropping Systems | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Crop Diversification | op - | | | | | | | | | | | | | | | - | | | | | | |
| Integrated Farming | iegrated Image: Constraint of the second s | | | | | | | | | | | | | | | - | | | | | | |
| Water management | ining i <td>-</td> | | | | | | | | | | | | | | | - | | | | | | |
| Seed production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nursery management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated Crop Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fodder production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | II. | Horti | cultur | e | | | | | | | | | | |
| | | | | | | | | | a) V | egetal | ole Cro | ops | | | | | | | | | | |
| Production of low volume and high value crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Off-season vegetables | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nursery raising | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Exotic vegetables like Broccoli | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Export potential vegetables | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|--|---|---|---|---|---|---|---|---|-------|-------|----------|------|---|---|---|---|---|---|---|---|---|---|
| Grading and standardization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Protective cultivation (Green Houses, Shade Net etc.) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | b) Fr | uits | | | | | | | | | | | |
| Training and Pruning | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Layout and Management of Orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cultivation of Fruit | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management of young plants/orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Export potential fruits | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Micro irrigation systems of orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Plant propagation techniques | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | c) Or | namei | ntal Pla | ants | 1 | | | | | | | | | |
| Nursery Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management of potted plants | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Export potential of ornamental plants | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Propagation techniques of | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | | | | | | | | | | | 60 |
|--|---|---|---|----|---|---|---|--------|----------|--------|----------|---------|--------|----|---|----|---|---|---|----|---|----|
| Ornamental Plants | | | | | | | | | | | | | | | | | | | | | | |
| | | | | · | | | | | d) P | lantat | ion cro | ps | | | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | e) | Tube | r crops | | | | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | | f) Sp | ices | | | | | | | | | | | |
| Production and Management technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | g) M | edicina | l and | Aroma | atic Pl | ants | | | | | | | | | |
| Nursery management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production and management technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post harvest technology and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | Ш | Soil I | Iealth a | and F | ertility | Mana | agemen | it | | | | | | | | |
| Soil fertility management | 1 | - | 1 | 25 | - | - | - | 25 | - | - | - | - | - | - | - | 25 | - | - | - | 25 | - | 25 |

| Soil and Water Conservation | 1 | - | 1 | 20 | - | 5 | - | 25 | - | - | - | - | - | - | - | 20 | - | 5 | - | 25 | - | 25 |
|---|---|---|---|----|---|----|----|--------|--------|--------|---------|-------|--------|----|---|----|---|----|---|----|---|----|
| Integrated Nutrient Management | 2 | - | 2 | 39 | - | 11 | - | 50 | - | - | - | - | - | - | - | 39 | - | 11 | - | 50 | - | 50 |
| Production and use of organic inputs | 3 | - | 3 | 75 | - | 1 | - | 76 | - | - | - | - | - | - | - | 75 | - | 1 | - | 76 | - | 76 |
| Management of Problematic soils | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Micro nutrient deficiency in crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nutrient Use Efficiency | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Soil and Water Testing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | IV | Livest | ock Pr | oducti | ion and | d Man | ageme | nt | | | | | | | | |
| Dairy Management | 1 | - | 1 | - | - | 26 | - | 26 | - | - | - | 26 | - | 26 | - | - | - | 26 | - | 26 | - | 26 |
| Poultry Management | 2 | - | 2 | - | - | 40 | - | 40 | - | - | - | 40 | - | 40 | - | - | - | 40 | - | 40 | - | 40 |
| Piggery Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rabbit Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Disease Management | 1 | - | 1 | 24 | - | - | - | 24 | - | 1 | - | - | - | 1 | - | 25 | - | - | - | 25 | - | 25 |
| Feed management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of quality animal products | 1 | - | 1 | 25 | - | - | - | 25 | - | - | - | - | - | 25 | - | 25 | - | - | - | 25 | - | 25 |
| | | | | | | | V | Home | Scien | ce/Wo | men e | mpow | erment | t | | | | | | | | |
| Household food security by kitchen | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| gardening and nutrition | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----------|---------|--------|------|---|---|---|---|---|---|---|---|---|---|
| gardening | | | | | | | | | <u> </u> | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Designing and development for high nutrient efficiency diet | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Minimization of nutrient loss in processing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Storage loss minimization techniques | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Income generation activities for empowerment of rural Women | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Location specific drudgery reduction technologies | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Women and child care | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | VI Ag | ril. Eı | nginee | ring | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Use of Plastics in farming practices | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|--|---|---|---|---------|---|----|---|-----|-------|---------|---------|-----|---|----|---|-----|---|----|---|-----|---|-----|
| Production of small tools and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Small scale processing and value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post Harvest Technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | | VII P | lant l | Protect | ion | | | | | | | | | | |
| Integrated Pest Management | 5 | - | 5 | 94 | - | 38 | - | 132 | - | - | - | - | - | - | - | 94 | - | 38 | - | 132 | - | 132 |
| Integrated Disease Management | 1 | - | 1 | 21 | - | 5 | - | 26 | - | - | - | - | - | - | - | 21 | - | 5 | - | 26 | - | 26 |
| Bio-control of pests and diseases | 1 | - | 1 | 25 | - | - | - | - | - | - | - | - | - | - | - | 25 | - | - | - | 25 | - | 25 |
| Production of bio control agents and bio pesticides | 1 | - | 1 | - | - | - | - | - | - | 9 | - | 18 | - | 27 | - | 9 | - | 18 | - | - | - | 27 |
| | | | | | | | | | V | III Fis | sheries | | | | | | | | | | | |
| Integrated fish farming | 5 | - | 5 | 12 0 | - | 5 | - | 125 | - | - | - | - | - | - | - | 120 | - | 5 | - | 125 | - | 125 |
| Carp breeding and hatchery management | 2 | - | 2 | 49 | - | 6 | - | 55 | - | - | - | - | - | - | - | 49 | - | 6 | - | 55 | - | 55 |
| Carp fry and fingerling rearing (Non conventional Fisah Farming) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Carp fry and fingerling rearing | 1 | - | 1 | 25 | - | - | - | 25 | - | - | - | - | - | - | - | 25 | - | - | - | 25 | - | 25 |
|---|---|---|---|----|---|----|---|----|--------|---------|---------|---------|-----|---|---|----|---|----|---|----|---|----|
| Composite fish culture | 1 | - | 1 | 25 | - | 2 | - | 27 | - | - | - | - | - | - | - | 25 | - | 2 | - | 27 | - | 27 |
| Hatchery management and culture of freshwater prawn | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Breeding and culture of ornamental fishes | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Portable plastic carp hatchery | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pen culture of fish and prawn | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Edible oyster farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fish processing and value addition | 1 | - | 1 | 1 | - | 24 | - | 25 | - | - | - | - | - | - | - | 1 | - | 24 | - | 25 | - | 25 |
| Aquaculture (Aquarium Preparation) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | | IX | Produc | ction o | of Inpu | ts at s | ite | | | | | | | | | |
| Seed Production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bio-agents production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bio-pesticides production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Bio-fertilizer production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|---|-----|---|-----|--------|---|-------------------|----|--------------------|------------------------|----------------------------|-----------------------------|------------------------|-------|------|---|--------------------|---|------|---|--------------------|---|--------------------|
| Vermi-compost production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Organic manures production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of fry and fingerlings | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of Bee-colonies and wax sheets | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Small tools and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of livestock feed and fodder | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of Fish feed | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | | | | | XC | Capaci | ty Buil | ding a | nd Gr | oup D | ynami | cs | | | | | | | | |
| Leadership development | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Group dynamics | | | | | | | | | | | | | | | | | | | | | | |
| 1 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs Mobilization of social capital | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths | 6 | - | 6 | | - | 29 | - | 147 | - | 18 | - | 13 | - | 31 | - | - - - 165 | - | 33 | - | - - 198 | - | 198 |
| Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues | - 6 | - | - 6 | 11 8 - | - | - - 29 - | - | - - 147 - | - | - - 18 | - | - - 13 | | 31 | - | - - 165 - | - | - 33 | - | - - 198 - | - | - - 198 - |
| Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues | - 6 | - | - 6 | - 11 8 | - | - - 29 - | - | - - 147 - | - - - - XI | - - 18 - Agro- | - - - - forestr | - - 13 - y | | - 31 | - | - - 165 - | - | - 33 | - | - - 198 - | - | - - 198 - |
| Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues Production technologies | - 6 | - | - 6 | | - | - 29 | - | - - 147 - | - - - - XI | - - 18 - Agro- | - - - forestr | - - 13 - y | | - 31 | - | - - 165 - | - | - 33 | - | - - 198 - | - | - - 198 - |

| Integrated Farming Systems | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|--|-----------------|------------------|---------|-----------|------------------|---------------|------------------|-------------------|--------------------------|-----------|------------------|------------|-------------------|------------------------|---------------------------|-------------|--------------------|--------------|---------------------|-----------------------|---------------------------|---------|
| TOTAL | 36 | | 36 | 686 | | 192 | | 853 | | 28 | | 97 | | 150 | | 743 | | 214 | | 930 | | 957 |
| | | | | | | | | | (B) R | URA | L YOU | ТН | | | | | | | | | | |
| | 3.3.3. A | Achiev | rements | on T | rainin | ig <u>Rur</u> | al Yo | <u>uth</u> in | <u>On C</u> | ampu | <u>1s</u> incl | uding | g <u>Spon</u> | sored | On Ca | mpus | Train | ing Pro | gramm | es | | |
| | | | (*) | Sp. O | n mea | ns On | Cam | pus ti | aining | g prog | gramn | nes sp | onsor | ed by | extern | al ager | icies) | | | | | |
| | No. of | Course | s/ Prog | | | | | | | | | Pa | nticipa | ants | | | | | | | | |
| | | | | | | Ger | ıeral | | | | | S | C/ST | | | | | Тс | otal | | | |
| Thomatio anos | | | Total | N | Iale | Fei | nale | T | otal | M | lale | Fe | male | Т | otal | M | ale | Fei | nale | Т | otal | Grand |
| i nematic area | On (1) | Sp On* (2) | (1+2) | On (4) | Sp. On (5) | On (6) | Sp. On (7) | On (a= 4+6) | Sp. On (b= 5+7) | On (8) | Sp. On (9) | On (10) | Sp. On (11) | On (c= 8+10) | Sp. On (d= 9+11) | On (4+8) | Sp. On (5+9) | On (6+10) | Sp. On (7+11) | On (x= a +c) | Sp. On (y= b +d) | (x + y) |
| Mushroom Production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bee-keeping | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Seed production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of organic inputs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated Farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vermi-culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sericulture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Protected cultivation of vegetable crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Commercial fruit production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nursery Management of Horticulture crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Training and pruning of orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|--|---|---|-----|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of | | | | | | | | | | | | | | | | | | | | | | |
| quality animal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| products | | | | | | | | | | | | | | | | | | | | | | |
| Dairying | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sheep and goat | _ | _ | | | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | | | _ | _ | _ |
| rearing | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | _ | _ | _ | _ | _ |
| Quail farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Piggery | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rabbit farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Poultry | - | - | - | _ | - | - | _ | _ | _ | _ | _ | - | - | _ | _ | - | - | - | - | _ | _ | _ |
| production | | | | | | | | | | | | | | | | | | | | | | |
| Entrepreneurship | - | - | - | - | - | - | - | - | - | - | - | - | - | - | _ | - | - | - | - | - | - | - |
| Development | | | | | | | | | | | | | | | | | | | | | | |
| Para vets | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| workers | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Composite fish | _ | _ | | | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | | | _ | _ | _ |
| culture | _ | _ | _ | _ | - | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Freshwater | - | _ | _ | _ | - | _ | _ | _ | - | - | _ | - | _ | _ | _ | - | _ | _ | _ | - | _ | _ |
| prawn culture | | | | | | | | | | | | | | | | | | | | | | |
| Shrimp farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cold water | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tisheries | | | | | | | | | | | | | | | | | | | | | | |
| Fish harvest and | | | | | | | | | | | | | | | | | | | | | | |
| technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Erv and | | | | | | | | | | | | | | | | | | | | | | |
| fingerling | _ | _ | - I | _ | _ | _ | l _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| rearing | | | | | | | | | | | | | | | | | | | | | | |
| Small scale | | | | | | | | | | | | | | | | | | | | | | |
| processing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post Harvest | | | | | | | | | | | | | | | | | | | | | | |
| Technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tailoring and | | | | | | | | | | | | | | | | | | | | | | |
| Stitching | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rural Crafts | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | 3.3.4. Ac | chiever | nents o | n Trai | ning | of <u>Rur</u> a | al Y | outh i | n <u>Off</u> | Camj | <u>pus</u> ino | cludin | ıg <u>Spo</u> | nsored | l Off C | ampu | <u>s</u> Trai | ning Pr | ogram | mes | | |
|--|-----------|-----------|---------|--|----------------|-----------------|------------------------|--------|--------------|------|----------------|----------|---------------|--------|------------|------|---------------|---------|------------|-----|------------|-------|
| | 1 | | (*\$ | (*Sp. Off means Off Campus training programmes sponsored by external agencies) g. Participants General SC/ST Total | | | | | | | | | | | | | | | | | | |
| | No. of (| Courses/ | Prog. | | | - | | | | 1 | | P | articipa | nts | | | | | | | | - |
| | | | | M | 1. | Gener | ral | T | - 4 - 1 | • | r | <u> </u> | C/ST | T | 4-1 | м | .1. | To | otal | T | | - |
| | | | | Ma | le | Fema | | | otal | IV | | Fe | male | 10 | otal | M | | Fer | nale | 10 | otal | Crond |
| Thematic area | Off | Sp Off | Total | Off | Sp Of f* | Off | S P O ff * | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Total |
| Mushroom Production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bee-keeping | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated farming | 5 | - | 5 | 129 | - | 17 | - | 146 | - | 1 | - | - | - | 1 | - | 147 | - | 17 | - | 164 | - | 164 |
| Seed production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of organic inputs | 2 | - | 2 | 33 | - | - | - | 33 | - | 15 | - | 5 | - | 20 | - | 48 | - | 5 | - | 53 | - | 53 |
| Integrated Fish Farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Planting material production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vermi-culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sericulture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Protected cultivation of vegetable crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Commercial fruit production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Repair and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nursery Management of Horticulture crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Training and pruning of orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Value addition | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production of quality animal | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | 1 | | - | 1 | | | | | | | | | 1 | | | | | r | 1 | | |
|--|----------|-------|---------|---------|---------------|----------|------|------------|-------------|-----------------------|----------------|-----------------------|-------|-------|--------|---------------|--------|--------|--------|-------|----|-----|
| products | | | | | | | | | | | | | | | | | | | | | | |
| Dairying | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sheep and goat | | | | | | | | | | | | | | | | | | | | | | |
| rearing | - | - | - | - | - | - | _ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Quail farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Piggery | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rabbit farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Poultry production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ornamental fisheries | 1 | - | 1 | 12 | - | 13 | - | 25 | - | - | - | - | - | - | - | 12 | - | 13 | - | 25 | | 25 |
| Para vets | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Para extension workers | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Composite fish culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Freshwater | | | | | | | | | | | | | | | | | | | | | | |
| prawn culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Shrimp farming | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pearl culture | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cold water fisheries | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cold water Image: Co | | | | | | | | | | | | | | | | | | | | | | |
| Fry and fingerling rearing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Small scale processing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Post Harvest Technology | 2 | - | 2 | 43 | - | 15 | - | 58 | - | - | - | - | - | - | - | 43 | - | 15 | - | 58 | - | 58 |
| Tailoring and Stitching | 1 | - | 1 | 12 | - | 16 | - | 28 | - | - | - | - | - | - | - | 12 | - | 16 | - | 28 | - | 28 |
| Rural Crafts | | | | | | | | | - | - | - | - | - | - | - | | | | | | | |
| TOTAL | 11 | - | 11 | 229 | - | 61 | - | 290 | - | 16 | - | 5 | - | 21 | - | 262 | - | 66 | - | 328 | - | 328 |
| 3.3. | 5. Achie | vemen | ts on T | raining | g of <u>H</u> | Extensio | on P | (erson | C. Extended | ensior <u>On C</u> | n Pers ampu | onne <u>s</u> incl | uding | Spons | ored C | <u>)n Can</u> | npus 7 | rainin | g Prog | rammo | 28 | |
| | | | (*) | sp. On | mea | ns On (| Jam | pus tr | aining | g prog | gramn | nes sp | onsor | ea by | extern | al ager | icies) | | | | | |

