



# **Annual Action Plan**

**(1st January 2026 - 31st December 2026)**

**KRISHI VIGYAN KENDRA, KHAGARIA**  
**(Bihar Agricultural University, Sabour, Bhagalpur)**

## **1. GENERAL INFORMATION ABOUT THE KVK**

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

| Name and address of KVK       | Telephone |     | E-Mail                                                       |
|-------------------------------|-----------|-----|--------------------------------------------------------------|
|                               | Office    | FAX |                                                              |
| KrishiVigyan Kendra, Khagaria | NA        | NA  | <a href="mailto:kvkkgaria@gmail.com">kvkkgaria@gmail.com</a> |

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

| Name and address of Host Organization                   | Telephone    |              | E mail                                                             | Website         |
|---------------------------------------------------------|--------------|--------------|--------------------------------------------------------------------|-----------------|
|                                                         | Office       | FAX          |                                                                    |                 |
| Bihar Agricultural University, Sabour, Bhagalpur, Bihar | 0641-2452611 | 0641-2452604 | <a href="mailto:deebausabour@gmail.com">deebausabour@gmail.com</a> | bausabour.ac.in |

1.2 b. Status of KVK website : Yes Date when the website last updated :- **10.02.2026**

1.2 c. No of Visitors (Hits) to your KVK website (as on today) :-

1.2 d. Status of ICT lab at your KVK :-

- a) No of PC units                               :-       **11**
- b) No of Printers                               :-       **04**
- c) Internet Connection                       :-       **Yes**

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

| Name           | Telephone / Contact |            |                                                              |
|----------------|---------------------|------------|--------------------------------------------------------------|
|                | Residence           | Mobile     | Email                                                        |
| Sri N.K. Singh | KVK, Khagaria       | 7903714090 | <a href="mailto:kvkkgaria@gmail.com">kvkkgaria@gmail.com</a> |

1.4. Year of sanction of KVK               :       **F.No. 602/2010 – AE - I**

### 1.5. Staff Position (as on 31<sup>st</sup> December 2024)

[illegible]



Dr. Anil Kumar



|    |                  |        |  |  |  |  |  |  |  |  |  |  |  |
|----|------------------|--------|--|--|--|--|--|--|--|--|--|--|--|
| 15 | Supporting staff | Vacant |  |  |  |  |  |  |  |  |  |  |  |
|----|------------------|--------|--|--|--|--|--|--|--|--|--|--|--|

**1.6. Total land with KVK (in ha) : 12.5 ha**

| S. No.       | Item                                  | Area (ha)    |
|--------------|---------------------------------------|--------------|
| 1            | Under Buildings                       | 1.00         |
| 2.           | Under Demonstration Units (NHM + IFS) | 1.50         |
| 3.           | Under (Seed Production)               | 8.00         |
| 4.           | Approach Road and others              | 2.00         |
| <b>Total</b> |                                       | <b>12.50</b> |

## 1.7 Infrastructural Development:

### A) Buildings

| S. No. | Name of building                | Source of funding |      | Stage           |                    |                   |               |                    |                        |
|--------|---------------------------------|-------------------|------|-----------------|--------------------|-------------------|---------------|--------------------|------------------------|
|        |                                 |                   |      | Complete        |                    |                   | Incomplete    |                    |                        |
|        |                                 | ICAR              | RKVY | Completion Year | Plinth area (Sq.m) | Expenditure (Rs.) | Starting year | Plinth area (Sq.m) | Status of construction |
| 1.     | Administrative Building         | ICAR              |      | 2014            | 800 m2             |                   |               |                    | Completed              |
| 2.     | Farmers Hostel                  | ICAR              |      | 2013            | 265.14 m2          |                   |               |                    | Completed              |
| 3.     | Staff Quarters (6)              | ICAR              |      | 2013            | 840 m2             |                   |               |                    | Completed              |
| 4.     | Piggery unit                    | -                 |      |                 | -                  |                   |               |                    |                        |
| 5      | Fencing                         | -                 |      |                 | -                  |                   |               |                    | Needed                 |
| 6      | Rain Water harvesting structure | -                 |      |                 | -                  |                   |               |                    |                        |
| 7      | Threshing floor                 | ICAR              |      | 2021            | 370.52 m2          |                   |               |                    | Completed              |
| 8      | Farm godown                     | ICAR              |      | 2021            | 161.75 m2          |                   |               |                    | Completed              |
| 9      | Dairy unit                      |                   |      |                 | -                  |                   |               |                    |                        |
| 10     | Poultry unit                    | Bihar Govt.       |      | 2022            | 595.5m2            |                   |               |                    | Completed              |
| 11     | Goatary unit                    |                   |      |                 | -                  |                   |               |                    |                        |
| 12     | Mushroom production unit        |                   |      |                 | 27.6 m2            |                   |               |                    | Completed              |
| 13     | Implement Shade house           | Bihar Govt.       |      |                 | 383.62 m2          |                   |               |                    | Completed              |
| 14     | Soil testing Lab                |                   |      |                 | -                  |                   |               |                    |                        |

|    |                                      |             |  |      |          |  |  |  |           |
|----|--------------------------------------|-------------|--|------|----------|--|--|--|-----------|
| 15 | Net house                            | NHM         |  |      | 500 m2   |  |  |  | Completed |
| 16 | Poly house                           | NHM         |  |      | 300 m2   |  |  |  | Completed |
| 17 | Nutri Garden                         | ICAR        |  | 2021 | 150 m2   |  |  |  | Completed |
| 18 | IFS Model                            | Bihar Govt. |  | 2021 | 1 acre   |  |  |  | Completed |
| 19 | Small Nursery Model                  | Bihar Govt. |  | 2021 | 1.0 ha   |  |  |  | Completed |
| 20 | Vermicompost Unit (SwachhataAbhiyan) | ICAR        |  | 2022 | 60 Sq.ft |  |  |  | Completed |

### B) Vehicles

| Type of vehicle             | Year of purchase | Source (ICAR/RKVY) | Cost (Rs.) | Total kms. run as on December, 2025 | Present status           |
|-----------------------------|------------------|--------------------|------------|-------------------------------------|--------------------------|
| Bolero Jeep (BR 34P 1864)   | 2012             | ICAR               | 512300.00  | 259863                              | Extremely Poor Condition |
| Tractor Mahindra (25 HP)    | 2012             | ICAR               | 434000.00  | 1851.5 hr.                          | Average Condition        |
| Tractor Holand (55 HP)      | 2022             | ICAR               | 941151.70  | 533 hr.                             | Good Condition           |
| Motorcycle 1 (BR34J - 9294) | 2015             | ICAR               | 60000.00   | 33546                               | Average Condition        |
| Motorcycle 2 (BR34J - 9295) | 2015             | ICAR               | 60000.00   | 34405                               | Average Condition        |

### C) Equipment & AV aids

| Name of equipment                            | Year of purchase | Cost (Rs.) | Present status    | Source of fund |
|----------------------------------------------|------------------|------------|-------------------|----------------|
| <b>a. Lab equipment</b>                      |                  |            |                   |                |
| GPS Navigator                                | 2016             | 17593.00   | Good              | ICAR           |
| Compound Microscope                          | 2016             | 34780.00   | Good              | ICAR           |
| Mini Soil Test Kit                           | 2017             | 170016.00  | Not working       | ICAR           |
| Augur Pipe                                   | 2020             | 200.00     | Poor Condition    | GKMS           |
| <b>b. Farm machinery</b>                     |                  |            |                   |                |
| Diesel Pump Set                              | 2012             | 39,000.00  | Not working       | ICAR           |
| Tractor                                      | 2012             | 434000.00  | Average Condition | ICAR           |
| <b>c. AV Aids</b>                            |                  |            |                   |                |
| Computer (HP), printer & scanner             | 2013             | 47,067.00  | Good              | ICAR           |
| HP Slim Desktop, 10 <sup>th</sup> Generation | 2022             | 39990.00   | Good              | ICAR           |
| Kingston 240 GB, SSD                         | 2022             | 4000.00    | Not working       | ICAR           |
| HP Slim Desktop, 10 <sup>th</sup> Generation | 2022             | 40000.00   | Good              | ICAR           |
| Kinhrdyon 240 GB, SSD                        | 2022             | 4000.00    | Good              | ICAR           |
| Sandisk 128 GB Extreme micro SD              | 2022             | 3400.00    | Not working       | ICAR           |
| ATDS Collar Microphone (UH600)               | 2022             | 24000.00   | Good              | ICAR           |
| Seagate                                      | 2022             | 6200.00    | Not working       | ICAR           |
| Laptop (15.6" Led)                           | 2022             | 65100.00   | Good              | ICAR           |
| Printer (HP Never stop)                      | 2022             | 15169.00   | Average           | ICAR           |