| | No. of | Courses/ | prog | | | | | | | | | Pa | rticipa | nts | | | | | | | | |
|--|-----------|------------------|-------|-----------|------------------|-----------|------------------|-------------------|--------------------------|-----------|------------------|------------|-------------------|------------------------|---------------------------|-------------|--------------------|--------------|---------------------|-----------------------|---------------------------|------------------|
| | | | | | | Ger | neral | | | | | S | C/ST | | | | | To | tal | | | |
| | | | Total | N | Iale | Fe | male | To | otal | M | lale | Fe | male | Te | otal | M | ale | Fer | nale | T | otal | Grand |
| Thematic area | On (1) | Sp On* (2) | (1+2) | On (4) | Sp. On (5) | On (6) | Sp. On (7) | On (a= 4+6) | Sp. On (b= 5+7) | On (8) | Sp. On (9) | On (10) | Sp. On (11) | On (c= 8+10) | Sp. On (d= 9+11) | On (4+8) | Sp. On (5+9) | On (6+10) | Sp. On (7+11) | On (x= a +c) | Sp. On (y= b +d) | Total (x + y) |
| Productivity enhancement in field crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated Nutrient management | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Protected cultivation technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Group Dynamics and farmers organization | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Information networking among farmers | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Capacity building for ICT application | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Care and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WTO and IPR issues | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management in farm animals | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Livestock feed and fodder production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Household food security | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|--|---------|---------|---------|---------------|----------------|-------|------------|-------|------------|-------|------------|---------------|------------|-------|------------|--------|------------|---------|------------|------|------------|----------------|
| Women and Child care | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Low cost and nutrient efficient diet designing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | _ | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3.3.6 | . Achie | vement | ts on T | raini | ng of <u>F</u> | Exten | sion P | erson | nel in (| Off C | ampu | <u>s</u> incl | uding | Spons | ored (| Off Ca | mpus 🛛 | Frainin | g Prog | ramm | es | |
| | | | (*\$ | 5 p. O | ff mea | ns Of | f Cam | pus t | rainin | g pro | gramr | nes sj | ponsor | ed by | extern | al age | ncies) | | | | | |
| Thematic area | No. of | Courses | / prog. | | | | | | | | | Р | articipa | ints | | | | | | | | Grand Total |
| | | | | | | Ge | neral | | | | | S | C/ST | | | | | Т | otal | | | |
| | Off | Sp | Total | N | 1ale | Fe | male | T | otal | M | lale | Fe | male | Т | otal | M | ale | Fe | male | T | otal | |
| | | Off* | Total | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | Off | Sp Off* | |
| Productivity enhancement in field crops | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Integrated Pest Management | 2 | - | 2 | 10 | - | 39 | - | 49 | - | - | - | 2 | - | 2 | - | 10 | - | 41 | - | 51 | - | 51 |
| Integrated Nutrient management | 2 | - | 2 | 12 | - | 43 | - | 55 | - | - | - | - | - | - | - | 12 | - | 43 | - | 55 | - | 55 |
| Rejuvenation of old orchards | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Protected cultivation technology | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Formation and Management of SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Group Dynamics and farmers organization | 2 | - | 2 | - | - | 48 | - | 48 | - | - | - | - | - | - | - | - | - | 48 | - | 48 | - | 48 |
| Information networking among farmers | 2 | - | 2 | 1 | - | 49 | - | 50 | - | - | - | - | - | - | - | 1 | - | 49 | - | 50 | - | 50 |

| 72 | |
|----|--|
| | |

| Capacity building for ICT application | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|--|---|---|---|----|---|---------|---|-----|---|---|---|---|---|---|---|----|---|-----|---|-----|---|-----|
| Care and maintenance of farm machinery and implements | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WTO and IPR issues | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Management in farm animals | 1 | - | 1 | - | - | 25 | - | 25 | - | - | - | - | - | - | - | - | - | 25 | - | 25 | - | 25 |
| Livestock feed and fodder production | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Household food security | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Women and Child care | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Low cost and nutrient efficient diet designing | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Production and use of organic inputs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Gender mainstreaming through SHGs | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TOTAL | 9 | - | 9 | 23 | - | 20 4 | - | 227 | - | - | - | 2 | - | 2 | - | 23 | - | 206 | - | 229 | - | 229 |

Note: Please furnish the details of above training programmes as <u>Annexure</u> in the proforma given below

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

| Discipline | Area of traini | Title of the training programme | Date (From – to) | Duration in days | Venue | Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel) | C par | General ticipan | ts | | SC/ST | | Gra | and Tot | tal |
|------------|----------------------|---------------------------------------|------------------------|---------------------|-------|--|----------|--------------------|----|---|-------|---|-----|---------|-----|
| | ng | | , | | | , | M | F | Т | М | F | Т | М | F | Т |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

| Discipline | Area of training | Title of the training programme | Date (From – to) | Duration in days | Venue | Please specify | G par | lener: ticipa | al ants | | SC/ST | Г | | Gran Tota | d I |
|------------|--|--|---------------------------------|---------------------|----------------|--|------------|------------------|------------|----|-------|----|----|--------------|--------|
| | | | | | | Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel) | M | F | Τ | Μ | F | Τ | Μ | F | Τ |
| Soil Sc. | Production and use of organic inputs | Organic Farming | 27-06-2019 | 1 | Asharikandi | RY | 6 | 0 | 6 | 15 | 5 | 20 | 21 | 5 | 26 |
| Soil Sc. | Production and use of organic inputs | Use of biofertilizers in agriculture with special reference to rice | 08-07-2019 to 09-07- 2019 | 2 | Ghunghunikhata | PF | 25 | 0 | | 0 | 0 | 0 | 25 | 0 | 25 |
| Soil Sc. | Soil Health Management | Green manuring and its importance in maintenance of Soil Health | 10-07-2019 to 11-07- 2019 | 2 | Rabantari | PF | 25 | 0 | | 0 | 0 | 0 | 25 | 0 | 25 |
| Soil Sc. | Nutrient management | Integrated nutrient management | 12-07-2019 | 1 | Futkibari | PF | 25 | 0 | | 0 | 0 | 0 | 25 | 0 | 25 |
| Soil Sc. | Soil fertility management | Management practices for sustained soil fertility | 16-08-2019 | 1 | Nayapara | EF | 0 | 30 | | 0 | 0 | 0 | 0 | 30 | 30 |
| Soil Sc. | Production and use of organic inputs | Production of compost and low cost vermicompost for income generation | 30-08-2019 to 31-08- 2019 | 2 | Khudnamari | RY | 27 | 0 | | 0 | 0 | 0 | 27 | 0 | 27 |
| Soil Sc. | Production and use of organic inputs | Use of biofertilizers in agriculture with special reference to rice | 09-09-2019 to 10-09- 2019 | 2 | Hakama | PF | 25 | 0 | | 0 | 0 | 0 | 25 | 0 | 25 |

| Soil Sc. | Soil & Water management | Need and ways of conserving soil and water | 31-10-2019 to 02-11- 2019 | 3 | Gaurangtari | PF | 20 | 5 | | 0 | 0 | 0 | 20 | 5 | 25 |
|---------------------|--|---|---------------------------------|---|--------------------------|----|----|----|----|---|----|----|----|----|----|
| Soil Sc. | Production and use of organic inputs | Production and use of organic inputs | 11-11-2019 to 14-11- 2019 | 3 | Khoilsatari | PF | 25 | 1 | | 0 | 0 | 0 | 25 | 1 | 26 |
| Soil Sc. | Integrated Nutrient Management | Principles of manure and fertilizer application for higher efficiency | 20-12-2019 | 1 | Sonaluguri | EF | 12 | 13 | | 0 | 0 | 0 | 12 | 13 | 25 |
| Soil Sc. | nutrient management | Integrated nutrient management | 21-12-2019 | 1 | Gobardhanpara | PF | 14 | 11 | | 0 | 0 | 0 | 14 | 11 | 25 |
| Soil Sc. | Soil Health Management | Soil testing and its importance in agriculture | 09-01-2020 to 10-01- 2020 | 2 | Agomoni | RY | 25 | 0 | | 0 | 0 | 0 | 25 | 0 | 25 |
| Plant Protection | Integrated Pest Management | Integrated management of important pests & diseases of winter rice with special reference to bio-control | 14-06-2019 | 1 | Ghunghunikhata | PF | 22 | 9 | 31 | 0 | 0 | 0 | 22 | 9 | 31 |
| Plant Protection | Integrated Pest Management | Proper handling and safe use of pesticides and fungicides | 23-08-2019 | 1 | Bamunpara Pt-IV | PF | 24 | 1 | 25 | 0 | 0 | 0 | 24 | 1 | 25 |
| Plant Protection | Bio-control of pests and diseases | Bio intensive integrated pest and disease management in cucurbits | 28-08-2019 to 29-08- 2019 | 2 | Bhalukmari, Ravantari | PF | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| Plant Protection | Integrated Pest Management | On-farm low cost mass production techniques of common bio pesticides | 30-08-2019 to 31-08- 2019 | 2 | Medhipara | RY | 24 | 0 | 24 | 1 | 0 | 1 | 25 | 0 | 25 |
| Plant Protection | Bio pesticides | Integrated management of important pest and diseases of winter rice with special reference | 04-09-2019 to 05-09- 2019 | 2 | Bakuabhangi | PF | 0 | 0 | 0 | 9 | 18 | 27 | 9 | 18 | 27 |

| | | to bio control | | | | | | | | | | | | | |
|---------------------|-------------------------------|---|---------------------------------|---|-------------|----|----|----|----|---|---|---|----|----|----|
| Plant Protection | Integrated Pest Management | Integrated management of important pest & disease of boro rice | 31-10-2019 | 1 | Gaurangtari | PF | 20 | 5 | 25 | 0 | 0 | 0 | 20 | 5 | 25 |
| Plant Protection | Integrated Pest Management | Proper handling & safe use of pesticides and fungicides | 21-11-2019 | 1 | Chapar | EF | 0 | 24 | 24 | 0 | 2 | 2 | 0 | 26 | 26 |
| Plant Protection | Integrated Pest Management | Organic winter vegetables production by using bio intensive IPDM | 19-12-2019 to 20-12- 2019 | 2 | Dhanpur | RY | 10 | 15 | 25 | 0 | 0 | 0 | 10 | 15 | 25 |
| Plant Protection | Integrated Pest Management | Pest and disease management in nursery of winter vegetables crops | 23-12-2019 | 1 | Nayapara | PF | 7 | 18 | 25 | 0 | 0 | 0 | 7 | 18 | 25 |
| Plant Protection | Integrated Pest Management | Proper handling & safe use of pesticides and fungicides | 27-12-2019 | 1 | Khudnamari | PF | 21 | 5 | 26 | 0 | 0 | 0 | 21 | 5 | 26 |
| Plant Protection | Integrated Pest Management | Integrated diseases in Jute | 21-03-2020 | 1 | Koimari | PF | 21 | 5 | 26 | 0 | 0 | 0 | 21 | 5 | 26 |
| Plant Protection | Integrated Pest Management | Recent advances in management of insect pest & diseases in winter vegetables | 20-03-2020 | 1 | Nayahat | EF | 10 | 15 | 25 | 0 | 0 | 0 | 10 | 15 | 25 |
| Animal Science | Poultry Management | Scientific rearing of duck | 13-08-2019 | 1 | Udmari | PF | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 14 | 14 |
| Animal Science | Poultry Management | Scientific rearing of duck | 17-08-2019 | 1 | Raniganj | EF | 0 | 25 | 25 | 0 | 0 | 0 | 0 | 25 | 25 |

| Animal Science | Disease management | Disease of livestock and poultry, their prevention and control measures | 21.02.2020 to 22.02.2020 | 2 | Nayeralga | PF | 24 | 0 | 24 | 1 | 0 | 1 | 25 | 0 | 25 |
|--------------------|---|--|---------------------------------|---|----------------------|----|----|----|----|---|---|---|----|----|----|
| Animal Science | Sheep & Goat Production | Scientific rearing of sheep and goat for rural employment | 24.02.2020 to 25.02.2020 | 2 | Nayeralga | PF | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| Animal Science | Dairy Management | Scientific rearing of dairy cattle and buffalo for increased milk production | 27.02.2020 to 29.02.2020 | 3 | Mahamaya | PF | 0 | 26 | 26 | 0 | 0 | 0 | 0 | 26 | 26 |
| Animal Science | Poultry Management | Scientific rearing of improved backyard poultry for egg and meat production at village level | 02.03.2020 to 04.03.2020 | 3 | Mahamaya | PF | 0 | 26 | 26 | 0 | 0 | 0 | 0 | 26 | 26 |
| Fishery Science | Integrated Fish Farming | Management of fish pond in flood affected areas | 05-08-2019 to 06-08- 2019 | 2 | Santoshpur | PF | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| Fishery Science | Carp breeding and hatchery management | Feeding and water quality management in fish pond | 08-08-2019 to 09-08- 2019 | 2 | Charuabakra | PF | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| Fishery Science | Integrated Fish Farming | Integrated duck cum fish farming | 23-08-2019 to 24-08- 2019 | 2 | Bamunpara Pt-IV | PF | 24 | 1 | 25 | 0 | 0 | 0 | 24 | 1 | 25 |
| Fishery Science | Integrated Fish Farming | Integrated paddy cum fish farming | 27-08-2019 to 28-08- 2019 | 2 | Dhanpur | PF | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| Fishery Science | Carp fry and fingerling rearing | Nursery pond management and fish seed rearing | 29-08-2019 to 30-08- 2019 | 2 | Charuabakra Bazar | PF | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| Fishery Science | Value addition | Preparation of fish pickle | 02-09-2019 to 03-09- 2019 | 2 | Nayapara | PF | 1 | 24 | 25 | 0 | 0 | 0 | 1 | 24 | 25 |

| Fishery Science | Carp breeding and hatchery management | Cultivation of air breathing fish | 16-10-2019 to 17-10- 2019 | 2 | Pasuarkhal, Pt-I | PF | 24 | 1 | 25 | 0 | 0 | 0 | 24 | 1 | 25 |
|--------------------|---|---|---------------------------------|---|-----------------------|----|----|----|----|----|----|----|----|----|----|
| Fishery Science | Integrated Fish Farming | Management of fish pond in flood affected area | 24-10-2019 to 25-10- 2019 | 2 | Koimari, Pt-I | PF | 25 | 0 | 25 | 0 | 0 | 0 | 25 | 0 | 25 |
| Fishery Science | Integrated Fish Farming | Fish disease & health management in fish ponds | 05-11-2019 to 06-11- 2019 | 2 | Charuabakra | PF | 21 | 4 | 25 | 0 | 0 | 0 | 21 | 4 | 25 |
| Fishery Science | Composite fish culture | Composite Fish farming | 19-11-2019 to 20-11- 2019 | 2 | Khalsatari | PF | 25 | 2 | 27 | 0 | 0 | 0 | 25 | 2 | 27 |
| Fishery Science | Aquaculture (Aquarium Preparation) | Preparation of Aquarium for rearing local ornamental fishes | 11-12-2019 to 12-12- 2019 | 2 | Halakura | RY | 12 | 13 | 25 | 0 | 0 | 0 | 12 | 13 | 25 |
| Agril Econ & FM | Entrepreneurial development of farmers/youths | Importance of Farm Planning and management for higher income generation | 25/06/2019 | 1 | Ghunghunikhata | PF | 24 | 2 | 26 | 0 | 0 | 0 | 24 | 2 | 26 |
| Agril Econ & FM | Entrepreneurial development of farmers/youths | Crop Insurance and its importance | 26/06/2019 | 1 | Rabantari | PF | 16 | 6 | 22 | 3 | 0 | 3 | 19 | 6 | 25 |
| Agril Econ & FM | Entrepreneurial development of farmers/youths | Crop insurance and its importance | 27/06/2019 | 1 | Asarikandi | PF | 7 | 0 | 7 | 15 | 13 | 28 | 22 | 13 | 35 |
| Agril Econ & FM | Information networking among farmers | Economic importance of the use of agro chemicals in crop production | 11/07/2019 | 1 | Chapor, Bhakatpara | RY | 26 | 0 | 26 | 0 | 0 | 0 | 26 | 0 | 26 |
| Agril Econ & FM | Farm Management | Training on Farm Management | 09/08/2019 | 1 | Ghunghunikhata | PF | 22 | 9 | 31 | 0 | 0 | 0 | 22 | 9 | 31 |