|                                             |      |           |             |      |
|---------------------------------------------|------|-----------|-------------|------|
| Laser)                                      |      |           |             |      |
| Speaker Ball Booster                        | 2022 | 5932.20   | Good        | ICAR |
| Xerox Machine (RICOH)                       | 2013 | 61,286.00 | Not working | ICAR |
| Digital Camera (Sony)                       | 2013 | 14,700.00 | Not working | ICAR |
| Projector                                   | 2013 | 82,968.00 | Not working | ICAR |
| Public Address System                       | 2014 | 45,000.00 | Good        | ICAR |
| HP Laptop                                   | 2014 | 45000.00  | Good        | ICAR |
| Digital Camera (Sony)                       | 2016 | 7990.00   | Not working | ICAR |
| HP Laptop                                   | 2016 | 82583.00  | Good        | RKVY |
| Computer (Dell)                             | 2016 | 90000.00  | Good        | ICAR |
| Xerox Machine (Xerox 5022) with Accessories | 2016 | 90679.00  | Not working | RKVY |
| Digital Camera (Cannon)                     | 2016 | 29600.00  | Not Working | RKVY |
| Video Camera Handy Cam (Sony)               | 2016 | 82871.00  | Good        | RKVY |
| Projector with Accessories                  | 2016 | 52000.00  | Not working | RKVY |
| CCTV                                        | 2016 | 33000.00  | Good        | ICAR |
| LED Flood Light                             | 2016 | 6500      | Good        | RKVY |
| HP Laptop with Accessories                  | 2019 | 58400     | Good        | GKMS |
| Mobile Phone (Redmi Note 5 Pro) 02 Nos.     | 2019 | 29000     | Not working | GKMS |
| Motor                                       | 2019 | 29000.00  | Good        | CRA  |
| PC Godrej Computer Table                    | 2020 | 8543.00   | Good        | ICAR |
| Godrej (3 PC)                               | 2020 | 46238.00  | Good        | ICAR |
| Godrej S/L (2 PC)                           | 2020 | 27206.00  | Good        | ICAR |
| Godrej 4 Door book case                     | 2020 | 23491.00  | Good        | ICAR |

|                                      |      |           |      |             |
|--------------------------------------|------|-----------|------|-------------|
| Godrej Table (4 PC)                  | 2020 | 69668.00  | Good | ICAR        |
| Godrej Rack                          | 2020 | 5469.00   | Good | ICAR        |
| Godrej Sofa (3 Seater)               | 2020 | 22653.00  | Good | ICAR        |
| Godrej Sofa (1Seater)                | 2020 | 14320.00  | Good | ICAR        |
| Godrej AC                            | 2020 | 37400.00  | Good | ICAR        |
| KK Enterprises, Patna ( 50 Chair)    | 2022 | 93000.00  | Good | ICAR        |
| Samsung AC                           | 2022 | 38000.00  | Good | ICAR        |
| Modern Cine sound service            | 2022 | 24000.00  | Good | ICAR        |
| Complete vision                      | 2022 | 35000     | Good | ICAR        |
| Woodland Steel Khagaria              | 2022 | 22892     | Good | ICAR        |
| Woodland Steel Khagaria              | 2022 | 13688     | Good | ICAR        |
| Banana Fiber Extraction Machine      | 2022 | 75000     | Good | ICAR        |
| Mobile (Samsung)                     | 2024 | 20000     | Good | ICAR        |
| GM AtrblastFaratta Fan (02 Pc)       | 2023 | 6525.42   | Good | Bihar Govt. |
| EPSON Projector                      | 2024 | 79000.00  | Good | Bihar Govt. |
| Mantra IRIS Biometric Scanner        | 2024 | 7300.00   | Good | ICAR Fund   |
| Brush Cutter Aspee 2 stroke sidepade | 2024 | 13,500.00 | Good | ICAR Fund   |
| HP Desktop Computer                  | 2024 | 70,000.00 | Good | ICAR Fund   |
| UPS delta Vx600 VA                   | 2024 | 2700.00   | Good | ICAR Fund   |
| Chair (04)                           | 2024 | 22,000.00 | Good | ICAR Fund   |
| Trunk (02 Pc)                        | 2024 | 9,600.00  | Good | ICAR Fund   |
|                                      |      |           |      |             |

**D) Farm implements**

| <b>Name of Implements</b>               | <b>Year of purchase</b> | <b>Cost (Rs.)</b>  | <b>Present status</b> | <b>Source of fund</b> |
|-----------------------------------------|-------------------------|--------------------|-----------------------|-----------------------|
| 9 Tine Cultivator                       | 2012                    | 22000.00           | Not working           | ICAR                  |
| Disc harrow                             | 2013                    | 44000.00           | Good                  | ICAR                  |
| Zero Till Drill Machine (9 Tine)        | 2014                    | 38,500.00          | Not Working           | ATMA                  |
| 9 Tine Cultivator                       | 2017                    | 17000.00           | Good                  | ICAR                  |
| Happy Seeder (02)                       | 2019                    | Central purchasing | Not working           | Bihar Govt.           |
| Maize Planter (CRA)                     | 2020                    | 73000.00           | Not working           | Bihar Govt.           |
| National Multi Crop Planter (11 Row)    | 2022                    | 88019.00           | Not working           | Bihar Govt.           |
| Rice Wheat Seeder (2 PC)                | 2022                    | 20000.00           | Not working           | Bihar Govt.           |
| Tractor Trolley                         | 2022                    | 179200.00          | Good                  | Bihar Govt.           |
| High Speed Hay Rack                     | 2022                    | 379724.00          | Good                  | Bihar Govt.           |
| Weighing Machine                        | 2022                    | 3800.00            | Good                  | Bihar Govt.           |
| Self Propelled vertical convener Reaper | 2022                    | 124803.00          | Not working           | Bihar Govt.           |
| Weeder&Ridger                           | 2022                    | 50910.00           | Not working           | Bihar Govt.           |
| Laser Land leveler                      | 2022                    | 272321             | Good                  | Bihar Govt.           |

|                                        |      |            |             |             |
|----------------------------------------|------|------------|-------------|-------------|
| Raised Bed Planter                     | 2022 | 88392.00   | Not working | Bihar Govt. |
| Thresher                               | 2022 | 156000.00  | Good        | Bihar Govt. |
| Straw Bailer (Shaktiman)               | 2022 | 1238980.00 | Good        | Bihar Govt. |
| National Zero Till Seed Cum Fertilizer | 2022 | 141000.00  | Not working | Bihar Govt. |
| SonalikaRotavator                      | 2022 | 108000.00  | Good        | Bihar Govt. |
| Tractor Mounted Sprayer                | 2022 | 193520.00  | Good        | Bihar Govt. |
| Drum Seeder 06 Piece                   | 2022 | 54000.00   | Not working | Bihar Govt. |
| Punching Dibbler                       | 2024 | 2155.00    | Good        | ICAR Fund   |
| Rotary Dibbler                         | 2024 | 8182.00    | Good        | ICAR Fund   |

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

| Sl.No.                           | Date       |
|----------------------------------|------------|
| 1. Scientific Advisory Committee | 22.05.2026 |

**Suggestions of SAC meeting**

| Salient Recommendations                                                                                                               | Action Taken                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| In FLD, ensure the cultivation/demonstration of sesame crop in the kharif season in place of Sabour Harshit                           | FLD on sesame has been done on 10 farmers field                                                                        |
| Ensure the training of extension workers in the KrishiVigyan Kendra (KVK).                                                            | KVK Khagaria successfully organized the extension functionaries training during financial year 2025-26 at KVK premises |
| Ensure that 8 rural youth training should be conducted every year of which 4 should be before Kharif season and 4 before Rabi season. | Total 08 assigned training of RY has been conductedby KVK Khagaria                                                     |

|                                                                                                                                                                                                                    |                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| At the KrishiVigyan Kendra, arrange training on animal husbandry with the help of the Animal Husbandry Department.                                                                                                 | At the KrishiVigyan Kendra, 02 training on animal husbandry has been conducted                          |
| The Computer Programmer is instructed to regularly update the farmers' information on the KrishiVigyan Kendra's Kisan Sarthiportal/website and increase the number of farmers on the portal to more than one lakh. | The farmer registration in the Kisan Sarthi portal is in progress, we have reached upto 31,000 farmers. |
| Ensure that the list of question-answer programs organized by BAU, Sabour is made available to the farmers.                                                                                                        | List of question-answer programs organized by BAU, Sabour has been made available to the farmers.       |