| Agril Econ & FM | Information networking among farmers | Agricultural Market Intelligence and Future Commodity market | 17/08/2019 | 1 | Ranjiganj | EF | 1 | 24 | 25 | 0 | 0 | 0 | 1 | 24 | 25 |
|---------------------|---|--|-----------------------|---|---------------------------|----|----|----|----|---|---|---|----|----|----|
| Agril Econ & FM | Grading and standardization | Grading and standardization of Agricultural products | 22/08/2019 | 1 | Alamganj | RY | 17 | 13 | 30 | 0 | 0 | 0 | 17 | 13 | 30 |
| Agril Econ & FM | Grading and standardization | Grading and standardization of Agricultural products | 04/09/2019 | 1 | Charuabakra | RY | 26 | 2 | 28 | 0 | 0 | 0 | 26 | 2 | 28 |
| Agril Econ & FM | Entrepreneurial development of farmers/youths | Importance of farm planning and management for higher income generation | 05-09-2019 | 1 | Jamduar | PF | 17 | 12 | 29 | 0 | 0 | 0 | 17 | 12 | 29 |
| Agril Econ & FM | Information networking among farmers | Economic importance of the judicious use of agro chemicals & scope of use of organic nutrition / Plant Protection measures in crop production | 15-11-2019 | 1 | Nayeralga | RY | 44 | 2 | 46 | 0 | 0 | 0 | 44 | 2 | 46 |
| Agril Econ & FM | Group formation among farmers | Organizing farmers through FIG, FPO, Farmers club | 20-11-2019 | 1 | Raniganj | EF | 0 | 25 | 25 | 0 | 0 | 0 | 0 | 25 | 25 |
| Agril Econ & FM | Group formation among farmers | Organizing farmers through FIG, FPO, Farmers club | 21-11-2019 | 1 | Chapar, Salkocha block | EF | 0 | 23 | 23 | 0 | 2 | 2 | 0 | 25 | 25 |
| Agril Econ & FM | Information networking among farmers | Agricultural Market Intelligence and Future Commodity market | 21-11-2019 | 2 | Chapar, Salkocha block | EF | 0 | 25 | 25 | 0 | 0 | 0 | 0 | 25 | 25 |
| Agril. Extension | Entrepreneurial development of farmers/youths | Marketing and value addition of Agricultural produce | 14-11-2019 (1 day) | 1 | Satrasal | PF | 32 | 0 | 32 | 0 | 0 | 0 | 32 | 0 | 32 |

| Agril. Extension | Entrepreneurial development of farmers/vouths | Employment opportunity through agriculture and allied | 19-12-2019 to 21-12- 2019 | 3 | Dhanpur | RY | 12 | 16 | 28 | 0 | 0 | 0 | 12 | 16 | 28 |
|---------------------|---|---|---------------------------------|---|---------|----|----|----|----|---|---|---|----|----|----|
| | | sector | | | | | | | | | | | | | |

(D) Vocational training programmes for Rural Youth

| Crop / Enterprise | Date (From – | Durati on | Area of training | Training title* | G | ener | No | . of I | °art C/S | icip T | ants | Tota | ıl | Impact o empl | of training loyment a | ; in tern after tra | ns of Self- ining | Whether Sponsore d by external funding agencies (Please Specify with amount of fund in Rs.) |
|----------------------|-------------------------------------|--------------|---|--|--------|--------|--------|--------|-------------|-----------|--------|------|--------|--|--------------------------|---|---|--|
| | 10) | (uays | | | М | F | T | M | F | T | M | F | Т | Type of enterpri se venture d into | Numb er of units | Num ber of pers ons empl oyed | Avg. Annual income in Rs. generate d through the enterpri se | |
| Vermi compost | 24-09- 2019 to 28-09- 2019 | 5 days | Value addition | Self-employment generation through production of low cost vermicompost | 2 5 | 0 | 2 5 | 0 | 0 | 0 | 2 5 | 0 | 2 5 | Low cost vermi compost | 4 women SHG | - | - | No |
| Jute | 03-12-19 to 12-12- 2019 | 10 days | Entrepre neurship develop ment | Entrepreneurship development of rural women through product making from Jute | 0 | 3 0 | 3 0 | 0 | 0 | 0 | 3 0 | 0 | 3 0 | Product making from Jute | 5 women SHG | - | - | No |

| Fishery | 27-12- 2019 to 02-01- 2020 | 7 days | Entrepre neurship develop ment | Entrepreneurship Development through value added fish products | 0 | 2 4 | 2 4 | 0 | 2 | 2 | 2 | 2 6 | 26 | Product making from Fish | 4 women SHG | - | - | No |
|-----------------------|---|------------|---|---|--------|--------|--------|---|---|---|--------|--------|--------|---|-------------------|---|---|----|
| Water Hyacinth | 27-12- 2019 to 05-01- 2020 | 10 days | Entrepre neurship develop ment | Entrepreneurship development of rural women through product making from Water Hyacinth | 0 | 2 6 | 2 6 | 0 | 0 | 0 | 0 | 2 6 | 2 6 | Product making from Water Hyacinth | 5 women SHG | - | - | No |
| Bee keeping | 20-01- 2020 to 26-01- 2020 | 7 days | Entrepre neurship develop ment | Vocational training on Scientific bee keeping as a venture of income generation. | 2 0 | 0 | 2 0 | 6 | 0 | 6 | 2 6 | 0 | 2 6 | Bee keeping | Rural Youth | - | - | No |
| Mushroom | 27-01- 2020 to 31-01- 2020 | 5 days | Entrepre neurship develop ment | Vocational training on Commercial production & value addition of oyster mushroom | 1 8 | 7 | 2 5 | 0 | 0 | 0 | 1 8 | 7 | 2 5 | Mushroo m Producti on | 5 women SHG | - | - | No |
| Vermi compost | 29-01- 2020 to 02-02- 2020 (5 day) | 5 days | Entrepre neurship develop ment | Production and use of organic inputs | 2 5 | 0 | 2 5 | 0 | 0 | 0 | 2 5 | 0 | 2 5 | Low cost vermi compost | 4 SHG group | - | - | No |
| Fruits and vegetables | 13-02- 2020 to 19-02- 2020 | 7 days | Entrepre neurship develop ment | Entrepreneurship development of rural women through processed food product making from locally available fruits and vegetables | 0 | 2 0 | 2 0 | 0 | 5 | 0 | 0 | 2 5 | 2 5 | Product making from locally available fruits and vegetabl es | 5 women SHG | - | - | No |

*training title should specify the major technology /skill transferred

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| | | | | | | | | | Ν | lo. of | Parti | cipan | ts | | | Sno | Amou | | |
|----------------------------|---|-----------------------|---------------------|----------------|---------------------|---------------------|----|------------------|----|---------|-------|-------|-------|----|----|-------|-------|---------------------------|--|
| On/ Off/ Vocationa l | Beneficiar y group (F/ FW/ RY/ EP) | Date (From- To) | Duratio n (days) | Disciplin e | Area of training | Title | (| General M F T | | General | | | SC/ST | [| | Total | | nsor ing Age ncy | nt of fund receiv ed (Rs.) |
| | | | | | | | Μ | F | T | Μ | F | Т | Μ | F | Т | | | | |
| Off | PF & RY | 24-02- | 25 days | Plant | Mushroo | Mushroom growers | 5 | 15 | 20 | 0 | 0 | 0 | 5 | 15 | 20 | AS | 19600 | | |
| | | 2020 to | | Protectio | m | | | | | | | | | | | CI | 0.00 | | |
| | | 19-03- | | n | | | | | | | | | | | | | | | |
| | | 2020 | | | | | | | | | | | | | | | | | |
| Off | PF & RY | 24-02- | 25 days | Fishery | Fishery | Hatchery Production | 20 | 0 | 20 | 0 | 0 | 0 | 20 | 0 | 20 | AS | 21560 | | |
| | | 2020 to | | Sc | | Workers | | | | | | | | | | CI | 0.00 | | |
| | | 19-03- | | | | | | | | | | | | | | | | | |
| | | 2020 | | | | | | | | | | | | | | | | | |

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

Training programme under PKVY:

| SI. | Date | Торіс | Category | Place | ST /SC | | Other | | Tot | al | Gran |
|-----|------------|---|----------|-------------|--------|---|-------|----|-----|----|-------|
| No. | | | | | | | | | | | d |
| | | | | | | | | | | | Total |
| | | | | | М | F | М | F | М | F | |
| 1 | 04-02-2020 | Plant protection measures in oilseeds (Toria) | PF | Gaurangtari | 1 | 0 | 10 | 17 | 11 | 17 | 28 |
| 2 | 08-02-2020 | Plant protection measures in oilseeds (Toria) | PF | Rabantari | 0 | 0 | 30 | 3 | 30 | 3 | 33 |

Training programme under CFLD:

| Sl. No. | Date | Торіс | Category | Place | ST / | SC | Ot | her | Tot | al | Gran d |
|---------|------------|---|----------|-------------|------|----|----|-----|-----|----|-----------|
| | | | | | | | | | | | Total |
| | | | | | М | F | М | F | М | F | |
| 1 | 18-09-2019 | Training on improved cultivation of pulses | PF | Agomoni | 1 | 0 | 24 | 1 | 25 | 0 | 25 |
| 2 | 25-09-2019 | Plant protection measures in pulses | PF | Koimari | 0 | 0 | 17 | 8 | 17 | 8 | 25 |
| 3 | 04-02-2020 | Plant protection measures in oilseeds (Toria) | PF | Gaurangtari | 6 | 2 | 13 | 25 | 19 | 27 | 46 |

Training programme under APART Project:

| Sl. No. | Date | Торіс | Category | Place | ST / | SC | Ot | her | Tot | al | Grand |
|---------|------------|--------------------------------|----------|---------------|------|----|----|-----|-----|----|-------|
| | | | | | | | | | | | Total |
| | | | | | | | | | | | |
| | | | | | М | F | М | F | М | F | |
| 1 | 21-12-2019 | Training on Blackgram | PF | Gobardhanpara | 0 | 0 | 21 | 9 | 21 | 9 | 30 |
| 2 | 21-12-2019 | Training on Blackgram | PF | Gobardhanpara | 0 | 0 | 11 | 17 | 11 | 17 | 28 |
| 3 | 28-12-2019 | Training on Blackgram | PF | Kursakati | 0 | 0 | 14 | 16 | 14 | 16 | 30 |
| 4 | 09-01-2020 | Training on Lentil | PF | Agomoni | 3 | 0 | 45 | 2 | 48 | 2 | 50 |
| 5 | 09-01-2020 | Training on Maize | PF | Agomoni | 10 | 4 | 44 | 1 | 54 | 5 | 59 |
| 6 | 11-01-2020 | Training on Maize | PF | Pukhuripara | 3 | 4 | 20 | 3 | 23 | 7 | 30 |
| 7 | 11-01-2020 | Training on Rapeseed & Mustard | PF | Pukhuripara | 3 | 2 | 19 | 6 | 22 | 8 | 30 |
| 8 | 29-01-2020 | Training on Lentil | PF | Koimari | 0 | 0 | 19 | 11 | 19 | 11 | 30 |

| 9 | 30-01-2020 | Training on Maize | PF | Koimari | 0 | 0 | 23 | 15 | 23 | 15 | 38 |
|---|------------|-------------------|----|---------|---|---|----|----|----|----|----|
|---|------------|-------------------|----|---------|---|---|----|----|----|----|----|

3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc) during 2019-20

| Participants | | | | | | | | | | | | | | | |
|--------------|------------------------------------|---|----------------------|---|----------------|-----|----|--------------|----|---|-----------------------------|---------|-----|------------------|-----|
| Sl. No. | Extension Activity | Торіс | No. of activities | | General (1) | I | | SC/ST (2) | 1 | F | Extensio Official (3) | on S | G | rand To (1+2) | tal |
| | | | | Μ | F | Т | Μ | F | Т | Μ | F | Т | Μ | F | Т |
| 1. | Advisory services | - | 100 | 98 | 2 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 2 | 100 |
| 2. | Diagnostic visit | - | 47 | 45 | 0 | 45 | 2 | 0 | 2 | 0 | 0 | 0 | 45 | 2 | 47 |
| | | Field Days | 11 | 323 | 12 | 335 | 5 | 0 | 5 | 0 | 0 | 0 | 328 | 12 | 340 |
| | | Field Days under | 1 | 13 | 25 | 38 | 6 | 2 | 8 | 0 | 0 | 0 | 19 | 27 | 46 |
| | | PKVY (4-2-2020) | | | | | | | | | | | | | |
| | | Field Days under | 1 | 10 | 9 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 9 | 19 |
| 3. | Field day | CFLD (27-1-2020) | | | | | | | | | | | | | |
| | | Field day Toria under | 1 | 41 | 5 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 5 | 46 |
| | | PKVY (8-2-2020) | | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | | |
| | | Field day under | 13 | 344 | 161 | 505 | 0 | 0 | 0 | 0 | 0 | 0 | 344 | 161 | 505 |
| 4. | | APART | | | | | | | | | | | | | |
| 4. | Farmers visit to KVK | - | - | 296 | 46 | 342 | 55 | 12 | 67 | 0 | 0 | 0 | 351 | 58 | 409 |
| 5. | Scientists visit to farmers fields | - | - | 101 | 5 | 106 | 9 | 0 | 9 | 0 | 0 | 0 | 110 | 5 | 115 |
| 6. | Plant/ Animal Health camp | Vaccination programme for FMD & Brucellosis under NACDP & National AI programme | 1 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 |
| 7. | Farm science club | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. | Ex-trainee Sammelan | - | 1 | 30 | 16 | 46 | - | - | - | - | - | - | - | - | 46 |
| 9. | Farmers seminar/ workshop | PCRA | 1 | 34 | 0 | 34 | 1 | 0 | 1 | 0 | 0 | 0 | 35 | 0 | 35 |
| 10. | Method | | 4 | 30 | 4 | 34 | 31 | 0 | 31 | 0 | 0 | 0 | 61 | 4 | 65 |

| [| demonstration | | | | | | | | | | | | | | |
|----------|----------------|-------------------------------|---|---|-----|-------|-----|----|-----|---|---|---|-----|-----|-----|
| <u> </u> | | Celebration of AAU | | 25 | 10 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 10 | 35 |
| | | Foundation Day. 2019 | 1 | 23 | | | | | | | | | 23 | | |
| | | World Environment | 1 | 16 | 14 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 14 | 20 |
| | | Day Celebration, 2019 | 1 | - | | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 14 | 30 |
| | | International Yoga | 1 | 74 | 55 | 129 | 8 | 3 | 11 | 0 | 0 | 0 | 82 | 58 | 140 |
| | | Day' 2019 | 1 | | | 127 | Ŭ | | | | 0 | | | | 110 |
| | | KVK, Foundation Day , 2019 | 1 | 99 | 7 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 99 | 7 | 106 |
| | | Webcasting of live | 1 | 74 | 27 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 27 | 101 |
| | | inauguration prog on | | | | | | | | | | | | | |
| | | PM-KISAN , PM- | | | | | | | | | | | | | |
| | | KMY & launching of | | | | | | | | | | | | | |
| | | NADCP for FMD & | | | | | | | | | | | | | |
| | | Brucellosis & National | | | | | | | | | | | | | |
| | | AI programme | | | | | | | | | | | | | |
| | | | | | | 1.0.5 | | | | | | | | | |
| | | Large scale tree | 1 | 114 | 84 | 198 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | 84 | 198 |
| | | plantation campaign | | 114 84 85 88 166 59 | | | | | | | | | | | |
| 11. | important days | 150th Birth | 1 | 85 | 88 | 173 | 15 | 20 | 35 | 0 | 0 | 0 | 100 | 108 | 208 |
| | important days | Anniversary of | 1 | 05 | 00 | 1/5 | 15 | 20 | | | | | 100 | 100 | 200 |
| | | Mahatma Gandhi | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | Swachhta He Seva | 7 | 166 | 59 | 225 | 8 | 5 | 13 | 0 | 0 | 0 | 174 | 64 | 238 |
| | | | | | | | | | | | | | | | |
| | | World Soil Health Day, | 1 | 100 | 55 | 155 | 100 | 55 | 155 | 0 | 0 | 0 | 200 | 110 | 310 |
| | | 2019 | | | | | | | | | | | | | |
| | | W 11E 1D 2010 | 1 | 100 | 70 | 100 | 20 | | 20 | | | | 120 | 06 | 214 |
| | | World Food Day, 2019 | 1 | 108 | /8 | 186 | 20 | 8 | 28 | 0 | 0 | 0 | 128 | 86 | 214 |
| | | Celebration of Kisan | 1 | 15 | 20 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 20 | 35 |
| | | Divas, 2019 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | Kısan Mela under | 1 | 138 | 107 | 245 | 12 | 4 | 16 | 0 | 0 | 0 | 150 | 111 | 261 |
| | | NICRA | | | | | | | | | | | | | |
| | | Web casting on the | 1 | 44 | 164 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 164 | 208 |
| | | occasion of Global | - | | 10. | | Ŭ | ľ | - | - | - | - | | 10. | |
| | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | Potato Conclave | | | | | | | | | | | | | |
|----|--------------------------------------|---|----|-----|-----|-----|----|----|----|---|---|---|-----|-----|-----|
| | | International Women Day | 1 | 90 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 0 | 90 |
| | | Kisan Mela under NEH Component | | 256 | 64 | 320 | 0 | 0 | 0 | 0 | 0 | 0 | 256 | 64 | 320 |
| 12 | Exposure visits | - | 2 | 44 | 21 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 21 | 65 |
| 13 | Exhibition | - | 3 | 406 | 175 | 581 | 0 | 0 | 0 | 0 | 0 | 0 | 406 | 175 | 581 |
| 14 | Animal Health Camp | Vaccination programme for FMD & Brucellosis under NACDP & National AI programme | 1 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 |
| 15 | Electronic media (CD/DVD) | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16 | Extension literature | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 17 | Newspaper coverage | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18 | Popular articles | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | Radio talk | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | TV talk | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | Training manual | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | Soil health camp | | 3 | 75 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 0 | 75 |
| | | 14th Parthenium awareness week (16th to 22nd Aug 2019) | 1 | 122 | 86 | 208 | 0 | 0 | 0 | 0 | 0 | 0 | 122 | 86 | 208 |
| 23 | | Awareness programme on Jal Shakti Abhiyan | 1 | 25 | 2 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 2 | 27 |
| | Awareness camp | Fertilizer Awareness programme | 1 | 146 | 24 | 170 | 25 | 10 | 35 | 0 | 0 | 0 | 171 | 34 | 205 |
| | | Awareness Programme under DAMU | 3 | 242 | 86 | 328 | 0 | 0 | 0 | 0 | 0 | 0 | 242 | 86 | 328 |
| 26 | Lecture delivered as resource person | | 12 | 310 | 0 | 310 | 0 | 0 | 0 | 0 | 0 | 0 | 310 | 0 | 310 |

| 6 |
|---|
| • |
| |

| 27 | PRA | - | 2 | 32 | 18 | 50 | - | - | - | - | - | - | 32 | 18 | 50 |
|----|------------------------------|---|---|------|------|------|-----|-----|-----|---|---|---|------|------|------|
| 30 | Farmer-Scientist interaction | | 1 | 136 | 105 | 241 | 0 | 0 | 0 | 0 | 0 | 0 | 136 | 105 | 241 |
| 31 | Soil test campaign | - | 4 | 34 | 42 | 76 | 16 | 8 | 24 | 0 | 0 | 0 | 50 | 50 | 100 |
| 32 | SHG meet | - | 1 | - | 50 | 50 | - | - | - | - | - | - | 0 | 50 | 50 |
| | Grand Total | | | 4355 | 1726 | 6083 | 313 | 127 | 440 | 0 | 0 | 0 | 4636 | 1839 | 6521 |

3.5 Production and supply of Technological products during 2019-20:

A. SEED MATERIALS

| Major group/class | Сгор | Variety | Quantity (qt) | Value (Rs.) | Number | of recipient/ b | eneficiaries |
|----------------------------------|-------------|-------------|---------------|-------------|---------|-----------------|--------------|
| | | | | | General | SC/ST | Total |
| CEREALS | Paddy | Ranjit Sub1 | 86.0 | 129000.00 | 5 | 0 | 5 |
| | | Gitesh | 77.2 | 115800.00 | | 0 | |
| | | Onesii | 11.2 | 115000.00 | 5 | | 5 |
| | | Naveen | 73.4 | 110100.00 | 5 | | 5 |
| OILSEEDS | Toria | TS-38 | 173 | 60550.00 | 7 | | 7 |
| | Toria | TS-67 | 16.8 | 58800.00 | 7 | | 7 |
| OILSEEDS (Under CFLD Programme) | Toria | TS-38 | 1112.8 | 3500000.00 | 626 | 0 | 626 |
| PULSES(Under CFLD Programme) | Blackgram | Beki | 50.0 | 35000.00 | 60 | 3 | 63 |
| | Lentil | KLS-218 | 54.45 | 326700.00 | 50 | 9 | 59 |
| VEGETABLES (Seedlings) | Tomato | Arka Abed | 10000 | 10000.00 | 5 | 0 | 5 |
| | Brinjal | PH-5 | 2500 | 2500.00 | 3 | 0 | 3 |
| | Cauliflower | Moti | 6500 | 6500.00 | 3 | 0 | 3 |
| | Chilli | G-4 | 6500 | 6500.00 | 2 | 0 | 2 |
| FLOWER CROPS | - | - | - | - | - | - | - |
| OTHERS (Specify) | - | - | - | - | - | - | - |

A1. SUMMARY of Production and supply of Seed Materials during 2019-20:

| Sl. No. | Major group/class | Quantity (ton.) | Value (Rs.) | Num | ber of recipient/ benefic | iaries |
|---------|-------------------|-----------------|-------------|---------|---------------------------|--------|
| | | | | General | SC/ST | Total |
| 1 | CEREALS | 23.66 | 354900.00 | 15 | 0 | 15 |
| 2 | OILSEEDS | 114.69 | 3619350.00 | 605 | 35 | 640 |

| 3 | PULSES | 10.45 | 361700.00 | 110 | 12 | 122 |
|-------|------------------------|-------|------------|-----|----|-----|
| 4 | VEGETABLES (Seedlings) | 25500 | 25500.0 | 13 | 0 | 13 |
| 5 | FLOWER CROPS | | | | | |
| 6 | OTHERS | | | | | |
| TOTAL | | 148.8 | 4361450.00 | 743 | 47 | 790 |

B. Production of Planting Materials(Nos. in lakh):

| Major group/class | Сгор | Variety | Numbers (In Lakh) | Value (Rs.) | Number of rec | ipient beneficial | ries |
|----------------------|-------------|-----------|-------------------|-------------|---------------|-------------------|-------|
| | | | | | General | SC/ST | Total |
| Fruits | - | - | - | - | - | - | - |
| Spices | - | - | - | - | - | - | - |
| Ornamental Plants | - | - | - | - | - | - | - |
| VEGETABLES | Tomato | Arka Abed | 10000 | 10000.00 | 5 | 0 | 5 |
| | Brinjal | PH-5 | 2500 | 2500.00 | 3 | 0 | 3 |
| | Cauliflower | Moti | 6500 | 6500.00 | 3 | 0 | 3 |
| | Chilli | G-4 | 6500 | 6500.00 | 2 | 0 | 2 |
| Forest Spp. | - | - | - | - | - | - | - |
| Plantation crops | - | - | - | - | - | - | - |
| Medicinal plants | - | - | - | - | - | - | - |
| OTHERS (Pl. Specify) | - | - | - | - | - | - | - |

B1. SUMMARY of Production and supply of planting Materials (In Lakh) during 2019-20: Nil

| Sl. No. | Major group/class | Numbers (In Lakh) | Value (Rs.) | Number of recipient beneficiaries | | | | |
|---------|------------------------|-------------------|-------------|-----------------------------------|-------|-------|--|--|
| | | | | General | SC/ST | Total | | |
| 1 | Fruits | - | - | - | - | - | | |
| 2 | Spices | - | - | - | - | - | | |
| 3 | Ornamental Plants | - | - | - | - | - | | |
| 4 | VEGETABLES (Seedlings) | 25500 | 25500.0 | 13 | 0 | 13 | | |
| 5 | Forest Spp. | - | - | - | - | - | | |
| 6 | Medicinal plants | - | - | - | - | - | | |
| 7 | Plantation crops | - | - | - | - | - | | |
| 8 | OTHERS (Specify) | - | - | - | - | - | | |
| | TOTAL | 25500 | 25500.0 | 13 | 0 | 13 | | |

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C. Production of Bio-Products during 2019-20:

| Major group/class | Product Name | Species | Quantity | | Value (Rs.) | Number of Recipient /beneficiaries | | |
|-------------------|--------------|---------|----------|-------|-------------|------------------------------------|-------|-------|
| | | | No | (qt) | | | | |
| | | | | | | General | SC/ST | Total |
| BIOAGENTS | - | - | - | - | - | - | - | - |
| BIOFERTILIZERS | - | - | - | - | - | - | - | - |
| BIO PESTICIDES | - | - | - | - | - | - | - | - |
| BIO PRODUCTS | Vermicompost | - | - | 120.0 | 144000.00 | 5 | - | 5 |
| | Mushroom | - | - | 8.85 | 82500.00 | 4 | - | 4 |

C1. SUMMARY of production of bio-products during 2019-20:

| Sl. No. | Droduct Name | Species | Quantity | | Value (Ds.) | Number of Recipient beneficiaries | | Total number of |
|---------|--------------------|--------------|----------|----------|---------------|--------------------------------------|-------|----------------------------|
| | | | Nos | (kg) | v ande (185.) | General | SC/ST | Recipient beneficiaries |
| 1 | BIOAGENTS | - | - | - | - | - | - | - |
| 2 | BIO FERTILIZERS | - | - | - | - | - | - | - |
| 3 | BIO PESTICIDE | - | - | - | - | - | - | - |
| 4 | BIO PRODUCTS | Vermicompost | 5 | 12000.00 | 144000.00 | 5 | - | 5 |
| 4 | | Mushroom | 4 | 885.0 | 82500.00 | 4 | | 4 |
| | TOTAL | | 9 | 12885.00 | 226500.00 | 9 | - | 9 |

D. Production of livestock during 2019-20

| Sl. No. | Type of livestock | Breed | Quan | ntity | Value (Rs.) | Value (Rs.) Number of | | r of Recipient | |
|---------|---------------------------------|-------|---------|-------|-------------|-----------------------|-------|----------------|--|
| | | | (Nos) | Kgs | | beneficiaries | | | |
| | | | | | | General | SC/ST | Total | |
| 3 | Piggery (Piglets) | | - | - | - | - | - | - | |
| 4 | Poultry (Chicken hatching egg) | | - | - | - | - | - | - | |
| | Duck egg | | - | - | - | - | - | - | |
| 5 | Fisheries (Fingerlings) | | 1000000 | - | 450000.00 | 2 | - | 2 | |
| 6 | Others (Specify) | - | - | - | - | - | - | - | |
| | Total | | 1000000 | | 450000.00 | 2 | - | 2 | |

| D1. | SUMMARY | of production | of livestock during 2019-20: | |
|-----|---------|---------------|------------------------------|--|
|-----|---------|---------------|------------------------------|--|

| Sl. No. | Livestock category | Breed | Quantity | | Value (Rs.) | Number of Recipient beneficiaries | | Total number of Recipient |
|---------|----------------------------|-------|----------|------|-------------|--------------------------------------|-------|------------------------------|
| | | | Nos | (kg) | | General | SC/ST | beneficiaries |
| 1 | CATTLE | - | - | - | - | - | - | - |
| 2 | SHEEP & GOAT | - | - | - | - | - | - | - |
| 3 | POULTRY (Duck egg) | - | - | - | - | - | - | - |
| 4. | PIGGERY (Piglets) | - | - | - | - | - | - | - |
| 5 | FISHERIES (Fingerlings) | IMC | 1000000 | - | 450000.00 | 2 | - | 2 |
| 6 | OTHERS (Pl. specify) | - | - | - | - | - | - | - |
| | TOTAL | | 1000000 | | 450000.00 | 2 | - | 2 |

3.6. Literature Developed/Published (with full title, author & reference) during 2019-20

(A) KVK News Letter (Date of start, Periodicity, number of copies distributed etc.): 1

(B) Articles/ Literature developed/published

| | | | Number |
|-----------------|--|--|--------|
| Item | Title /and Name of Journal | Authors name | of |
| | | | copies |
| Research papers | Empowering Rural Women through vocational and Skill training programme of KVK: A study in Dhubri District of Assam. Published in National Conference on Women Empowerment through Entrepreneurship and Skill Development, held on 7 th March, 2020 at SCSCA, Bahalpur, Dhubri | Dr. C. K. Deka, Mr. B.K. Das, Mr. A. Paul, Ms. Bhuyan, Mr. G.K. Sarma, Mr. Bikash Gharphalia. Kuladip Talukdar and Ms. N. Nath | - |
| | Socio-Economic Profile And Management Practices Adopted By Sheep Farmers In Dhubri District Of Assam. Published in Indian Journal of Veterinary and Animal Sciences Research. | Rafiqul Islam, Mustafizur Rahman and Chandan Kr. Deka | |
| Abstracts | Empowering Rural Women through vocational and | Dr. C. K. Deka, Mr. B.K. Das, Mr. A. Paul, Ms.N. | - |

| | Skill training programme of KVK: A study in Dhubri District of Assam. Published in National Conference on Women Empowerment through Entrepreneurship and Skill Development, held on 7th March, 2020 at SCSCA, Bahalpur, Dhubri | Bhuyan, Mr. G.K. Sarma, Mr. Bikash Gharphalia. Kuladip Talukdar and Ms. N. Nath | |
|---------------------|---|--|------|
| Technical Report | | | |
| 1. | Annual Report 2019-20 | Dr. C. K. Deka, Mr. B.K. Das, Mr. A. Paul, Ms. N. Bhuyan, Mr. G.K. Sarma, Mr. B. Gharphalia, Ms. N. Nath, Mr. K. Talukdar, Mr. D. Bora, Mr. S. Suman | 1 |
| 2. | Annual Action Plan, 2020-21 | Dr. C. K. Deka, Mr. B.K. Das, Mr. A. Paul, Ms. N. Bhuyan, Mr. G.K. Sarma, Mr. B. Gharphalia, Ms. N. Nath, Mr. K. Talukdar, Mr. D. Bora, Mr. S. Suman | 1 |
| 3. | ZREAC Report (Kharif,& Rabi 2019-20) | Dr. C. K. Deka, Mr. B.K. Das, Mr. A. Paul, Ms. N. Bhuyan, Mr. G.K. Sarma, Mr. B. Gharphalia, Ms. N. Nath, Mr. K. Talukdar, Mr. D. Bora, Mr. S. Suman | 2 |
| 4. | Monthly Report | Dr. C. K. Deka, Mr. D. Bora, Ms. N. Nath | 12 |
| 5. | Quarterly Report | Dr. C. K. Deka, Mr. D. Bora, Ms. N. Nath | 4 |
| 6. | NICRA ZMC Report | Dr. C. K. Deka, Mr. B. K. Das, Mr. D. Bora | 1 |
| Booklet | | - | - |
| Popular articles | | - | - |
| Technical bulletins | - | - | - |
| Extension bulletins | Mou Palon : Gramya Yobokor Atma Santhaponor Ek Upai | C. K. Deka, B.K. Das, A. Paul, N. Bhuyan, P. Sutradhar, R. Islam, G.K. Sarma, N. Nath, G. Bordoloi, K. Baruah | 1000 |
| | Farmers Club (Krisok Sangha) | C. K. Deka, B.K. Das, A. Paul, N. Bhuyan, P. Sutradhar, R. Islam, G.K. Sarma, N. Nath | 1000 |
| | Hah Palon : Swaniyojonor Ane Ek Upai | C. K. Deka, B.K. Das, A. Paul, N. Bhuyan, P. Sutradhar, R. Islam, G.K. Sarma, N. Nath, G. Bordoloi, K. Baruah | 1000 |
| | Sashyat Bipodmukta Rasayonik Kitnasokor Prayog aru yar Baboharik Gyan | C. K. Deka, B.K. Das, A. Paul, N. Bhuyan, P. Sutradhar, R. Islam, G.K. Sarma, N. Nath, G. Bordoloi, K. Baruah | 1000 |

| | Sagoli Palon : Sawajonor Anaya ek upai | C. K. Deka, B.K. Das, A. Paul, N. Bhuyan, P. Sutradhar, R. Islam, G.K. Sarma, N. Nath, G. Bordoloi, K. Baruah | 1000 |
|-------------------------------------|--|--|------|
| | Utkrista Protinjukta Makoi Unnata Krishi Podhoti | C. K. Deka, B.K. Das, A. Paul, N. Bhuyan, P. Sutradhar, R. Islam, G.K. Sarma, N. Nath | 1000 |
| | Seujiya Sar Dhaincha khetir abasyakiyota | C. K. Deka,B.K. Das, A. Paul, N. Bhuyan,G.K. Sarma, B Gharphalia. K.Talukdar and N. Nath | 1000 |
| | Dhuburi Jilat Prakritik Durjog Prasamanar babe Krishi Parikalpana aru Krishi Prajukti | C. K. Deka,B.K. Das, A. Paul, N. Bhuyan,G.K. Sarma, B Gharphalia. K.Talukdar and N. Nath | 1000 |
| Newsletter | KVK Dhubri Newsletter, 2019-20 | Dr. C. K. Deka, Dr. P. Sutradhar, Mr. B.K. Das, Mr. A. Paul, Ms.N. Bhuyan, Mr. G.K. Sarma, Dr. R. Islam Ms. N. Nath, Mr. D. Bora, Mr. S. Suman, Mr. A. Das | 100 |
| Conference/ workshop proceedings | - | - | - |
| Leaflets/folders | - | - | - |
| e-publications | - | - | - |
| Any other (Pl. specify) | - | - | - |
| TOTAL | | | |