## 2. DETAILS OF MICRO-FARMING SITUATIONS OF THE DISTRICT

### 2.1 Micro-farming situations

#### a) Characteristics

| S.No. | Agro-Ecological situations (AES) | Existing Farming System (Crop+livestock+others) | Major soil types       |
|-------|----------------------------------|-------------------------------------------------|------------------------|
| 1     | AES 1 (Name)                     | Rice-Wheat/Maize                                | Sandy Loam & Clay Soil |
| 2     | AES 2 (Name)                     | Maize- Wheat/Mustard-Green gram                 | Sandy Loam & Clay Soil |
| 3     | AES 3 (Name)                     | Rice-Wheat-Green gram                           | Sandy Loam & Clay Soil |

#### b) Land Characteristics

| S.No | Agro-Ecological Situation (AES) | Topography                                                             | Drainage                                                 |
|------|---------------------------------|------------------------------------------------------------------------|----------------------------------------------------------|
| 1.   | AES-1 (Name)                    | Surrounding Rivers, Alluvial Plains<br>Flooding Elevation Swampy areas | Ganga, Koshi, Budhigandak,<br>Kamla, Blan, Kareh&Bagmati |
| 2.   | AES-2 (Name)                    | Surrounding Rivers, Alluvial Plains<br>Flooding Elevation Swampy areas | Ganga, Koshi, Budhigandak,<br>Kamla, Blan, Kareh&Bagmati |

|    |              |                                                                        |                                                   |
|----|--------------|------------------------------------------------------------------------|---------------------------------------------------|
| 3. | AES-3 (Name) | Surrounding Rivers, Alluvial Plains<br>Flooding Elevation Swampy areas | Ganga, Koshi, Budhigandak,<br>Kamla, Blan&Bagmati |
|----|--------------|------------------------------------------------------------------------|---------------------------------------------------|

**c) AES-wise major problems**

| S.No | Agro-Ecological Situation (AES) | Major problems        | Rank |
|------|---------------------------------|-----------------------|------|
| 1.   | AES-1 (Name)                    | Flood & droughts      | 1    |
|      |                                 | Inadequate irrigation | 2    |
|      |                                 | Soil Degradation      | 3    |
| 2.   | AES-2 (Name)                    | Flood & droughts      | 1    |
|      |                                 | Inadequate irrigation | 2    |
|      |                                 | Soil Degradation      | 3    |
| 3.   | AES-3 (Name)                    | Flood & droughts      | 1    |
|      |                                 | Inadequate irrigation | 2    |
|      |                                 | Soil Degradation      | 3    |

**2.2. Area, Production and Productivity of major crops cultivated in the district (2025)**

| S. No | Crop          | Area (ha) | Production (MT.) | Productivity (Qt./ha) | Yield gap (q/ha) with respect to demo of last year | Yield gap (q/ha) with respect to potential yield |
|-------|---------------|-----------|------------------|-----------------------|----------------------------------------------------|--------------------------------------------------|
| 1     | Rice          | 33575     | 95252            | 28.37                 | (-) 14.98                                          | (-) 21.63                                        |
| 2     | Maize         | 18195     | 39483.15         | 21.70                 | (-) 18.15                                          | (-)19.30                                         |
| 3     | Urad          | 853       | 1012             | 11.86                 | NA                                                 | (-)01.14                                         |
| 4     | Small Millets | 653       | 491              | 7.52                  | NA                                                 | (-)01.48                                         |
| 5     | Sunflower     | 653       | 968              | 14.82                 | (-) 2.88                                           | (-)3.18                                          |
| 6     | Ragi          | 82        | 77               | 9.3                   | (-) 2.10                                           | (-)2.50                                          |

|    |          |       |        |        |           |          |
|----|----------|-------|--------|--------|-----------|----------|
| 7  | Soybean  | 3000  | 1692   | 5.64   | (-) 6.01  | (-)14.36 |
| 8  | Turmeric | 15    | 382    | 255.00 | NA        | NA       |
| 9  | Maize    | 58708 | 444595 | 75.73  | (-) 19.77 | (-)24.27 |
| 10 | Wheat    | 31863 | 113687 | 35.68  | (-) 6.50  | (-)9.32  |
| 11 | Barley   | 124   | 203    | 16.37  | NA        | (-)3.59  |
| 12 | Gram     | 18    | 16     | 8.81   | NA        | (-)9.31  |
| 13 | Arahar   | 144   | 218    | 15.13  | NA        | (-)10.38 |
| 14 | Kheshari | 116   | 76     | 6.55   | NA        | (-)5.18  |
| 15 | Lentil   | 437   | 360    | 8.23   | (-) 2.44  | (-)9.77  |
| 16 | Pea      | 1026  | 1151   | 11.22  | NA        | (-)8.78  |
| 17 | Kulthi   | 502   | 437    | 8.70   | NA        | (-)01.30 |
| 18 | Maize    | 8415  | 32776  | 38.94  | NA        | (-)08.84 |
| 19 | Moong    | 1153  | 738    | 6.40   | (-) 2.16  | (-)03.41 |
| 20 | Mango    | 1642  | 15,763 | 96     | NA        | NA       |
| 21 | Litchi   | 318   | 1100   | 34.6   | NA        | NA       |
| 22 | Guava    | 411   | 2585   | 62.9   | NA        | NA       |
| 23 | Banana   | 1310  | 58,950 | 450    | 129.47    | (-)20.53 |
| 24 | Papaya   | 330   | 24750  | 750    | NA        | NA       |
| 25 | Brinjal  | 1250  | 31,390 | 251.12 | NA        | NA       |

|    |             |      |            |         |    |    |
|----|-------------|------|------------|---------|----|----|
| 26 | Okra        | 1226 | 19,866.10  | 162.039 | NA | NA |
| 27 | Potato      | 4109 | 10,8654.29 | 264.43  | NA | NA |
| 28 | Tomato      | 1201 | 30,346     | 252.68  | NA | NA |
| 29 | Cauliflower | 1259 | 20,353.12  | 161.66  | NA | NA |
| 30 | Garlic      | 37   | 83         | 22.50   | NA | NA |
| 31 | Louki       | 442  | 71,60.4    | 148.75  | NA | NA |
| 32 | Parwal      | 450  | 70,60.5    | 156.90  | NA | NA |

Source : District agriculture department.

### 2.3. Weather data (2025-26)

| Year         | Month  | Rainfall (mm) | Temperature °C |         | Relative Humidity (%) |         |
|--------------|--------|---------------|----------------|---------|-----------------------|---------|
|              |        |               | Maximum        | Minimum | Maximum               | Minimum |
| 2025         | April  | 59.60         |                |         |                       |         |
|              | May    | 46.86         |                |         |                       |         |
|              | June   | 62.44         |                |         |                       |         |
|              | July   | 306.57        |                |         |                       |         |
|              | August | 292.40        |                |         |                       |         |
|              | Sept.  | 273.19        |                |         |                       |         |
|              | Oct.   | 106.64        |                |         |                       |         |
|              | Nov.   | 54.86         |                |         |                       |         |
|              | Dec    | 0.00          |                |         |                       |         |
| 2026         | Jan    | 0.00          |                |         |                       |         |
|              | Feb    | 0.00          |                |         |                       |         |
|              | March  | 54.31         |                |         |                       |         |
| <b>Total</b> |        |               |                |         |                       |         |

### 2.4 Production and productivity of livestock, Poultry, Fisheries etc. in the district (2025)

| Category          | Population | Production            | Productivity        | Productivity gap |
|-------------------|------------|-----------------------|---------------------|------------------|
| <b>Cattle</b>     |            |                       |                     |                  |
| <b>Buffalo</b>    | 28,053     | 1.47 mt.              |                     |                  |
| <b>Sheep</b>      | 187        |                       |                     |                  |
| <b>Goats</b>      | 2,46,451   | 0.242 mt.             |                     |                  |
| <b>Cattle</b>     | 2,57,800   | 33.98 mt.             |                     |                  |
| <i>Crossbred</i>  | 2,56,547   |                       |                     |                  |
| <i>Indigenous</i> | 1253       |                       |                     |                  |
| <b>Pigs</b>       |            |                       |                     |                  |
| <b>Poultry</b>    |            |                       |                     |                  |
| Hens              | 68,950     | 1,03,42,500 eggs      |                     |                  |
| <i>Desi</i>       |            |                       |                     |                  |
| <b>Category</b>   |            | <b>Production (q)</b> | <b>Productivity</b> |                  |
| Fish (Reservoir)  |            | 388.8                 |                     |                  |