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

3.7. Success stories on horizontal spread of the technologies/Case studies, if any (two or three pages write-up on each case/ successes with suitable action photographs)

Raising of Farm Income through Improved Technologies and Crop Diversification: A Success Story from NICRA Village

A. Background information of the farmers:

Udmari, the NICRA village of KVK, Dhubri is a regularly flood affected village of Raniganja Development Block of Bilasipara subdivision in Dhubri District of Assam. Every year flood causes heavy damage to the crops as well as livestock of this village. Although winter rice is the main crop grown by the farmers of this village but it is a chance crop for them. Sometimes they can harvest their crop and sometimes not. Mr. Khitish Nath is a 41 yrs old progressive farmer of Udmari Pt III having 2.93 ha (22 bighas) land of his own. His father Lt.Suresh Ch. Nath was also a farmer and followed conventional method of cultivation due to which he could not earn much profit. Due to the poor economic condition, Khitish could not complete his education beyond class X and he had to engage himself in cultivation with his father.

B. Journey in timeline :

Starting point:

After the death of his father (when he was 25 yrs old) he had to take the responsibility of his family with his mother, wife and two sons. Mr. Khitish is an innovative farmer and always tries to do the crop cultivation in scientific way. He thought himself that earning from one source is not sufficient and he joined in a painting class for 6 months at Bilasipara by thinking that it will give him an extra income to his family in addition to agriculture. After completion of the painting class, he started painting work commercially and earned an extra income.

Out of 2.93 ha (22 bighas) land, he cultivated rice in 1.33 ha (10 bighas), toria in 0.26 ha (2 bigha) and vegetables in 0.07 ha (0.5 bigha) land and remaining 1.27 ha (9.5 bighas) land was kept fellow. He cultivated low yielding local varieties of rice like Malsira, Goyasri, Phulpakhari and local toria varieties. By cultivating these varieties he could not earn much profit as these varieties are low yielder and many a times got damaged by flood water which was the major problem for his area.

Turning Points:

In 2014, he came in contact with KVK, Dhubri through the NICRA project run by KVK, Dhubri which was the turning point for him. He considered it as his most important moment because of which he got the information and knowledge of improved technologies which increased his income many fold.

End points:

By studying the cultivation history, KVK scientists suggested him a farm plan to him to go ahead. KVK advised him togo for cultivation of HYV of rice like Ranjit, Mashuri and some submergence tolerance new rice varieties like Swarna Sub 1, Bahadur Sub 1 Ranjit Sub1 and Gitesh instead of cultivating low yielding local varieties of rice. KVK arranged all these varieties through programmes of NICRA and from other reliable sources. He also increased the rice area from 1.33ha to 1.87 ha. By cultivating these varieties he got almost double production and income than ever before as these varieties are well suited for his area.

He was also suggested to go for HYVs of toria like TS-36, TS-38 and TS-67 instead of low yielding local varieties and able to earn more profit as these varieties are well suited to their situation. Although he cultivated toria in 0.27 ha at first, later on with the advice of KVK, he expanded the area up to 0.53 ha under toria cultivation.

Most of the farmers of Dhubri district practiced single crop for commercial cultivation in their land suitable for vegetable cultivation. Khitish Nath has 0.13 ha (1 bigha) of upland at his home where he used to cultivate single crop i.e. cabbage only in 0.07 ha. But KVK scientists advised him to go for more

crops as the land is suitable for vegetable cultivation and accordingly under the guidance of KVK, Dhubri, he adopted the technology on diversification of crops for raising the farm income during the year 2015-16 with the objective to minimize the risk of crop cultivation.

His area of fallow land was also reduced from 1.27 ha to 0.4 ha. His income before and after intervention was shown below.

Income from different crops:

| Before Int | Before Intervention (upto 2014) | | | After Intervention (after 2014) | | | | | Increase income | in | |
|-----------------|----------------------------------|------------------------|------------------------|---------------------------------|--|--------------|------------------------|------------------------|----------------------|-----------|--|
| Crops grown | Area (ha) | Av. Yield (q/ha) | Total Yield (qt) | Gross Income (Rs) | Crops Grown | Area (ha) | Av. Yield (q/ha) | Total Yield (qt) | Gross Income (Rs) | | |
| Sali rice | 1.33 | 21.0 | 28.0 | 35000.00 | Sali rice | 1.87 | 42.0 | 78.4 | 98000.00 | 58000.00 | |
| Toria | 0.27 | 7.5 | 2.0 | 6000.00 | Toria | 0.53 | 10.5 | 5.6 | 16800.00 | 10800.00 | |
| Cabbage | 0.07 | 195.0 | 13.0 | 13000.00 | Kharif & Rabi Vegetables (16 nos) (Crop diversification model) | 0.133 | - | - | 75000.00 | 49000.00 | |
| | | | | | Vermicompost (2 units) | 2 unit | 9 qt/ unit | 18 q/ unit | 21600.00 | 21600.00 | |
| Fallow land | 1.27 ha | ha 0.4 ha | | | | | | | | | |
| Total Income | | | | 54000.00 | 211400.00 | | | | | 144400.00 | |

Economics of Crop Diversification model of Vegetables:

| Income from Previous Cultivation (only Cabbage Cultivation): | Income from new practice of Crop Diversification: |
|--|---|
| | |
| Area | Area : 0.133 ha |
| Production | Gross Expenditure : Rs.21550.00 |
| Gross Income (Rs.) : 13qt x Rs.1000.00/qt | Gross Income : Rs. 75000.00 |
| : Rs.13000.00 | B.C Ratio : 3.48 |
| Gross Expenditure (Rs): Rs. 6000.00 | |
| B.C.Ratio : 2.17 | |
| | |

| Kharif vege | etables grown by farmers | | | | B.C. Ratio |
|-------------|--------------------------|-------------|-------------------|--------------|------------|
| Sl. No. | Сгор | Area (Sq.m) | Expenditure (Rs.) | Income (Rs.) | |
| 1. | Sponge gourd | 200 | 800 | 3000 | 3.75 |
| 2. | Ridge gourd | 200 | 650 | 2000 | 3.08 |
| 3. | Cucumber | 100 | 700 | 2500 | 3.57 |
| 4. | Ash gourd | 200 | 800 | 3000 | 3.75 |
| 5. | Colocasia | 200 | 1500 | 7500 | 5.00 |
| 6. | Sugarcane | 200 | 4000 | 9000 | 2.25 |
| 7. | Bean | 50 | 500 | 2000 | 4.00 |
| 8. | Pumpkin | 150 | 500 | 1500 | 3.00 |
| Sub Total | | 1300 | 9450 | 30500 | 3.23 |
| Rabi Veget | ables grown by farmers | | | | |
| 1. | Cabbage | 300 | 3000 | 10000 | 3.33 |
| 2. | Cauliflower | 200 | 3000 | 10000 | 3.33 |
| 3. | Brinjal | 300 | 2000 | 12000 | 6.00 |
| 4. | Tomato | 150 | 1500 | 4000 | 2.67 |
| 5. | Chilli | 30 | 300 | 1000 | 2.33 |
| 6. | Coriander | 30 | 300 | 1000 | 2.33 |
| 7. | Garlic | 30 | 500 | 4000 | 8.00 |
| 8. | Potato | 300 | 1500 | 2500 | 1.67 |
| Sub Total | | 1340 | 12100 | 44500 | 3.68 |
| Grand Tota | al | 2640 | 21550 | 75000 | 3.48 |

Challenges Confronted:

Poor economic condition, no other helping hand in his family and every year the village is affected by flood were the major challenges for him.

Opportunities Captured: (offered by KVK and support from other organization)

Intervention from KVK:

- Provided improved technologies of rice, toria, sugarcane, vermicompost, vegetables , diversified agriculture etc through training and demonstration
- Technical advice as and when needed through field visit, phone call, whatsapp etc.
- Introduced the seed bank for easy availability of HYVs of seed of rice and toria for his own as well as for other farmers of his locality.

Support from other organization:

Received sprayer, SRI wheel marker, STW from Deptt. of Agriculture. He got one Gobar gas plant from department forest, Govt of Assam which he installed at his home and he is using the gobar gas for cooking of food

C. Special strength/ traits/ advantages/technologies/ innovations/ circumstances that could be attributed to his success: Special Strength of Khitish:

- Hard worker and sincerity in work
- Good time manager
- Innovative and positive thinking
- Good relation with officials and with villagers

Technologies which helped him in getting success are:

- Replacement of local varieties with HYVs of rice (Varieties like Ranjit, Ranjit Sub-1, Swarna Sub 1, Gitesh, Bahadur Sub-1) and toria (TS-36, TS-38, TS-67)
- Crop diversification concept & Technologies
- Seed bank of rice and toria
- Low cost vermicompost production technology.

D. Impact of the success in his life (income resource growth etc.):

- His income increased more than double
- Got popularity in the areas because of his work
- Got recognition from District Administration and KVK as best farmer of the district
- Dr. A.K.Tripathi, Director, ATARI Zone VI after visiting his farm advised KVK to install one Micro irrigation Unit at his farm and MI unit is already being established at his farm by KVK, Dhubri.

E. Lessons for the fallow farmers/ communities and also for KVK and others:

- He has become the role model for other fellow farmers of his areas
- KVK can sight the example of Khitish to other farmers for his real success in farming
- KVK organized many exposure visit of farmers and students to his farm for getting the first-hand experience for the farmers







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

- * Working through progressive farmers /successful farmers in training for motivating other farmers, identification of other well to do farmers through them, arranging training and other programmes in their areas.
- * Working through NGOs, FPOs for arranging training, beneficiary selection for various programme
- **3.9** Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

| S. | Crop / | ITK Practiced | Purpose of ITK |
|-----|------------|--------------------------------------|---|
| No. | Enterprise | | |
| 1 | Rice | Keeping plastic sheet in a pole | This technique is used by farmers for control of Rat in rice field. The farmers keep this plastic |
| | | in the rice field at tillering stage | sheet in a pole in different places of the rice field. The reasons is that while air blows, the |
| | | | plastic sheet makes a sound which make the rat alert that something is coming and they |
| | | | immediately ran away from that area in fear. Thus farmers use this ITK to control rat problem |
| | | | in the paddy field. |
| 2 | Banana | Wrapping the cut portion of | When farmers cut the banana blossom from the Banana bunch, they wrap the cut portion |
| | | banana blossom of Banana | which helps in increasing the size of Banana in the bunch and reduce the attack of scaring |
| | | Bunch | beetle. |





Indicate the specific training need analysis tools/methodology followed for - Identification of courses for farmers/farm women 3.10

- Rural Youth _
- Extension personnel -

Field activities 3.11

- Number of villages adopted: 11 Adopted village of KVK i.
- ii. No. of farm families selected: 605
- iii. No. of survey/PRA conducted: 2

Activities of Soil and Water Testing 3.12.

| | Status of establishment of Lab | : Nil |
|----|--|-------|
| 1. | Year of establishment | : Nil |
| 2. | List of equipments purchased with amount | : |

Details of samples analyzed (2019-20) 3. :

| Details | No. of Samples analyzed | No. of Farmers | No. of Villages | Amount (In Rupees) realized |
|-----------------|-------------------------|----------------|-----------------|---------------------------------|
| Soil Samples | 25 | 250 | 25 | 7250.00 |
| Water Samples | - | - | - | - |
| Plant Samples | - | - | - | - |
| Petiole Samples | - | - | - | - |
| Total | 25 | 250 | 25 | 7250.00 |

4. Details of Soil Health Cards (SHCs) (2019-20)

- a. No. of SHCs prepared:250
- b. No. of farmers to whom SHCs were distributed:250
- c. Name of the Major and Minor nutrients analyzed: N, P, K, pH, Organic Carbon ... etc.
- d. No. of villages covered:25
- e. Soil health card based nutrient management in different crops (pl. submit in brief in separate page) :-

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

| Message | Crop | | Livestock | | Weather | | Marketing | | Awareness | | Other Ent. | | Total | |
|------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|
| type | No. of Message | No. of Ben eficiary | No. of Message | No. of Benef iciary | No. of Message | No. of Benef iciary | No. of Message | No. of Benefi ciary | No. of Message | No. of Benef iciary | No. of Message | No. of Benef iciary | No. of Message | No. of Benefi ciary |
| Text only | 57 | 2400 | 12 | 2400 | 40 | 2400 | - | - | - | - | - | - | 109 | 109 |
| Voice only | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Voice and Text both | - | - | | - | - | - | - | - | - | - | - | - | - | - |
| Total | 57 | 2400 | 12 | 2400 | 40 | 2400 | - | - | - | - | - | - | 109 | 2400 |

3.14 Contingency planning for 2020-21

a. Crop based Contingency planning

| Contingency | Proposed Measure | Proposed Area | Number of beneficiaries proposed to be covered | | | |
|--------------|--|---------------|--|-------|-------|--|
| Cyclone/ Any | | covered | General | SC/ST | Total | |
| specify) | | | | | | |
| | Introduction of new variety or crop | | | | | |
| Flood | Submergence tolerant rice varieties such as Swarna Sub 1./ Ranjit Sub 1 in chronically flood affected areas | 10.0 | 10 | 5 | 15 | |
| | Short duration rice varieties Luit under post flood situation | 5.0 | 5 | 2 | 7 | |
| | Short duration rice varieties Luit for pre flood situation | 5.0 | 5 | 2 | 7 | |
| | Popularization of improved varieties and production technology of rabi crops | 20.0 | 20 | 10 | 30 | |

| | Drainage in oilseed and pulses | 5.0 | 5 | 2 | 7 |
|---------------------------------|--|----------|----|----|----|
| Flood/Drought like situation | Popularization of staggered planting rice varieties such as Gitesh | 10.0 | 10 | 5 | 15 |
| Drought like situation | Integrated farming system module demonstration as alternative livelihood support | 5 units | 4 | 1 | 5 |
| | Irrigation management in major field crops | 5.0 | 5 | 2 | 7 |
| | Soil fertility management (N &K) in rice | 5.0 | 5 | - | 5 |
| | Renovation of farm ponds for multiple use | 5 units | 4 | 1 | 5 |
| | Mulching in horticultural crops | 1.0 | 7 | - | 7 |
| Drought like | Introduction of Resource Conservation Technologies | | | | |
| situation | Zero tillage in field crops | 1.0 | 3 | - | 3 |
| Flood | Distribution of seeds and planting materials | | | | |
| | Community nursery | 5.0 | 70 | 5 | 75 |
| | Seed production | 2.0 | 3 | 1 | 4 |
| | Any other (Please specify) | | | | |
| Flood/Drought | Custom Hiring Centre for timeliness of operation | - | 25 | 10 | 35 |
| Livestock & | Demonstration on cultivation of perennial fodder | 1.0 | 4 | 2 | 5 |
| Fishery | Demonstration of low cost poultry house /Goat house in flood affected areas | 10 units | 8 | 2 | 10 |
| | Placement of plastic net along the periphery of fish pond | 1000m | 8 | 2 | 10 |
| | Pen culture technology in low lying areas | 2.0 ha | 5 | 2 | 7 |

a. Livestock based Contingency planning

| Contingency (Drought/ Flood/ Cyclone/ Any other please specify) | Number of birds/ animals to be distributed | No. of programmes to be undertaken | No. of camps to be organized | Proposed number of animals/ birds to be covered through camps | Number of beneficiari proposed to be covere | | iaries /ered |
|--|--|--|---------------------------------|---|--|-------|-----------------|
| | | | | | General | SC/ST | Total |
| Flood (Animal Sc.) | 100 | 2 | 4 | 400 | 200 | 50 | 150 |
| Flood (Fishery) | 200000 | 2 | 4 | 100 ponds | 80 | 20 | 100 |
| Drought (Fishery) | - | - | 1 | 50 ponds | 40 | 10 | 50 |