\*Statcal report

## 2.5 Details of Operational area / Villages

| Name of Taluk | Name of the block | Name of the village                              | Major crops & enterprises                                                       | Existing yield (q/ha, number/year)                                                                                               | Major problem identified (Crop-Wise)                                                                              | Identified Thrust Areas                                                                                                                                                                                          |
|---------------|-------------------|--------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KHAGARIA      | Khagaria          | Ranko, Chandranagar, Mehsouri, Bhadas, Bachoutta | Mango, Wheat, Paddy, Maize, Vegetables, Live Stock, Poultry, Dairy, Bee Keeping | Paddy-28.37<br>Maize (Kharif)21.70<br>Wheat -35.68<br>Maize (Rabi)- 75.73<br>Mango – 96.00<br>Coriander – 08.97<br>Okra – 162.03 | Imbalanced use of fertilizers,Poor productivity of orchards, Lack of proper management of insect pest and disease | Improved management of existing orchards, Introduction of high yielding varieties of crops, scientific cultivation of cereal crops, IPM and IDM. Scientific management of disease of poultry and feed management |

|  |          |                                                        |                                                                                    |                                                                                                                                                    |                                                                                                                    |                                                                                                                                                   |
|--|----------|--------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Mansi    | Amni, Balha,                                           | Mango, Wheat, Paddy, Maize, Vegetables, Sugarcane, Live Stock, Mushroom Production | Paddy-28.37<br>Maize (Kharif)21.70<br>Wheat -35.68<br>Maize (Rabi)- 75.73<br>Mango – 96.00<br>Coriander – 08.97<br>Okra – 162.03                   | Imbalanced use of fertilizers, poor productivity of orchards, Lack of proper management of insect pest and disease | Improved management of existing orchards<br>Introduction of high yielding varieties of crops, scientific cultivation of cereal crops, IPM and IDM |
|  | Alouli   | Mujhouna ,<br>Asurar, Imli,<br>BudhwaParri,<br>Sonihar | Banana, bee keeping and mushroom cultivation.                                      | Paddy-28.37<br>Maize (Kharif)21.70<br>Wheat -35.68<br>Maize (Rabi)- 75.73<br>Mango – 96.00<br>Coriander – 08.97<br>Okra – 162.03                   | Lack of knowledge about latest technology and income generation                                                    | Production , promotion and marketing of tissue culture<br>Banana, bee keeping and mushroom cultivation                                            |
|  | Gogari   | Pasraha, Sondiha,<br>Dina Chakla,<br>Gouchhari,Deotha  |                                                                                    | Paddy-28.37<br>Maize (Kharif)21.70<br>Wheat -35.68<br>Maize (Rabi)- 75.73<br>Mango – 96.00<br>Coriander – 08.97<br>Okra – 162.03<br>Banana – 579.5 |                                                                                                                    |                                                                                                                                                   |
|  | Choutham | Adabari, Devka,<br>Malpa,                              | Banana, Mushroom cultivation                                                       | Paddy-28.37<br>Maize (Kharif)21.70<br>Wheat -35.68<br>Maize (Rabi)- 75.73<br>Mango – 96.00<br>Coriander – 08.97<br>Okra – 162.03                   | Lack of knowledge about latest technology and income generation                                                    | Production , promotion and marketing of tissue culture<br>Banana, bee keeping and mushroom cultivation                                            |

|  |          |                                                                  |                                                    |                                                                                                                                                    |                                                                       |                                                                                                              |
|--|----------|------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|  | Parbatta | Karna,<br>Teliabathan,<br>Bandehera,<br>Kulhariya,<br>Mahadipur, | Bee keeping, banana<br>and Mushroom<br>cultivation | Paddy-28.37<br>Maize (Kharif)21.70<br>Wheat -35.68<br>Maize (Rabi)- 75.73<br>Mango – 96.00<br>Coriander – 08.97<br>Okra – 162.03<br>Banana – 579.5 | Lack of knowledge<br>about latest technology<br>and income generation | Production , promotion and<br>marketing of tissue culture<br>Banana, bee keeping and<br>mushroom cultivation |
|  | Beldour  | Pansalwa, Murli,<br>BelaNawad                                    | Mushroom<br>cultivation<br>Poultry (Chicks)        | Paddy-28.37<br>Maize (Kharif)21.70<br>Wheat -35.68<br>Maize (Rabi)- 75.73<br>Mango – 96.00<br>Coriander – 08.97<br>Okra – 162.03                   | Lack of knowledge<br>about latest technology<br>and income generation | Production , promotion and<br>marketing of bee keeping,<br>chicks and mushroom<br>cultivation                |

## 2.6 Top five major priority thrust areas:

- i. **Improving the productivity of cereals, oilseeds and horticulture crops.**
- ii. **Adoption of IPM & IDM for sustainable agriculture**
- iii. **Adoption of INM for sustainable agriculture.**
- iv. **Adoption of modern farming techniques.**
- v. **Income generation through development of agri based entrepreneurship.**

### 3. TECHNICAL PROGRAMME

#### 3 A. Details of targeted mandatory activities by KVK

| OFT            |                   | FLD        |                   |                   |
|----------------|-------------------|------------|-------------------|-------------------|
| (1)            |                   | (2)        |                   |                   |
| Number of OFTs | Number of Farmers | Area (ha)  | No of enterprises | Number of Farmers |
| <b>06</b>      | <b>60</b>         | <b>5.6</b> | <b>04</b>         | <b>95</b>         |

| Training          |                        | Extension Activities |                        |
|-------------------|------------------------|----------------------|------------------------|
| (3)               |                        | (4)                  |                        |
| Number of Courses | Number of Participants | Number of activities | Number of participants |
| <b>60</b>         | <b>1500</b>            | <b>88</b>            | <b>3000</b>            |

| Seed Production (Qtl.) | Planting material (Nos.) | Fish seed prod. (Nos) | Soil Samples |
|------------------------|--------------------------|-----------------------|--------------|
| (5)                    | (6)                      | (7)                   | (8)          |
| <b>400</b>             | <b>23,500</b>            | <b>-</b>              | <b>-</b>     |

#### Abstract of interventions to be undertaken

| S. No | Thrust area                   | Crop/ Enterprise | Identified Problem                                                              | Interventions                                                   |                     |                          |                                                  |                      |                                               |
|-------|-------------------------------|------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------|--------------------------|--------------------------------------------------|----------------------|-----------------------------------------------|
|       |                               |                  |                                                                                 | 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     | Varietal Evaluation           | Paddy            | Low yield                                                                       | Assessment of different variety of paddy for Khagaria district. |                     |                          |                                                  |                      | Seed                                          |
| 2     | Integrated Disease Management | Maize            | Low yield of maize and yield loss up to 100 percent due to post flowering stalk | Management of post flowering stalk rot disease (wilt) of maize  |                     |                          |                                                  |                      | Trichoderma viride & harzianum, FYM, vitavax, |

|   |                                |               |                                                        |                                                                              |                                                                       |                                        |  |           |                                                    |
|---|--------------------------------|---------------|--------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------|--|-----------|----------------------------------------------------|
|   |                                |               | rot of maize                                           |                                                                              |                                                                       |                                        |  |           | Difenconazole<br>+<br>Azoxystrobin                 |
| 3 | Integrated Pest Management     | Mango         | Low yield                                              | Assessment of management practices of Bark Eating Caterpillar in Mango       |                                                                       |                                        |  |           | Pesticides ,<br>Lime, Multi<br>Nutrient<br>mixture |
| 4 | Nutrient management            | Cauliflower   | Low yield and poor quality of cauliflower              | Assessment of Boron on yield and quality of Cauliflower                      |                                                                       |                                        |  |           | Borax, Boric acid                                  |
| 5 | Integrated Nutrient Management | Mango Farming | low production                                         | Assessment of nutrient management practices in mango                         |                                                                       |                                        |  |           | Vermicompost , Azotobacter, NPK.                   |
| 6 | Farm Machinery                 | Maize         | Low yield and over plant population                    | Assessment of different planting machineries for establishment of maize crop |                                                                       |                                        |  |           | Pneumatic maize planter, Raised bed Maize planter  |
| 7 | Cropping System                | Maize         | Low yield due to local variety                         |                                                                              | Demonstration on high yielding variety of Maize during kharif season. | Scientific cultivation of kharif maize |  | Field Day | Seed                                               |
| 8 | IPM                            | Mango         | Red Banded Caterpillar                                 |                                                                              | Demonstration on management of red banded caterpillar in mango        | IPM in Mango                           |  | Field Day | Thiacloprid 21.7 SC                                |
| 9 | Crop management                | Banana        | Poor quality of banana results in low yield as well as |                                                                              | Demonstration on banana bunch                                         | Cultivation of banana                  |  | Field Day | Bunch Cover                                        |

|    |                                        |      |                                                                                |  |                                                   |                                  |  |           |                      |
|----|----------------------------------------|------|--------------------------------------------------------------------------------|--|---------------------------------------------------|----------------------------------|--|-----------|----------------------|
|    | practices for quality fruit production |      | poor market value                                                              |  | covering technology for quality banana production |                                  |  |           |                      |
| 10 | Farm Machinery                         | Okra | Labour intensive, drudgery in operation, shortage of labour and time consuming |  | Demonstration on Okra Harvester Tool              | Training on okra harvester tools |  | Field Day | Okra harvester tools |