4.0. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period only)

| Name of specific technology/skill transferred | Area covered (in ha) | % of adoption | Change in income (Rs.) | | |
|--|----------------------|---------------|------------------------|-------------------------------|--|
| | | _ | Before (Rs./Unit) | After (Rs./Unit) | |
| Demonstration of low cost vermicompost Production technology | 50 unit | 25% | - | 18000.00/ unit | |
| Demonstration of Oyster Mushroom | 20 unit | 25% | - | 40000.00/ unit of 200 beds | |
| Crop diversification with toria variety "TS-36" | 64 | 42% | 9,3000.00/ha | 20,400.00/ha | |
| Crop diversification with toria variety "TS-38" | 60 | 43% | 9,3000.00/ha | 20,400.00/ha | |
| Crop diversification with toria variety "TS-67" | 14 | 25% | 9,3000.00/ha | 20,400.00/ha | |
| Scientific cultivation of HYV of Sali rice var. Ranjit Sub-1 | 300 | 48% | 21,600.00/ha | 34,200.00/ha | |
| Demonstration on submergence tolerance rice variety 'Swarna sub1' | 200 | 35% | 28,000.00/ha | 76,000.00/ha | |
| Demonstration on staggered planting rice variety ' Gitesh' | 25 | 20% | 8,058.00/ha | 23,448.00/ha | |

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

1.1. Cases of large scale adoption

- 1. Quality seed plays an important role in increasing the crop yield; however, seed replacement rate in the district is only 11-12 % which may be attributed to ignorance of farmers on seed production technology. KVK, Dhubri has initiated massive seed production programme in rice in the farmer's field through technology showcasing programme. Training programme, front line demonstration programme, advisory services etc. were also being conducted regularly to popularize seed production technology in the district.
- 2. The Submergence tolerant rice varieties Ranjit Sub-1, Bahadur Sub-1 and Swarna Sub-1 were introduced by KVK in the flood affected areas and now this variety is popular among the farmers and the Department of Agriculture has also given demonstration of this varieties in the district. At present Rice variety Ranjit Sub 1 is also gaining popularity among the farmers as submergence tolerance rice variety.
- 3. Toria is the most important oilseed crop of the district grown during rabi season; however productivity of this crop is low which may be attributed to poor adoption of HYVs of toria with scientific management practice. KVK Dhubri introduced HYV of Toria 'TS 36', TS-38 and TS-67 in the farmer's field

through demonstration programme. This variety recorded 10.5 q av. yield per hectare as compared to 8.0 q/ha in existing variety with higher net returns and benefit cost ration in the farmer's field. After visualizing the result, many farmers adopted this variety and also gaining popularity among the farmers.

- 4. Rice is the most important crop of the district which occupies more than 70% of the total rice growing areas. *Kharif* rice is cultivated in more than 44,000ha area. In the farmer's field, adoption of improved production technology in Kharif rice was not satisfactory and KVK, Dhubri is trying hard to popularize improved technology through various activities like training, front line demonstration, on farm testing, advisory service etc. Because of the sincere effort, farmers have started adopting improved production technology in Sali rice especially in respect of quality seed, fertility management and pest management. At present HYV of *Kharif* rice is cultivated more than 40% of rice growing areas of the district. Considering the high yield potential of HYVs of Sali rice, it is expected that more farmers will come forward to adopt HYVs in near future.
- 5. Low cost Vermicompost production technology is also gaining popularity among the farmers. Many farmers are taking this venture as a source of income generation and earning a handsome profit by selling the Vermicompost.

| Name of specific technology/skill transferred | No. of participants | % of adoption | Before (Rs./Unit) | After (Rs./Unit) |
|--|------------------------|---------------|-------------------|----------------------------|
| High yielding variety of rice ' <i>Ranjit Sub-1</i> ' | 30 | 50.0 | 8,058.00/ha | 23,448.00/ha |
| Composite fish farming | 50 | 30.0 | 15,025.00 | 26,850.00 |
| Low cost Vermicompost Production | 30 | 35.0 | - | 18000.00/ unit |
| Mushroom Production | 20 | 30.0 | - | 40000.00/ unit of 200 beds |

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

5.0. LINKAGES ESTABLISHED

5.1. Functional linkage with different organizations

| Name of organization | Nature of linkage |
|---------------------------|--|
| State Dept of agriculture | Technical assistance to the programme |
| | Bringing green revolution to eastern India Implementation of technology showcasing Implementation of National Bamboo Mission Implementation of Technology Mission Implementation of Technology showcasing programme. |

| RRLRRC, Gerua, Hajo | - Implementation of the programme "Bringing green revolution to eastern India". |
|--|---|
| State Dept of Animal Husbandry & Vety | -Technical assistance |
| | -Joint vaccination programme |
| | -Awareness programme |
| College/Research stations / KVKs of AAU | -Supply of quality seed |
| | -Implementation of FPARP in the farmer's field. |
| | -Survey work |
| | -Collaborative training, OFT, FLD, health camp etc. |
| Bank (SBI, AGVB, UBI, NABARD etc.) | -Formation of farmer's club |
| | -Project approval & subsidy claim for JLG |
| | -Resource person |
| NGOs | -Demonstration |
| | -Technical assistance |
| | -Organizing training |
| ATMA, Dhubri | -Technical assistance |
| | -Resource persons in training programme |
| | -Preparation of block action plan |
| State Dept of Fisheries | -Establishment of fish seed village |
| | Technical assistance |
| National Fisheries Development Board | -Exposure visit |
| | -Skill development Programme |
| National Rural Livelihood Mission (NRLM) | -Technical assistance |
| | -Resource persons in training programme |
| College of Fishery Science, Raha | - Collaborative training |
| ASCI | -Skill Training |
| | |

| Name of the scheme | Activity | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|--|------------------------------|--|--------------|
| National Initiative on Climate Resilient Agriculture | Demonstration of climate resilient agricultural technologies in flood affected areas | 2019-20 | Indian Council of Agricultural Research | 890000.00 |
| Cluster FLD on Oilseeds (Rabi) | Demonstration | 2019-20 | Indian Council of Agricultural Research | 170000.00 |
| Additional Cluster FLD on Oilseeds (Rabi | Demonstration | 2019-20 | Indian Council of Agricultural Research | 780000.00 |
| Cluster FLD on Pulses (Rabi) | Demonstration | 2019 | Indian Council of Agricultural Research | 180000.00 |
| Cluster FLD on Pulses (Kharif) | Demonstration | 2019 | Indian Council of Agricultural Research | 90000.00 |
| PCRA | Awareness | 2019 | PCRA | 8300.00 |
| Skill Development Training under ASCI | Training | 2019 | ASCI, GOI | 411600.00 |

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies during 2019-20

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

| Sl. No. | Programme | Nature of linkage | Remarks |
|---------|---|---------------------------|---|
| 1. | Technology demonstration / Training programme | Member of ATMA GB and AMC | Technical support in planning and formulation of DAP&BAP Resource person for training of farmers |

5.4 Give details of programmes implemented under National Horticultural Mission: No

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

5.5 Nature of linkage with National Fisheries Development Board: NA

6. PERFORMANCE OF INFRASTRUCTURE IN KVK DURING 2019-20

6.1 Performance of demonstration units (other than instructional farm): Nil

| | | | | Details | of production | | Amour | nt (Rs.) | |
|---------|-----------|---------------|------|---------|---------------|------|----------------|--------------|---------|
| SI. No. | Demo Unit | Year of estd. | Area | Variety | Produce | Qty. | Cost of inputs | Gross income | Remarks |
| | | | | | | | | | |

6.2 Performance of instructional farm (Crops) including seed production: Nil

| Nama | Name Date of Date of | | 9 | Details of production | | | Amou | nt (Rs.) | |
|---------------------------|----------------------|---------|------------|-----------------------|--------------------|------|-------------------|-----------------|---------|
| of the crop | sowing | harvest | Are (ha | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| Cereals | | | | | | | | | |
| Rice | | | | | | | | | |
| Wheat | | | | | | | | | |
| Maize | | | | | | | | | |
| Any other | | | | | | | | | |
| Pulses | | | | | | | | | |
| Green gram | | | | | | | | | |
| Black gram | | | | | | | | | |
| Arhar | | | | | | | | | |
| Lentil | | | | | | | | | |
| Ay other | | | | | | | | | |
| Oilseeds | | | | | | | | | |
| Mustard | | | | | | | | | |
| Soy bean | | | | | | | | | |
| Groundnut | | | | | | | | | |
| Any other | | | | | | | | | |
| Fibers | | | | | | | | | |
| i. | | | | | | | | | |
| ii. | | | | | | | | | |
| Spices & Plantation crops | | | | | | | | | |
| i. | | | | | | | | | |
| ii. | | | | | | | | | |
| Floriculture | | | | | | | | | |
| i. | | | | | | | | | |
| ii. | | | | | | | | | |
| Fruits | | | | | | | | | |
| i | | | | | | | | | |
| ii. | | | | | | | | | |

| Vegetables | | | | | | | | | | |
|------------|-----------|--|--|--|--|--|--|--|--|--|
| i. | | | | | | | | | | |
| ii. | | | | | | | | | | |
| a. Others | a. Others | | | | | | | | | |
| (specify) | | | | | | | | | | |
| i. | | | | | | | | | | |

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

| SL | | _ | Amou | nt (Rs.) | |
|-----|---------------------|-----|----------------|--------------|---------|
| No. | Name of the Product | Qty | Cost of inputs | Gross income | Remarks |
| | | | | | |

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

6.5 Rainwater Harvesting: NIL

Training programmes conducted by using Rainwater Harvesting Demonstration Unit: NA

6.6. Utilization of hostel facilities (Month-Wise) during 2019-20: NA

7. FINANCIAL PERFORMANCE

Details of KVK Bank accounts

| Bank account | Name of the bank | Location/ Branch | Account Number |
|---------------------|------------------|------------------|----------------|
| With Host Institute | - | - | - |
| With KVK | SBI, Bilasipara | Bilasipara | 11782335300 |
| Revolving Fund | - | - | - |
| | | | |

7.2 Utilization of funds under FLD on Maize (Rs. In Lakhs) if applicable: NA

| Item | Released by ICAR/ZPD | | Expe | nditure | Ungnant halanas as an 21 st Manah 2010 | |
|----------------------|----------------------|------|------|---------|---|--|
| | Year | Year | Year | Year | Unspent balance as on 51 March, 2019 | |
| Inputs | | | | | | |
| Extension activities | | | | | | |
| TA/DA/POL etc. | | | | | | |
| TOTAL | | | | | | |

7.3 Utilization of KVK funds during the year 2019 -20

| S. No. | Particulars | Sanctione d (in Lakh) | Release d (in Lakh) | Expenditure (in Lakh) |
|-----------|--|-----------------------------|------------------------------|--------------------------|
| A. Re | ecurring Contingencies | | | |
| 1 | Pay & Allowances | 120.00 | 136.81 | 136.81 |
| 2 | Traveling allowances | 2.50 | 2.50 | 2.50 |
| 3 | | | | |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance | | | |
| | (Purchase of News Paper & Magazines) | | | |
| B | POL, repair of vehicles, tractor and equipments | | | |
| С | Meals/refreshment for trainees | | | |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | 15.27 | |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | 15.50 | | 15.27 |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | | | |
| G | Training of extension functionaries | | | |
| H | Maintenance of buildings | | | |
| Ι | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| J | Library | | | |
| | TOTAL (A) | 15.50 | 15.27 | 15.27 |
| | | | | |
| 1 | Works | | | |
| 2 | Equipments including SWTL & Furniture | | | |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | | | |
| 4 | Library (Purchase of assets like books & journals) | | | |
| | TOTAL (B) | | | |
| C. R | EVOLVING FUND | | | |
| | GRAND TOTAL (A+B+C) | 15.50 | 15.27 | 15.27 |

7.4 Status of Revolving Fund (Rs. in lakhs) for last three years: Nil (KVK Dhubri is operating from a rented house)

| Year | Opening balance as on | Income during the | Expenditure during the | Net balance in hand as on 1 st April of each |
|--------------------------|-----------------------|-------------------|------------------------|---|
| | 1 st April | year | year | year |
| April 2019 to March 2020 | - | - | - | - |

Note: No KVK must leave this table blank

8.0 Please include information which has not been reflected above.

- (a) National Initiative on Climate Resilient Agriculture : Interventions undertaken under National Initiative on Climate Resilient Agriculture Programme are given in ANNEXURE II
- (b) Other Programmes during 2019-20:

1. CLUSTER FRONTLINE DEMONSTRATIONS:

a) CLUSTER FRONTLINE DEMONSTRATIONS OF OIL SEED (2018-19)FUNDING UNDER NMOOP:

| Sl.No | Name of crop | Area (ha) | Location | No. of beneficia | DistrictAverage YAverage(q/ha) | | e Yield 1a) | % increase in yield |
|-------|--------------|--------------|---|---------------------|--------------------------------|------|----------------|------------------------|
| | | | | ries | Yield (q/ha) | Demo | Check | |
| 1 | Niger | 10 | Kuthipara, Kodomtola, Rabantari, Sagunmari Pt-III, Koimari | 32 | 4.7 | 4.6 | 3.7 | 24 |
| 2 | Toria | 150 | Kholsatari, Kodomtola, Bhalukmari, Saltari, Ghunghunikhata, Lohajan, Charuabakra, Pasuarkhal Pt-II, Siberdabri, Ramraikuti Pt-II, Jhapusabari, Kherbari Pt-III | 626 | 8.7 | 8 | 7.5 | 7 |

Economics of Cultivation:

| Сгор | Gross Cost(Rs) | | Gross Return (Rs) | | Net Return (Rs) | | BC ratio | |
|-------|----------------|----------|-------------------|----------|-----------------|----------|----------|-------|
| | Demo | Check | Demo | Check | Demo | Check | Demo | Check |
| Niger | 12000.00 | 11000.00 | 18600.00 | 15400.00 | 6600.00 | 4400.00 | 1.55 | 1.40 |
| Toria | 18750.00 | 18000.00 | 34800.00 | 31600.00 | 16000.00 | 13600.00 | 1.86 | 1.76 |

b) Cluster Frontline Demonstrations of PULSE(2018-19) FUNDING UNDER NFSM:

| Sl.No | Name of crop | Area | Location | No. of | District | Average Yield (q/ha) | | % increase |
|-------|---------------------------|------|--|---------------|----------------------------|----------------------|-------|------------|
| | | (ha) | | beneficiaries | Average Yield (q/ha) | Demo | Check | in yield |
| 1 | Blackgram (Var. Beki) | 10 | Sasargaon Pt-I, Dautpara, Gaurangtari Pt-II, Bakuabhangi Pt-II, Haraltari, Saltari, | 63 | 8.1 | 7.2 | 6.8 | 5.88 |
| 2 | Lentil (Var. KLS- 218) | 20 | Nayapara, Alengmari, Singimari, Koimari, Sagunmari Pt-III, | 59 | 9.0 | 8.89 | 7.8 | 13.97 |

Economics of Cultivation:

| Crops | Gross Cost | t(Rs) | Gross Ret | turn (Rs) | Net Return (Rs) | | BC ratio | |
|------------------|------------|----------|-----------|-----------|-----------------|----------|----------|-------|
| | Demo | Check | Demo | Check | Demo | Check | Demo | Check |
| Blackgram (Beki) | 15842.00 | 13500.00 | 43350.00 | 35190.00 | 27508.00 | 21690.00 | 2.73 | 2.60 |
| Lentil (KLS-218) | 23565.00 | 21625.00 | 44450.00 | 38600.00 | 20885.00 | 16975.00 | 1.88 | 1.78 |