### 3.1 Technologies to be assessed

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

| Thematic areas                            | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables  | Fruits | Flower | Plantation crops | Tuber Crops | TOTAL     |
|-------------------------------------------|---------|----------|--------|------------------|-------------|--------|--------|------------------|-------------|-----------|
| Varietal Evaluation                       | Paddy   |          |        |                  |             |        |        |                  |             | 01        |
| Seed / Plant production                   |         |          |        |                  |             |        |        |                  |             |           |
| Weed Management                           |         |          |        |                  |             |        |        |                  |             |           |
| Integrated Crop Management                |         |          |        |                  |             |        |        |                  |             |           |
| Integrated Nutrient Management            |         |          |        |                  |             |        |        |                  |             |           |
| Integrated Farming System                 |         |          |        |                  | Cauliflower | Mango  |        |                  |             | 02        |
| Mushroom cultivation                      |         |          |        |                  |             |        |        |                  |             |           |
| Drudgery reduction                        |         |          |        |                  |             |        |        |                  |             |           |
| Farm machineries                          |         |          |        |                  | Okra        |        |        |                  |             | 01        |
| Value addition                            |         |          |        |                  |             |        |        |                  |             |           |
| Integrated Pest Management                |         |          |        |                  |             | Mango  |        |                  |             | 01        |
| Integrated Disease Management             | Maize   |          |        |                  |             |        |        |                  |             | 01        |
| Resource conservation technology          |         |          |        |                  |             |        |        |                  |             |           |
| Small Scale income generating enterprises |         |          |        |                  |             |        |        |                  |             |           |
| <b>TOTAL</b>                              |         |          |        |                  |             |        |        |                  |             | <b>06</b> |

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

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

**B. Details of all On Farm Trial in the given format**

**OFT :-01**

**Crop area of district :-16768 ha, District yield (28.37 Q/ha) State yield (24.47 Q/ha)**

|                                           |                                                                                                                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Paddy                                                                                                                                                                                               |
| Season                                    | Kharif                                                                                                                                                                                              |
| Main problem                              | Low yield                                                                                                                                                                                           |
| Main cause                                | Drought and flood condition                                                                                                                                                                         |
| Title of OFT                              | Assessment of different variety of paddy for Khagaria district.                                                                                                                                     |
| Farming situation                         | Irrigated & Medium land                                                                                                                                                                             |
| Thematic area                             | Varietal Evaluation                                                                                                                                                                                 |
| Farmer practice                           | Sahbhagi                                                                                                                                                                                            |
| Technology option selected for assessment | TO 1 : SuskSamrat<br>TO 2: Sabour Deep<br>TO 3: Sabour Harshit                                                                                                                                      |
| Source of technology                      | BAU Sabour, Bhagalpur, 2019                                                                                                                                                                         |
| No of trial                               | 10                                                                                                                                                                                                  |
| Detail of critical input                  | Seed                                                                                                                                                                                                |
| Cost of individual critical input         | Rs. 500/-                                                                                                                                                                                           |
| Total cost of critical input              | Rs. 5,000 /-                                                                                                                                                                                        |
| Performance indicator to be recorded      | Technical Indicator :- No of tillers/plant, test weight (g), Yield (q/ha)<br>Economics indicator (Cost of Cultivation, Gross return, Net return, B:C ratio)<br>Farmer Feedback :- Farmer perception |

**OFT No: - 02**

**Crop area of district in ha :-32871, District yield (Q/ha):- 75.73 State yield (40.81 Q/ha)**

|                                           |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Maize                                                                                                                                                                                                                                                                                                                                                                                     |
| Season                                    | Rabi                                                                                                                                                                                                                                                                                                                                                                                      |
| Main problem                              | Low yield of maize and yield loss up to 100 percent due to post flowering stalk rot of maize                                                                                                                                                                                                                                                                                              |
| Main cause                                | Fungal Pathogen Fusarium and Macrophomina                                                                                                                                                                                                                                                                                                                                                 |
| Title of OFT                              | Management of post flowering stalk rot disease (wilt) of maize                                                                                                                                                                                                                                                                                                                            |
| Farming situation                         | Sandy loam, and Irrigated land                                                                                                                                                                                                                                                                                                                                                            |
| Thematic area                             | Integrated Disease Management                                                                                                                                                                                                                                                                                                                                                             |
| Farmer practice                           | Spray with Carbendazim +Mancozeb@2g/lit. of water                                                                                                                                                                                                                                                                                                                                         |
| Technology option selected for assessment | TO-2 Seed treatment with Trichodermaviride @5g/kg seed + soil application of Trichodermaharzianum 2.0% formulation @10 g per kg FYM incubated for 10 days in moist condition<br>TO-3 Seed treatment with Vitavax 200 <a href="#">WS@2.5</a> g/kg seed + Two foliar spray of Difenconazole + Azoxystrobin @ 1ml/lit. at pre flowering stage and second spray at 25 days after first spray. |
| Source of technology                      | IARI, New Delhi (2022)                                                                                                                                                                                                                                                                                                                                                                    |
| No of trial                               | 10                                                                                                                                                                                                                                                                                                                                                                                        |
| Detail of critical input                  | Trichodermaviride&harzianum, FYM, vitavax, Difenconazole + Azoxystrobin                                                                                                                                                                                                                                                                                                                   |
| Cost of individual critical input         | Rs. 700                                                                                                                                                                                                                                                                                                                                                                                   |
| Total cost of critical input              | Rs. 7000.00                                                                                                                                                                                                                                                                                                                                                                               |
| Performance indicator to be recorded      | Technical indicator (No of cobs/plant, No of grains/cob, Yield (q/ha)<br>Economics indicator (Cost of Cultivation, Gross return, Net return, B:C ratio)<br>Farmer perception :- Farmer perception                                                                                                                                                                                         |

**OFT No: - 03****Crop area of district :- 1642 ha , District yield (96 Q/ha) State yield (98 Q/ha)**

|                                           |                                                                                                                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Mango                                                                                                                                                                           |
| Problem                                   | Low Yield                                                                                                                                                                       |
| Main Cause                                | Bark Eating Caterpillar ( Indarbelaquadrinotata )                                                                                                                               |
| Title of OFT                              | Assessment of management practices of Bark Eating Caterpillar in Mango                                                                                                          |
| Farming Situation                         | Sandy loam, Medium and irrigated land                                                                                                                                           |
| Thematic Area                             | Integrated Pest Management                                                                                                                                                      |
| Farmer Practice                           | Application of chlorpyrifos on the affected plants                                                                                                                              |
| Technology option selected for Assessment | TO 1 : Cleaning of damage parts of tree, Pasting the leaf of lantern camera + Lime + Multi nutrient Mixture .<br>TO 2 : Application of Lambda cyhalothrin 5 EC @ 1 ml /L water. |
| Source of Technology                      | BAU Sabour, Bhagalpur, 2024                                                                                                                                                     |
| No. of Trial                              | 10                                                                                                                                                                              |
| Detail of critical input                  | Pesticides , Lime, Multi Nutrient mixture                                                                                                                                       |
| Cost of individual critical input         | Rs.- 800/-                                                                                                                                                                      |
| Total cost of critical input (Rs.)        | Rs.- 8,000/-                                                                                                                                                                    |
| Performance indicator                     | Technical Indicator – Observation will be taken for No. of damage / Larvae,<br>Yield (q/ha), Economics analysis<br>Farmers Feedback :- Farmer perception                        |