2. Wheat FLD (From Indian Institute of Wheat and Barley Research, Karnal):

| Sl.No | Name of crop | Variety | Area(Ha) | Location | No. of beneficiaries |
|-------|--------------|-----------|----------|-------------------------------------|----------------------|
| 1 | Wheat | (HD 3086) | 9.6 | P.Medhipara, Kuthipara, Kholisatari | 51 |

3. PKVY Demonstration :

| Sl. No | Name of crop | Area (ha) | Location | No. of beneficiaries | Average Yield (q/ha) |
|--------|--------------|--------------|------------------------|----------------------|----------------------|
| 1. | Toria | 20 | Gaurangtari, Rabantari | 47 | 9.5 |

4. FLD ON POTATO

| Sl. No | Сгор | Variety | Area (Ha) | No. of Beneficiary | Average Yield (q/ha) |
|-----------|--------|-------------|--------------|--------------------|----------------------|
| 1 | Potato | Kufri Jyoti | 1.9 | 83 | 155 q/ha |
| | | Kufri Bahar | 1.9 | 50 | 165 q/ha |

5. Demonstration under APART, KVK, Dhubri

| Year | Crop | Variety | Total area (ha) | No. of beneficiary | Yield (t/ha) | Remarks if any |
|---------|--------------|----------------|-----------------|--------------------|---------------------|----------------|
| 2018-19 | Summer Paddy | Bina Dhan 11 | 28.94 | 72 | 5.6 | |
| 2019-20 | Sali Paddy | Ranjit sub1 | 261.25 | 667 | 5.6 | |
| | | Swarna sub1 | | | 5 | |
| | | Bahadur sub1 | | | 5.4 | |
| 2019-20 | Summer Paddy | Improved paddy | 18.86 | 35 | At harvesting stage | |
| | | seed | | | | |
| 2019-20 | Blackgram | IPU 02-43 | 6.25 | 35 | 0.86 | |
| | (Kharif) | | | | | |
|---------|-----------------------|-----------|-------|----|------|--|
| 2019-20 | Lentil | KLS 218 | 6.25 | 23 | 0.98 | |
| 2019-20 | Rapeseed & Mustard | NRCHB-101 | 11.25 | 39 | 1.27 | |
| 2019-20 | Maize | Bio-9637 | 6.25 | 29 | 6.2 | |
| 2019-20 | Brinjal | Hybrid-33 | 1.25 | 5 | 9.2 | |
| 2019-20 | Cauliflower | Madhuri | 1.25 | 5 | 15.1 | |

6. Demonstration under NEH Components :

| Сгор | Variety | Technology demonstration | Area (ha) | No. of farmers | | | Yield | | Econon | nics of Loca | l Check (R | s./ha) | Econor | nics of Dem | onstration | (Rs./ha) |
|-------------|------------|------------------------------------|--------------|-------------------|--------------------------|----------------|---------------|----------------------------|---------------|-----------------|---------------|-------------|---------------|-----------------|---------------|-------------|
| | | | | | Local check (q/ha) | Demo (q/ha) | % increase | District Avg. (q/ha) | Gross Cost | Gross return | Net Return | BC ratio | Gross Cost | Gross return | Net Return | BC ratio |
| Maize | HQPM- 1 | Improved package of practice | 16.44 | 53 | 25.3 | 30 | 18.58 | 29.11 | 40300 | 72600 | 32300 | 1.8 | 39000 | 69000 | 30000 | 2.3 |
| Chilli | G-4 | Improved package of practice | 0.13 | 2 | 75 | 84 | 12 | 8.86 | 55400 | 157500 | 102100 | 2.84 | 52300 | 158000 | 105700 | 3.02 |
| Brinjal | PH-5 | Improved package of practice | 0.13 | 3 | 200 | 225 | 12.5 | - | 53600 | 133200 | 79600 | 2.49 | 56100 | 141300 | 85200 | 2.52 |
| Cauliflower | MOTI | Improved package of practice | 0.13 | 3 | 150 | - | - | - | 52500 | 123600 | 71100 | 2.35 | - | - | - | - |
| Garden Pea | Arkel | Improved package of practice | 4.53 | 38 | 20.8 | 22.4 | 7.69 | - | 20700 | 37440 | 16740 | 1.81 | 19540 | 40300 | 20760 | 2.06 |

Note : The vegetable cauliflower was damaged due to premature curd formation

7. Demonstration programme under SCSP component 2019-20 :

| Sl. No | Сгор | No of beneficiaries | No of village | Area (ha) / Nos |
|--------|---|---------------------|---------------|-----------------|
| 1 | Arecanut | 4 | 1 | 0.4 |
| 2 | Coconut | 1 | 1 | 0.13 |
| 3 | Assam Lemon | 8 | 1 | 0.65 |
| 4 | Improved poultry (Kamrupa) | 20 | 2 | 300 birds |
| 5 | Improved Duck (Chara chemballi/ White Pekin) | 20 | 1 | 400 birds |

8. Other Demonstration programme 2019-20 :

| Sl. No | Сгор | No of beneficiaries | No of village | Area (ha) / Nos |
|--------|--------------------------------|---------------------|---------------|-----------------|
| 1 | Turmeric (Var. Megha turmeric) | 4 | 1 | 0.13 |
| 2 | Banana (Var. Malbhog) | 1 | 1 | 0.13 |

9. Adopted village :

Under Prime Minister's Mera Gaon Mera Gaurav Programme)

| Village I | : Futkibari |
|-------------|---------------|
| VillageII | : Bhakatgaon |
| Village III | : Charuabakra |

- Village IV : Laliapara
- Village V : Jamduar

Village adopted for Doubling Farmers Income by 2022:

Village I: Paschim Medhipara Village 2: Ghunghunikhata

Village adopted under NICRA Project:

Village1. Udmari Pt IV Village2. Udmari Pt V Village3. Udmari Pt III Village4. Barshi Pt. I

8.1 Constraints

(a) Administrative

• Lack of permanent office building and other infrastructure facilities hinders smooth functioning

of KVK activities

(b) Financial

• Allocation of fund for trainee's meal and training material is not sufficient.

* Release of fund lately causes problem in smooth conducting of the programme

(c) Technical

• Other than mandated activities affect normal function.

• Shortage of SMS creates problems in proper implementation of the programmes

• Information in respect of recent technology or technology in the pipeline for various OFT and FLD programmes are lacking.

(C. K. Deka) Sr. Scientist & Head KVK, Dhubri

ANNEXURE-II

Project : National Initiative on Climate Resilient Agriculture

Technology Demonstrations under different Modules (2019-20)

Name of the KVK and village:- KVK, Dhubri Villages: Udmari Pt-III, IV & V and Barshi Pt.-I

Module-1: Natural Resource Management Interventions

| Interventions | Technology demonstrate d along with | Critical inputs provided | No. of farmers involved in | Area under the vill | r practice in age (ha) | Mea indi Crop | surable cators yields* | Econo | omics of ((Rs. (Aver | lemonstr /ha) rage) | ation |
|---|---|--|----------------------------------|------------------------|---------------------------|---------------------|------------------------------|-------------------|-----------------------------|---------------------------|---------|
| | the crop and variety* | (Machiner y, cost for renovation | the demonstratio n | | | (0 (Av | l/ha) erage) | Gros s Cost | Gross Retur n | Net Retur n | BC R |
| | | , irrigation systems, | | After | Before | Dem | Local | 1 | | | |
| | | seed etc) | | interventio | interventio | 0 | practic | | | | |
| In-situ moisture conservation measures (BBF/Ridge&furrow/contou r trenching/mulcing/conservat ion furrow/bunding etc) | Soil moisture conservation in colocasia using straw mulch | Fertilizers | 6 | 0.53 | <u>-</u> | - | - - | | Ong | oing | |
| Water harvesting and recycling for supplemental irrigation (Community ponds/farmponds/jalkunds/ checkdams/polybag checkdams/wells etc) | | | | | | | | | | | |
| Improved drainage in flood prone areas | | | | | | | | | | | |
| Conservation tillage where appropriate like zero tillage/ minimum tillage etc | | | | | | | | | | | |
| Artificial ground water | | | | | | | | | | | |

| recharge measures | | | | | | | | | | |
|----------------------------|-------------|----------|----|----|---|---|---|-----|------|--|
| Water saving irrigation | | | | | | | | | | |
| methods | | | | | | | | | | |
| (Drip/sprinkler/raingun | | | | | | | | | | |
| etc) | | | | | | | | | | |
| Crop residue incorporation | | | | | | | | | | |
| instead of burning | | | | | | | | | | |
| Low cost vermicompost | Low cost | Bamboo, | 10 | 10 | - | - | - | Ong | oing | |
| | raised base | Plastic, | | | | | | | | |
| | vermi- | Mother | | | | | | | | |
| | composting | culture | | | | | | | | |
| | unit | | | | | | | | | |

Module 2: Crop Production Interventions

| Intervention | Technolog | Critical | No. of | Are | Measu | rable | % | Econom | ics of den | nonstratio | on | Econon | nics of L | ocal (Rs./ | ha) |
|----------------|--------------|------------|--------|------|----------------------|---------|-------|----------|------------|------------|------|--------|-----------|------------|------|
| S | У | input | farmer | a | indicat | tors of | incre | (Rs./ha) | | | | | | | |
| | demonstr | (Variety, | | (ha) | yield [*] (| q/h) | ase | | 1 | 1 | 1 | | 1 | 1 | |
| | ate | Fertilizer | | | Dem | Loca | | Gross | Gross | Net | BC | Gross | Gross | Net | BC |
| | | / | | | 0 | 1 | | Cost | Retur | Retur | R | Cost | Retur | Retur | R |
| | | Chemical | | | | | | | n | n | | | n | n | |
| | | s doses,) | | | | | | | | | | | | | |
| Introducing | Scaling up | Seed, | 46 | 10 | 42.3 | 38.2 | 10.73 | 30350. | 48645. | 18295. | 1.60 | 28500 | 43930/ | 15430/ | 1.54 |
| flood tolerant | of | Urea, | | | | (Ranj | | 00 | 00 | 00 | | /- | - | - | |
| varieties | submergen | SSP, | | | | it) | | | | | | | | | |
| | ce tolerant | MOP & | | | | | | | | | | | | | |
| | varieties of | Plant | | | | | | | | | | | | | |
| | rice | Protection | | | | | | | | | | | | | |
| | 'Ranjit sub | Chemicals | | | | | | | | | | | | | |
| | 1' in rice | | | | | | | | | | | | | | |
| | toria | | | | | | | | | | | | | | |
| | cropping | | | | | | | | | | | | | | |
| | system of | | | | | | | | | | | | | | |
| | flash flood | | | | | | | | | | | | | | |
| | affected | | | | | | | | | | | | | | |
| | areas | | | | | | | | | | | | | | |
| | Demonstra | Seed, | 27 | 5.0 | 41.8 | 37.6 | 11.17 | 30350. | 48070. | 17720. | 1.58 | 28500 | 43240/ | 14740/ | 1.51 |
| | tion of | Urea, | | | | (Ranj | | 00 | 00 | 00 | | /- | - | | |
| | submergen | SSP, | | | | it) | | | | | | | | | |

| | ce tolerant | MOP & Plant | | | | | | | |
|---------------|---------------|----------------|--|--|--|--|--|--|--|
| | rice | Protection | | | | | | | |
| | 'Bahadur | Chemicals | | | | | | | |
| | Sub -1 ' in | Chemieais | | | | | | | |
| | rice toria | | | | | | | | |
| | cropping | | | | | | | | |
| | system of | | | | | | | | |
| | flash flood | | | | | | | | |
| | affected | | | | | | | | |
| | areas | | | | | | | | |
| Introducing | | | | | | | | | |
| of short | | | | | | | | | |
| duration | | | | | | | | | |
| varieties | | | | | | | | | |
| Introducing | | | | | | | | | |
| drought | | | | | | | | | |
| tolerant | | | | | | | | | |
| Varieties | | | | | | | | | |
| Introducing | | | | | | | | | |
| tolorent | | | | | | | | | |
| varieties | | | | | | | | | |
| Advancemen | | | | | | | | | |
| t of planting | | | | | | | | | |
| dates of rahi | | | | | | | | | |
| crops in | | | | | | | | | |
| areas with | | | | | | | | | |
| terminal heat | | | | | | | | | |
| stress | | | | | | | | | |
| Water saving | | | | | | | | | |
| paddy | | | | | | | | | |
| cultivation | | | | | | | | | |
| methods | | | | | | | | | |
| (SRI, | | | | | | | | | |
| aerobic, | | | | | | | | | |
| direct | | | | | | | | | |
| seeding) | | | | | | | | | |

| Frost | | | | | | | | | | | | | | | |
|------------------------|-------------|------------|----|-----|------|------|-------|--------|--------|--------|------|---------|-------|--------|------|
| management | | | | | | | | | | | | | | | |
| 1n h anti avaltarna | | | | | | | | | | | | | | | |
| through | | | | | | | | | | | | | | | |
| fumigation | | | | | | | | | | | | | | | |
| Community | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| deleved | | | | | | | | | | | | | | | |
| monsoon | | | | | | | | | | | | | | | |
| Custom | | | | | | | | | | | | | | | |
| hiring centres | | | | | | | | | | | | | | | |
| for timely | | | | | | | | | | | | | | | |
| nlanting | | | | | | | | | | | | | | | |
| Location | | | | | | | | | | | | | | | |
| specific | | | | | | | | | | | | | | | |
| intercropping | | | | | | | | | | | | | | | |
| systems with | | | | | | | | | | | | | | | |
| high | | | | | | | | | | | | | | | |
| sustainable | | | | | | | | | | | | | | | |
| yield index | | | | | | | | | | | | | | | |
| Crop | Introductio | Seed, | 32 | 5.0 | 8.65 | 6.78 | 27.58 | 20900. | 34600. | 13700. | 1.66 | 19230.0 | 26960 | 7730.0 | 1.40 |
| diversificatio | n of high | Urea, | | | | | | 00 | 00 | 00 | | 0 | .00 | 0 | |
| n | yielding | SSP, | | | | | | | | | | | | | |
| | variety of | MOP, | | | | | | | | | | | | | |
| | Toria 'TS- | Borax & | | | | | | | | | | | | | |
| | 46' | Plant | | | | | | | | | | | | | |
| | | Protection | | | | | | | | | | | | | |
| | | Chemical | | | | | | | | | | | | | |
| | Introductio | Seed, | 32 | 5.0 | 8.52 | 6.70 | 27.16 | 20900. | 34080. | 13180. | 1.63 | 19230 | 26800 | 7570.0 | 1.39 |
| | n of high | Urea, | | | | | | 00 | 00 | 00 | | .00 | .00 | 0 | |
| | yielding | SSP, | | | | | | | | | | | | | |
| | variety of | MOP, | | | | | | | | | | | | | |
| | Toria 'TS- | Borax | | | | | | | | | | | | | |
| | 38' to | Plant | | | | | | | | | | | | | |
| | compensat | Protection | | | | | | | | | | | | | |
| | e losses | & | | | | | | | | | | | | | |
| | during | Chemical | | | | | | | | | | | | | |
| | kharif crop | | | | | | | | | | | | | | |

| | Up scaling of high yielding of late sown variety of Toria 'TS- | Seed, Urea, SSP, MOP, Borax Plant | 32 | 5.0 | 8.60 | 6.12 | 40.52 | 21800. 00 | 34400. 00 | 12600. 00 | 1.57 | 20230 .00 | 24480 .00 | 4250.0 0 | 1.21 |
|--|---|---|----|-----|------|------|-------|--------------|--------------|--------------|----------|--------------|--------------|----------|------|
| | 67 to sustain livelihood in flood affected areas. | Chemical | | | | | | | | | | | | | |
| | Cultivation of Black gram in flood affected areas in post flood situation | Seed, Urea, SSP, MOP & Plant Protection Chemicals | 15 | 2.0 | | | | Crop fa | iled due t | o prolong | ed rainy | r period | | | |
| Control of stem borer | | | | | | | | | | | | | | | |
| Income generation crop | | | | | | | | | | | | | | | |
| Introducing temperature tolerant varieties | | | | | | | | | | | | | | | |
| Staggered planting rice variety during kharif season under aberrant weather condition | Up scaling of delayed planting rice variety 'Gitesh' under aberrant weather condition | Seed, Fertilizer & Plant Protection Chemicals | 26 | 5 | 38.9 | 28.2 | 37.94 | 30500. 00 | 44735. 00 | 14235. 00 | 1.47 | 28800/ | 3243 0/- | 3630/- | 1.13 |

| Demonstratio | Summer | Seed, | 36 | 5.0 | - | - | - | Ongoing |
|--------------|--------------|------------|----|-----|---|---|---|---------|
| n on HYV of | rice variety | Fertilizer | | | | | | |
| summer rice | Bina dhan | & Plant | | | | | | |
| | 11 to | Protection | | | | | | |
| | escape | Chemicals | | | | | | |
| | flood | | | | | | | |