**OFT No: - 04****Crop area of district :- 1259 ha , District yield (193 Q/ha) State yield (161.66Q/ha)**

|                                           |                                                                                                                                                                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Cauliflower                                                                                                                                                                                                                 |
| Season                                    | Rabi                                                                                                                                                                                                                        |
| Main problem                              | Low yield and poor quality of cauliflower                                                                                                                                                                                   |
| Main cause                                | Boron nutrient deficiency                                                                                                                                                                                                   |
| Title of OFT                              | Assessment of Boron on yield and quality of Cauliflower                                                                                                                                                                     |
| Farming situation                         | Sandy loam, medium and, irrigated land                                                                                                                                                                                      |
| Thematic area                             | Nutrient management                                                                                                                                                                                                         |
| Farmer practice                           | Improper dose of N, P , K and no use of boron                                                                                                                                                                               |
| Technology option selected for assessment | TO1: RDF (N:P2O5:K2O :: 100:80:80 kg/ha) + Borax@15kg/ha as basal dose<br>TO2: RDF (N:P2O5:K2O :: 100:80:80 kg/ha) + Borax@2.5 kg/ha as basal dose + Boric acid (20%B) @ 0.25 % as foliar spray after one month of planting |
| Source of technology                      | BAU Sabour, Bhagalpur, 2022                                                                                                                                                                                                 |
| No of trial                               | 10                                                                                                                                                                                                                          |
| Detail of critical input                  | Borax, Boric acid                                                                                                                                                                                                           |
| Cost of individual critical input         | Borax-1500/-, Boric acid- 1000/-                                                                                                                                                                                            |
| Total cost of critical input              | 2500/-                                                                                                                                                                                                                      |
| Performance indicator to be recorded      | Technical Indicator - Curd diameter(cm), weight of curd (g) per plant, curd yield (q/ha)<br>Economics indicator (Cost of Cultivation, Gross return, Net return, B:C ratio)<br>Farmers Feedback :- Farmer perception         |

**OFT No: - 05****Crop area of district :- 1642 ha , District yield (96 Q/ha) State yield (98 Q/ha)**

|                                           |                                                                                                                                                                                                                      |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Mango farming                                                                                                                                                                                                        |
| Season                                    | Perennial                                                                                                                                                                                                            |
| Main problem                              | low production                                                                                                                                                                                                       |
| Main cause                                | Improper nutrient management                                                                                                                                                                                         |
| Title of OFT                              | Assessment of nutrient management practices in mango                                                                                                                                                                 |
| Farming situation                         | Sandy loam, Medium and Irrigated land                                                                                                                                                                                |
| Thematic area                             | Integrated Nutrient Management                                                                                                                                                                                       |
| Farmer practice                           | Improper dose of Nutrient Management                                                                                                                                                                                 |
| Technology option selected for assessment | TO1:- 1000g: 500g: 500g NPK/ tree (Above 10 Years old tree)<br>TO2:- 1/2 of recommended dose + Azotobacter (250g) +FYM (50kg ) /Tree.<br>TO3:-1/2 of recommended dose + FYM (50kg) + Vermicompost (5kg)/Tree.        |
| Source of technology                      | BAU Sabour, Bhagalpur, 2022                                                                                                                                                                                          |
| No of trial                               | 10                                                                                                                                                                                                                   |
| Detail of critical input                  | Vermicompost, Azotobacter, NPK.                                                                                                                                                                                      |
| Cost of individual critical input         | Rs. 1000/-                                                                                                                                                                                                           |
| Total cost of critical input              | Rs. 10,000/-                                                                                                                                                                                                         |
| Performance indicator to be recorded      | Technical indicator (No of fruit set/panicle, No. of fruit retention, No. of fruit at the time of harvesting/panicle, Yield (Q/ha)<br>Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio). |

**OFT No: - 06****Crop area of district in ha :-32871, District yield (Q/ha):- 75.73 State yield (40.81 Q/ha)**

|                                           |                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Maize                                                                                                                                                                                                                                                                                                                                       |
| Season                                    | Rabi                                                                                                                                                                                                                                                                                                                                        |
| Main problem                              | Low yield and over plant population                                                                                                                                                                                                                                                                                                         |
| Main cause                                | Delaying in sowing due to manual sowing                                                                                                                                                                                                                                                                                                     |
| Title of OFT                              | Assessment of different planting machineries for establishment of maize crop                                                                                                                                                                                                                                                                |
| Farming situation                         | Sandy loam, medium and, irrigated land                                                                                                                                                                                                                                                                                                      |
| Thematic area                             | Farm Machinery                                                                                                                                                                                                                                                                                                                              |
| Farmer practice                           | Manual Sowing                                                                                                                                                                                                                                                                                                                               |
| Technology option selected for assessment | TO-1: Sowing with Raised bed Maize planter<br>TO-2: Sowing with pneumatic maize planter                                                                                                                                                                                                                                                     |
| Source of technology                      | CIAE Bhopal, 2022                                                                                                                                                                                                                                                                                                                           |
| No of trial                               | 10                                                                                                                                                                                                                                                                                                                                          |
| Detail of critical input                  | Pneumatic maize planter, Raised bed Maize planter                                                                                                                                                                                                                                                                                           |
| Cost of individual critical input         | Rs. 1500/-                                                                                                                                                                                                                                                                                                                                  |
| Total cost of critical input              | Rs. 15000/-                                                                                                                                                                                                                                                                                                                                 |
| Performance indicator to be recorded      | Technical indicators: No. of plant/m <sup>2</sup> (No. count), Yield (q/ha), Seed placement accuracy (depth & spacing consistency), field efficiency (ha/hr), Seedling emergence rate.<br>Economic Indicators: Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net return (Rs./ha), B:C Ratio<br>Farmer feedback :- Farmers Perception |

### 3.2Frontline Demonstrations

#### A Details of FLDs to be organized -

| Sl. No       | Crop   | Thematic area                                          | Technology for demonstration                                                            | Critical inputs     | Season and year | Area (ha)  | No. of farmer s/ dem on. | Parameters identified (Yield related attributes, yield economics and farmers' perception                                                                                                              |
|--------------|--------|--------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------|-----------------|------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1            | Maize  | Cropping System                                        | High yielding variety of Maize during kharif season.                                    | Sabour Maize -1     | Kharif, 2026    | 01         | 05                       | (I) Technical indicator- Yield q/ha<br>(II) Economic indicator – Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio.<br>(III) Farmer Feedback- Farmers perception     |
| 2            | Mango  | Integrated Pest Management                             | Two sprays of Thiachloprid 21.7 SC 0.04 %@(2ml/lit of water ) at 25 – 30 days interval. | Insecticide         | Rabi, 2026      | 0.4        | 50                       | (I) Technical indicator :- Yield q/ha<br>(II) Economic indicator :-Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio.<br>(III) Farmer Feedback :- Farmers perception |
| 3            | Banana | Crop management practices for quality fruit production | Cover the banana bunches with white non woven polypropylene bag                         | Banana Bunch Cover  | Kharif, 2026    | 0.2        | 10                       | (I) Technical indicator :- Yield q/ha<br>(II) Economic indicator :- Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio.<br>(III) Farmer Feedback :- Farmer perception |
| 4            | Okra   | Farm Machinery                                         | Okra harvesting through okra harvester tool                                             | Okra harvester tool | Summe r, 2026   | 4          | 30                       | 1. Technical indicator :- Harvesting Efficiency(ha/hr.)<br>2.Economic indicator :- Cost of plucking<br>3.Farmer Feedback :- Farmer perception                                                         |
| <b>TOTAL</b> |        |                                                        |                                                                                         |                     |                 | <b>5.6</b> | <b>95</b>                |                                                                                                                                                                                                       |

**Sponsored Demonstration**

| Crop | Area (ha) | No. of farmers |
|------|-----------|----------------|
|      |           |                |

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

| S. No. | Activity                             | No. of activities | Month                    | Number of participants |
|--------|--------------------------------------|-------------------|--------------------------|------------------------|
| 1      | Farmers Training                     | 04                | June, July, August, 2026 | 100                    |
| 2      | Field days                           | 04                | June, July, August, 2026 | 100                    |
| 3      | Media coverage                       | 04                | June to Sept, 2026       | Mass                   |
| 4      | Training for extension functionaries | 01                | June to Sept, 2026       | 25-30                  |

**C. Details of FLD on Enterprises****(i) Farm Implements**

| Name of the implement                       | Crop | Season and year | No. of farmers | Area (ha) | Critical inputs     | Performance parameters / indicators                                                                                                           |
|---------------------------------------------|------|-----------------|----------------|-----------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Okra harvesting through okra harvester tool | Okra | Summer & 2026   | 30             | 4         | Okra harvester tool | 1. Technical indicator :- Harvesting efficiency(ha/hr.)<br>2.Economic indicator :- Cost of plucking<br>3.Farmer Feedback :- Farmer perception |

**(ii) Livestock Enterprises**

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

**Details of all FLD****FLD No:- 01**

***Crop area of district :-18195 ha, District yield (28.37 Q/ha) State yield (21.00 Q/ha)***

| <b>Title of FLD</b>                          | <b>Demonstration on high yielding variety of Maize during kharif season.</b>                                                                                                                        |               |    |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|
| Season & Year                                | Kharif, 2026                                                                                                                                                                                        |               |    |
| Main Problem                                 | Low yield due to local variety                                                                                                                                                                      |               |    |
| Main cause                                   | Local variety                                                                                                                                                                                       |               |    |
| Full detail of farmer's Practice             | Cultivation of local variety                                                                                                                                                                        |               |    |
| Full detail of technology to be demonstrated | High yielding variety of Kharif Maize                                                                                                                                                               |               |    |
| Source of Technology with year               | BAU, Sabour, 2021                                                                                                                                                                                   |               |    |
| Name of the Technology                       | Sabour Maize -1                                                                                                                                                                                     |               |    |
| Thematic area                                | Cropping System                                                                                                                                                                                     |               |    |
| Name of villages                             | Amni                                                                                                                                                                                                |               |    |
| Farming situation                            | Irrigated                                                                                                                                                                                           |               |    |
| Area (ha)/Unit (No.)                         | 1.0 ha                                                                                                                                                                                              | No of farmers | 05 |
| Performance indicator                        | (I) Technical indicator- Yield (q/ha)<br>(II) Economic indicator – Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio.<br>(III) Farmer Feedback- Farmers perception |               |    |

**FLD No:- 02**

**Crop area of district :- 1642 in ha, District yield (96 Q/ha) State yield (89.98Q/ha)**

| <b>Title of FLD</b>                          | <b>Demonstration on Thiacloprid for the management of Red Banded Caterpillar in Mango</b>                                                                                                           |               |    |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|
| Season & Year                                | Rabi, 2026                                                                                                                                                                                          |               |    |
| Main Problem                                 | Low production                                                                                                                                                                                      |               |    |
| Main cause                                   | Red Banded Caterpillar                                                                                                                                                                              |               |    |
| Full detail of farmer's Practice             | Spray of Chlorpyrifos as and when symptoms appear                                                                                                                                                   |               |    |
| Full detail of technology to be demonstrated | Two sprays of Thiacloprid 21.7 SC 0.04 %@(2ml/lit of water ) at 25 – 30 days interval.                                                                                                              |               |    |
| Source of Technology with year               | NCIPM, New Delhi, 2020                                                                                                                                                                              |               |    |
| Name of the Technology                       | Thiacloprid 21.7 (OFT)                                                                                                                                                                              |               |    |
| Thematic area                                | Integrated Pest Management in Mango                                                                                                                                                                 |               |    |
| Name of villages                             | Bhadas                                                                                                                                                                                              |               |    |
| Farming situation                            | Sandy loam. Medium & irrigated land                                                                                                                                                                 |               |    |
| Area (ha)/Unit (No.)                         | 50 unit                                                                                                                                                                                             | No of farmers | 50 |
| Performance indicator                        | (I) Technical indicator- Yield (q/ha)<br>(II) Economic indicator - Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio.<br>(III) Farmer Feedback- Farmers perception |               |    |

**FLD No:- 03**

**Crop area of district :- 1310 ha , District yield (450 Q/ha) State yield (450 Q/ha)**

|                                              |                                                                                                                                                                                                   |                |    |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|
| <b>Title of FLD</b>                          | <b>Demonstration on banana bunch covering technology for quality banana production</b>                                                                                                            |                |    |
| Season & Year                                | Annual Crop, 2026                                                                                                                                                                                 |                |    |
| Main Problem                                 | Poor quality of banana results in low yield as well as poor market value                                                                                                                          |                |    |
| Main cause                                   | Not in practices of bunch cover`                                                                                                                                                                  |                |    |
| Full detail of farmer's Practice             | No bunch cover use                                                                                                                                                                                |                |    |
| Full detail of technology to be demonstrated | Cover the banana bunches with white non woven polypropylene bag                                                                                                                                   |                |    |
| Source of Technology with year               | BAU, Sabour, Bhagalpur, 2022                                                                                                                                                                      |                |    |
| Name of the Technology                       | Banana bunch covering technology for quality banana production                                                                                                                                    |                |    |
| Thematic area                                | Crop management practices for quality fruit production                                                                                                                                            |                |    |
| Name of villages                             | Kulahariya, Chautham                                                                                                                                                                              |                |    |
| Farming situation                            | Sandy loam, Medium & irrigated land                                                                                                                                                               |                |    |
| Area (ha)/Unit (No.)                         | 10 Unit (0.2 ha)                                                                                                                                                                                  | No. Of Farmers | 10 |
| Performance indicator                        | (I) Technical indicator- Yield (q/ha)<br>(II) Economic indicator - Cost of Cultivation(Rs./ha), Gross Return (Rs./ha), Net return (Rs./ha), B:C ratio.<br>(III) Farmer Feedback-Farmer perception |                |    |

**FLD No:- 04**

**Crop area of district :-1226 ha , District yield (162.039 Q/ha) State yield (137.2 Q/ha)**

| <b>Title of FLD</b>                          | <b>Demonstration on Okra Harvester Tool</b>                                                                                                     |               |    |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|
| Season & Year                                | Summer & 2026                                                                                                                                   |               |    |
| Main Problem                                 | Labour intensive, drudgery in operation, shortage of labour and time consuming                                                                  |               |    |
| Main cause                                   | Not in practices of Okra harvester tool                                                                                                         |               |    |
| Full detail of farmer's Practice             | Manual Harvesting                                                                                                                               |               |    |
| Full detail of technology to be demonstrated | Okra harvesting through okra harvester tool                                                                                                     |               |    |
| Source of Technology with year               | Dr. RPCAU, Pusa, Samastipur, 2022                                                                                                               |               |    |
| Name of the Technology                       | Okra Harvester Tool                                                                                                                             |               |    |
| Thematic area                                | Farm Machinery                                                                                                                                  |               |    |
| Name of villages                             | Ranko, Malpa, Imli,                                                                                                                             |               |    |
| Farming situation                            | Medium, Irrigated land                                                                                                                          |               |    |
| Area (ha)/Unit (No.)                         | 60 Unit (4 ha)                                                                                                                                  | No of farmers | 30 |
| Performance indicator                        | (I) Technical indicator- Harvesting efficiency(ha/hr.)<br>(II) Economic indicator – Cost of plucking<br>(III) Farmer Feedback-Farmer perception |               |    |

### 3.3 Training (Including the sponsored and FLD training programmes):Note: 25 participants per training

#### A) ON Campus

| Thematic Area                                 | Name of Courses                           | No. of Participants |        |       |       |        |       |             |
|-----------------------------------------------|-------------------------------------------|---------------------|--------|-------|-------|--------|-------|-------------|
|                                               |                                           | Others              |        |       | SC/ST |        |       | Grand Total |
|                                               |                                           | Male                | Female | Total | Male  | Female | Total |             |
| (A) Farmers & Farm Women                      |                                           |                     |        |       |       |        |       |             |
| I Crop Production                             |                                           |                     |        |       |       |        |       |             |
| Weed Management                               |                                           |                     |        |       |       |        |       |             |
| Resource Conservation Technologies            | Direct Seeded Rice .                      | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
| Cropping System                               | Cultivation techniques of green gram.     | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
|                                               | Cultivation techniques of green gram.     | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
|                                               | Cultivation techniques of maize crops.    | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
| Crop Diversification                          | Cultivation techniques of soybean.        | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
| Site specific nutrient management             | Integrated nutrient management in paddy.  | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
| Integrated Farming                            |                                           |                     |        |       |       |        |       |             |
| Water management                              |                                           |                     |        |       |       |        |       |             |
| Seed production                               |                                           |                     |        |       |       |        |       |             |
| Nursery management                            |                                           |                     |        |       |       |        |       |             |
| Integrated Crop Management                    |                                           |                     |        |       |       |        |       |             |
| Fodder production                             |                                           |                     |        |       |       |        |       |             |
| Production of organic inputs                  |                                           |                     |        |       |       |        |       |             |
| Natural farming                               |                                           |                     |        |       |       |        |       |             |
| II Horticulture                               |                                           |                     |        |       |       |        |       |             |
| a) Vegetable Crops                            |                                           |                     |        |       |       |        |       |             |
| Production of low volume and high value crops | Nutri garden management in summer seasons | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
| Off-season vegetables                         |                                           |                     |        |       |       |        |       |             |
| Nursery raising                               |                                           |                     |        |       |       |        |       |             |
| Exotic vegetables like Broccoli               |                                           |                     |        |       |       |        |       |             |
| Export potential vegetables                   |                                           |                     |        |       |       |        |       |             |