*Make a separate row for each crop and variety demonstrated

* Good Relevant photographs

Module-3: Livestock & Fisheries

| Interventions | Technology demonstrated | Critical input (Variety, Breed, etc) | No. of farmers | Unit/ No. / Area (ha) | Measu indicat outp | rable ors of ut [*] | % inc rea se | Economics of demonstration (Rs./ha ea | | ha) | ia) Economics (Local (Rs./h | | |)f a) | |
|--|----------------------------|--|-------------------|--------------------------------|--------------------------|------------------------------------|-----------------------|--|---------------------|-------------------|---------------------------------|---------------------------|-------------------------------------|-------------------------------|-------------|
| | | | | | Demo | Local | | Gro ss Cos t | Gross Retur n | Net Retu rn | B C R | Gr os s Co st | G ro ss R et ur n | N et R et ur n | B C R |
| Use of community lands for fodder production during droughts / floods | | | | | | | | | | | | | | | |
| Improved fodder/feed storage methods | | | | | | | | | | | | | | | |
| Preventive vaccination | | | | | | | | | | | | | | | |
| Improved shelters for reducing heat stress in livestock | | | | | | | | | | | | | | | |

| Introduction of improved | | | | | | | | | | | | |
|--------------------------|----------------|--------------------|---|-----------|---|---|---|--|-----|-------|--|--|
| breeds | | | | | | | | | | | | |
| Integrated duck | Demonstration | Cost of duck | 2 | 2/ 0.5 ha | - | - | - | | Ong | going | | |
| cum fish | on Integrated | shed, fingerlings, | | | | | | | | | | |
| farming | duck cum fish | ducklings, feed | | | | | | | | | | |
| | farming | etc. | | | | | | | | | | |
| | | | | | | | | | | | | |
| Others (Pl. | Low cost | Cost of Bamboo, | 5 | 5 | - | - | - | | Ong | going | | |
| specify) | improved | roof etc | | | | | | | | | | |
| Low cost | Mechang type | | | | | | | | | | | |
| shelter for | poultry house | | | | | | | | | | | |
| poultry | for flood | | | | | | | | | | | |
| | affected area | | | | | | | | | | | |
| Low cost | Low cost | Cost of Bamboo, | 4 | 4 | - | - | - | | Ong | going | | |
| shelter for goat | improved | roof etc | | | | | | | | | | |
| | Mechang type | | | | | | | | | | | |
| | Goat house for | | | | | | | | | | | |
| | flood affected | | | | | | | | | | | |
| | areas | | | | | | | | | | | |

* Output is in terms of litres (*milk), number (eggs), kgs (meat), kg/ha (fodder yield)

* Good relevant photographs

Module-4: Institutional Interventions

| Interventions | | Detail | s of activity | Critical input | No. of | Unit / |
|---------------|--|---|---|---|---------------------|-----------------------|
| | Name of crops /varieties Commodity groups / Implements | Quantity produced/ Number / Rent / Charges | Technology used in seed / fodder bank & function of groups | (Breed / Variety / Medicine doses) | farmers involved | No. / Area (ha) |
| Seed bank | Paddy variety Ranjit Sub1 | 86.0 | Seed production | Seed, Urea, SSP, MOP and PP Chemicals | 8 | 2.0 |
| | Paddy variety | 73.4 | Seed production | Seed, Urea, SSP, | 13 | 2.0 |

| | Naveen | | | MOP and PP | | |
|-----------------------|----------------------------|--------------|---|------------------|----|------|
| | | | | Chemicals | | |
| | Paddy variety | 77.2 | Seed production | Seed. Urea, SSP. | 15 | 2.0 |
| | Gitesh | | | MOP and PP | 10 | |
| | Gittish | | | Chemicals | | |
| | Toria variety TS-38 | 17.3 | Seed production | Seed, Urea, SSP, | 5 | 2.0 |
| | | | 1 | MOP and PP | - | - |
| | | | | Chemicals | | |
| | Toria variety TS-67 | 16.8 | Seed production | Seed, Urea, SSP, | 8 | 2.0 |
| | | | 1 | MOP and PP | - | - |
| | | | | Chemicals | | |
| Fodder bank | | | | | | |
| Community Nursery | Establishment of | Transplanted | Seedling production and distribution as | Seed, land | 9 | 0.60 |
| | community nursery | area 5.0 ha | contingency measure | preparation cost | | |
| | in flood affected | | | | | |
| | area with short | | | | | |
| | duration rice variety | | | | | |
| <u> </u> | | | | | | |
| Commodity groups | - | - | - | - | - | - |
| Custom hiring centre | Power tiller, | - | Utilize the agricultural machineries and | - | 63 | 1 |
| | sprayer, pump set, | | implements for cultivation of crops on hiring | | | |
| | reaper, plant | | basis | | | |
| | protection kit, hoe, | | | | | |
| | sickle, rack, wheel | | | | | |
| | hoe, SRI marker, | | | | | |
| | weighing balance, | | | | | |
| | power sprayer, | | | | | |
| | drum, bucket, rope, | | | | | |
| | measuring cylinder, | | | | | |
| ~ !! ! ! ! | Manual Duster etc. | | | | | |
| Collective marketing | - | - | - | - | - | - |
| Climate literacy | | | | | | |
| through a village | | | | | | |
| level weather station | | | | | | |
| Any other (Pl. | - | - | - | - | - | - |
| specity) | | | | | | |

*Good Relevant Photographs

| Sl. | Thematic area | Title of training | No. of Courses | No. of beneficiaries | | Dat | e |
|-----|----------------------|--|----------------|----------------------|--------|----------|----|
| No. | | | | Male | Female | from | То |
| 1 | Crop diversification | Crop diversification through oilseed crop for sustainable livelihood | 1 | 16 | 32 | 16.03.20 | - |
| 2 | INM | Soil health card based INM in summer rice to increase crop productivity in changing climatic condition | 1 | 33 | 11 | 18.03.20 | - |

• Good relevant Photographs

Module-6: Extension Activities

| Name of the activity | Details about the | Number of | Time of the programme | No. of be | neficiaries | Remarks |
|----------------------|----------------------|------------|---------------------------------|-----------|-------------|-----------------|
| | activity | programmes | conducted (Fromto -) | Male | Female | |
| Exposure visit | Exposure visit of | 1 | 20 th November, 2018 | 20 | 24 | Students were |
| | School Student to | | | | | exposed to |
| | NICRA village | | | | | basic |
| | | | | | | agriculture |
| Kisan Mela | Celebration of Kisan | 1 | 5 th December, 2019 | 170 | 130 | Farmer were |
| | Mela on the occasion | | | | | acquainted |
| | of World Soil Day | | | | | with new agril. |
| | | | | | | technologies |
| Strengthening SHGs | | - | | | | |
| Strengthening kisan | | | | | | |
| clubs | | - | | | | |
| Integrated farming | | | | | | |
| system | | | | | | |
| | Field Day on | 1 | 20 th November, 2018 | 21 | 30 | Farmer were |
| Field day | Staggered planting | | | | | convince with |
| | rice variety Gitesh | | | | | the result of |
| | | | | | | the technology |

| | Field Day on Submergence tolerant rice variety Ranjit | 1 | 20 th November, 2018 | 21 | 30 | -do- |
|--------------------------|---|---|---|----|----|---|
| Method demonstrations | Root dip treatment in paddy | 2 | 2 nd July, 2019 & 8 th July, 2019 | 52 | - | Conducted for skill development of farmers |
| Awareness | | | | | | |
| Others (if any) | | | | | | |
| Mahila Kisan Divas | | | | | | |

Note: 1) Please don't change format heads. 2) All the required specific information should be given. 3) Good relevant photographs

| 7. Rainfall characteristics f | for the year | 2019-20 |
|-------------------------------|--------------|---------|
|-------------------------------|--------------|---------|

| Kharif 20 |)19 | JUNE | JULY | AUGU ST | SEPTE MBER | OCTOB ER | NOVEM BER | DECEM BER | JANUA RY | FEBRU ARY | MARC H | APRIL | ANNUA L |
|--|-------------------------|-------|-------|------------|---------------|-------------|--------------|--------------|-------------|--------------|-----------|-------|------------|
| Rainfall received i (mm) | in | 297.8 | 354.1 | 68.9 | 340.3 | 130.2 | 0.6 | 0 | 0 | 2.3 | 29.6 | - | 1721.2 |
| No. of dry | >10 days | - | - | - | - | | 02 | 03 | 03 | 02 | - | - | 10 |
| spells during | >15 days | - | - | - | - | - | - | 02 | 02 | 01 | - | - | 05 |
| kharif season 2018 | >20 days | - | - | - | - | - | 01 | 01 | 01 | - | - | - | 03 |
| No. of intensiv e rain spells (2018) | >60 mm per day | 02 | 02 | - | 02 | - | - | - | - | - | - | - | 06 |
| Water log observed | gging (days) | - | - | - | - | - | - | - | - | - | - | - | - |

| 8. Impact of con | tingency measure | s (Relate the d | ry spells with cro | op and their growth stages |): |
|------------------|------------------|-----------------|--------------------|----------------------------|----|
| 1 | o v | (| · I | | / |

| S. No | Dry spell (no. of days) | Duration (from to) | Crop name* | Crop stage | Intervention taken up | Number farmers involved | ofImpact on (q/ha) Farmers' practice | crop yields Demo |
|-------|--------------------------|--|----------------|---|--------------------------|-------------------------------|---|---------------------|
| 1 | 30 days | 1^{st} Dec -31^{st} Dec | Toria | Active vegetative stage | One light irrigation | 52 | - | - |
| 4 | 31 days | 1 st Jan – 31 st Jan | Toria | Siliqua formation stage | One light irrigation | 41 | 7.1 | 6.7 |
| | | | Summer rice | Seedling transplanted at main field | Irrigation | 60 | - | - |
| 5 | 16 days | 7 th Feb – 22 nd Feb | Summer rice | Tillering stage | Irrigation | 51 | - | - |

* List the interventions taken up for each crop

9. Adoption of successful interventions in the NICRA village & the adjoining villages

| Successful | Extent of adoption in the village in ha. | | | | | | | | | | | | | | | |
|--|--|----|----|-----|----|----|-----|----|----|----|---|----|----|----|----|-----|
| interventions including crops and varieties | 201 | 12 | 20 |)13 | 20 | 14 | 201 | 15 | 20 | 16 | 20 | 17 | 20 | 18 | 20 |)19 |
| Demonstration on Submergence tolerance paddy variety 'Swarna Sub1' | _ | - | 2 | - | 4 | - | 5 | - | 6 | - | 1630 (Dept of Agriculture Scheme) 857.5 (Seed Village Scheme) 100 (Assam Seed Certification Scheme) | - | 15 | - | 19 | 5 |

| Demonstration on staggered planting paddy variety 'Gitesh' | 0.27 | - | 2 | - | 4 | - | 4 | - | 6 | - | 8 | - | 8 | - | 16 | 8 |
|--|------|---|----|---|----|---|-------|---|-----|---|----|-----------------------------|----|------|----|----|
| Demonstration on semi deep water Rice Variety "Dipholu" | - | - | - | - | - | - | - | - | 0.4 | - | 5 | - | 8 | - | 11 | 3 |
| Demonstration on <i>Boro</i> paddy variety 'Joymati' | 8 | - | 10 | - | 12 | - | 21.21 | - | 22 | - | 25 | - | 28 | - | 35 | 18 |
| Crop Diversification with Toria variety "TS-36" | - | - | 5 | - | 5 | - | 8 | - | 21 | - | 25 | - | 20 | 9 | 36 | 29 |
| Crop Diversification with Toria variety "TS-46" | - | - | - | - | - | - | - | - | 5 | - | 5 | 50** (CFLD programme) | 8 | 60** | 14 | 12 |
| Crop Diversification with late sown Toria variety "TS- 67" | - | - | - | - | - | - | - | - | 5 | - | 9 | - | 12 | 7 | 27 | 9 |

* Deptt of Agriculture, Assam has taken up demonstration on Submergence tolerance rice variety 'Swarna sub1' ** CFLD programme was taken up by KVK, Dhubri

10. Popularization of Climate Resilient Varieties

| Crop* | Climate Resilient Varieties incorporated in the <i>Kharif 2018</i> plan of the State Department | Approx. area brought under the variety by the state department during the K <i>harif</i> 2018 (ha) |
|-------|---|--|
| Rice | Submergence tolerance rice variety 'Swarna sub1' | 152 |

| | Submergence tolerance rice variety 'Bahadur Sub 1' | 60 |
|------------|--|----|
| | Submergence tolerance rice variety 'Ranjit Sub 1' | 95 |
| | Staggered planting rice variety ' Gitesh' | 23 |
| | Summer rice variety Joymati | 75 |
| Toria | Timely sown Toria Variety "TS-36" in Rice (short duration) - Toria cropping sequence | 25 |
| | Timely sown Toria Variety "TS-46" in Rice (short duration) - Toria cropping sequence | 85 |
| | Late sown Toria Variety "TS-67" in Rice (long duration) - Toria cropping sequence | 65 |
| Black Gram | HYV Black gram variety Pratap & PU-31 | 80 |

11. Awards Received during the year for the work related to NICRA : NIL

| Name of the award | Given by whom | When the award was given |
|-------------------|---------------|--------------------------|
| | | |

12. Distinguished visitors to the NICRA village during the year: Nil

| Name of the person | When the visit occurred | Significant comments/ suggestions |
|--------------------|-------------------------|-----------------------------------|
| | | |

13. Amount (Rs.) mobilized through convergence from various departments : Nil

| S. | Activity/ Intervention | Coverage | Convergence established with | Approx. amount (Rs.) |
|-----------|------------------------|----------------------------|------------------------------|----------------------|
| No. | | [No. of farmers/Area (ha)] | (Name of the programme or | mobilized |
| | | | department) | |
| | | | | |

14. Publications and other products developed during the year

| Item | Title /and Name of Journal | Authors name |
|---------|--|--|
| Leaflet | Flood tolerant rice varieties | Dr. C. K. Deka, Mr. A. Pal, Dr. R. Islam, Dr. P. Sutradhar, Mr. G. |
| | | Sharma, Mr. B. K. Das, Ms. N. Bhuyan, Ms. N. Nath, Mr. B. |
| | | Borah, Ms. K. Boruah, Mr. G. S. Bordoloi |
| | Crop diversification through HYVs of Toria | Dr. C. K. Deka, Mr. A. Pal, Dr. R. Islam, Dr. P. Sutradhar, Mr. G. |
| | | Sharma, Mr. B. K. Das, Ms. N. Bhuyan, Ms. N. Nath, Mr. B. |
| | | Borah, Ms. K. Boruah, Mr. G. S. Bordoloi |

15. Significant observations about the project/ the performance of interventions/ adoption of interventions/ livelihood improvement etc.

- 1. The farmers of NICRA village have shown interest for adopting HYV of rice like Swarna Sub 1, Ranjit Sub 1, Bahadur Sub 1, Gitesh & Dipholu (for *Sali* season) and Joymati (for *Boro* season)
- 2. Also adopting HYV Toria varieties TS-38 & TS 46 (as timely sown crop) and TS-67 (as late sown crop)
- 3. Few farmers are maintaining seed bank of rice varieties Swarna Sub1, Gitesh & Dipholu and Toria variety TS-67 and serving the fellow farmers by providing seeds, also generating subsidiary income for livelihood improvement.
- 4. Low cost raised bed vermicomposting Unit are adopted by most of the farmers of the village and nearby ones.
- 5. Low cost improved goat house and poultry house become highly popular among the farmers specially for flood affected areas
- 6. Farmers become alert for maintaining fodder bank (Hybrid Napier) for animal feed especially during the time of flood.

Farmers getting attracted towards IFS as it minimize the risk in farming.