|                                                       |                                          |    |    |    |    |    |    |    |
|-------------------------------------------------------|------------------------------------------|----|----|----|----|----|----|----|
| Grading and standardization                           |                                          |    |    |    |    |    |    |    |
| Protective cultivation (Green Houses, Shade Net etc.) |                                          |    |    |    |    |    |    |    |
|                                                       |                                          |    |    |    |    |    |    |    |
| b) Fruits                                             |                                          |    |    |    |    |    |    |    |
| Training and Pruning                                  |                                          |    |    |    |    |    |    |    |
| Layout and Management of Orchards                     | Orchard management techniques in mango   | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Cultivation of Fruit                                  | Integrated nutrient management in mango  | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                       | Integrated nutrient management in banana | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                       |                                          |    |    |    |    |    |    |    |
| Management of young plants/orchards                   |                                          |    |    |    |    |    |    |    |
| Rejuvenation of old orchards                          |                                          |    |    |    |    |    |    |    |
| Export potential fruits                               |                                          |    |    |    |    |    |    |    |
| Micro irrigation systems of orchards                  |                                          |    |    |    |    |    |    |    |
| Plant propagation techniques                          |                                          |    |    |    |    |    |    |    |
| c) Ornamental Plants                                  |                                          |    |    |    |    |    |    |    |
| Nursery Management                                    |                                          |    |    |    |    |    |    |    |
| Management of potted plants                           |                                          |    |    |    |    |    |    |    |
| Export potential of ornamental plants                 |                                          |    |    |    |    |    |    |    |
| Propagation techniques of Ornamental Plants           |                                          |    |    |    |    |    |    |    |
| d) Plantation crops                                   |                                          |    |    |    |    |    |    |    |
| Production and Management technology                  |                                          |    |    |    |    |    |    |    |
| Processing and value addition                         |                                          |    |    |    |    |    |    |    |
| e) Tuber crops                                        |                                          |    |    |    |    |    |    |    |
| Production and Management technology                  |                                          |    |    |    |    |    |    |    |

|                                                 |  |  |  |  |  |  |  |  |
|-------------------------------------------------|--|--|--|--|--|--|--|--|
| Processing and value addition                   |  |  |  |  |  |  |  |  |
| f) Spices                                       |  |  |  |  |  |  |  |  |
| Production and Management technology            |  |  |  |  |  |  |  |  |
| Processing and value addition                   |  |  |  |  |  |  |  |  |
| g) Medicinal and Aromatic Plants                |  |  |  |  |  |  |  |  |
| Nursery management                              |  |  |  |  |  |  |  |  |
| Production and management technology            |  |  |  |  |  |  |  |  |
| Post harvest technology and value addition      |  |  |  |  |  |  |  |  |
| <b>III Soil Health and Fertility Management</b> |  |  |  |  |  |  |  |  |
| Soil fertility 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                          |  |  |  |  |  |  |  |  |
| <b>IV Livestock Production and Management</b>   |  |  |  |  |  |  |  |  |
| Dairy Management                                |  |  |  |  |  |  |  |  |
| Poultry Management                              |  |  |  |  |  |  |  |  |
| Piggery Management                              |  |  |  |  |  |  |  |  |
| Rabbit Management/goat                          |  |  |  |  |  |  |  |  |
| Disease Management                              |  |  |  |  |  |  |  |  |
| Feed management                                 |  |  |  |  |  |  |  |  |
| Production of quality animal products           |  |  |  |  |  |  |  |  |

| <b>V Home Science/Women empowerment</b>                              |                                                                                |    |    |    |    |    |    |    |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------|----|----|----|----|----|----|----|
| 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 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                                                 |                                                                                |    |    |    |    |    |    |    |
| <b>VI Agril. Engineering</b>                                         |                                                                                |    |    |    |    |    |    |    |
| Installation and maintenance of micro irrigation systems             | Types of drip & sprinkler irrigation system and their establishment            | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                                      | Solar power irrigation system                                                  | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                                      | Alternate wetting and drying techniques and their installation in Paddy crops. | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Use of Plastics in farming practices                                 |                                                                                |    |    |    |    |    |    |    |
| Production of small tools and implements                             |                                                                                |    |    |    |    |    |    |    |
| Repair and maintenance of farm machinery and implements              | Different techniques of crop residue management                                | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                                      | Role of different farm machinery for climate                                   | 11 | 06 | 17 | 05 | 03 | 08 | 25 |

|                                                     |                                            |    |    |    |    |    |    |    |
|-----------------------------------------------------|--------------------------------------------|----|----|----|----|----|----|----|
|                                                     | smart agriculture.                         |    |    |    |    |    |    |    |
| Small scale processing and value addition           |                                            |    |    |    |    |    |    |    |
| Post Harvest Technology                             |                                            |    |    |    |    |    |    |    |
| <b>VII Plant Protection</b>                         |                                            |    |    |    |    |    |    |    |
| Integrated Pest Management                          | Integrated pest management in green gram   | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                     | Integrated pest management in green gram   | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                     | Integrated pest management in banana       | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                     | Integrated pest management in kharif maize | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                     | Integrated pest management in mustard      | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Integrated Disease Management                       |                                            |    |    |    |    |    |    |    |
| Bio-control of pests and diseases                   |                                            |    |    |    |    |    |    |    |
| Production of bio control agents and bio pesticides |                                            |    |    |    |    |    |    |    |
| Natural farming                                     | Natural Farming in brinjal                 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                     | Natural Farming in brinjal                 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| <b>VIII Fisheries</b>                               |                                            |    |    |    |    |    |    |    |
| 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                                      |                                  |            |            |            |            |           |            |            |
| IX Production of Inputs at site               |                                  |            |            |            |            |           |            |            |
| 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                       |                                  |            |            |            |            |           |            |            |
| X Capacity Building and Group Dynamics        |                                  |            |            |            |            |           |            |            |
| Leadership development                        |                                  |            |            |            |            |           |            |            |
| Group dynamics                                |                                  |            |            |            |            |           |            |            |
| Formation and Management of SHGs/FPOs etc     |                                  |            |            |            |            |           |            |            |
| Mobilization of social capital                |                                  |            |            |            |            |           |            |            |
| Entrepreneurial development of farmers/youths |                                  |            |            |            |            |           |            |            |
| WTO and IPR issues                            |                                  |            |            |            |            |           |            |            |
| XI Agro-forestry                              |                                  |            |            |            |            |           |            |            |
| Production technologies                       |                                  |            |            |            |            |           |            |            |
| Nursery management                            |                                  |            |            |            |            |           |            |            |
| Integrated Farming Systems                    |                                  |            |            |            |            |           |            |            |
| XII Others (Pl. Specify)                      |                                  |            |            |            |            |           |            |            |
| <b>TOTAL</b>                                  | <b>22 (Twenty Two Trainings)</b> | <b>242</b> | <b>132</b> | <b>374</b> | <b>110</b> | <b>66</b> | <b>176</b> | <b>550</b> |

|                                                         |                                                                     |    |    |    |    |    |    |    |
|---------------------------------------------------------|---------------------------------------------------------------------|----|----|----|----|----|----|----|
| <b>(B) RURAL YOUTH</b>                                  |                                                                     |    |    |    |    |    |    |    |
| Mushroom Production                                     | Mushroom Production                                                 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Mushroom Production                                                 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Bee-keeping                                             |                                                                     |    |    |    |    |    |    |    |
| Integrated farming                                      |                                                                     |    |    |    |    |    |    |    |
| Seed production                                         | Seed production techniques of soybean                               | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Seed production techniques of wheat                                 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Production of organic inputs                            |                                                                     |    |    |    |    |    |    |    |
| Integrated Farming (Medicinal)                          |                                                                     |    |    |    |    |    |    |    |
| Planting material production                            | Plant propagation techniques of fruit & vegetable crops             | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Vermi-culture                                           |                                                                     |    |    |    |    |    |    |    |
| Sericulture                                             |                                                                     |    |    |    |    |    |    |    |
| Protected cultivation of vegetable crops                |                                                                     |    |    |    |    |    |    |    |
| Commercial fruit production                             |                                                                     |    |    |    |    |    |    |    |
| Repair and maintenance of farm machinery and implements | Solar-powered Irrigation System (SPIS)                              | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Income generation through custom hiring centers (CHC) establishment | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Nursery Management of Horticulture crops                | Techniques of nursery preparation and management                    | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Training and pruning of orchards                        |                                                                     |    |    |    |    |    |    |    |
| Value addition                                          |                                                                     |    |    |    |    |    |    |    |
| Production of quality animal products                   |                                                                     |    |    |    |    |    |    |    |
| Dairying                                                |                                                                     |    |    |    |    |    |    |    |
| Sheep and goat rearing                                  |                                                                     |    |    |    |    |    |    |    |
| Quail farming                                           |                                                                     |    |    |    |    |    |    |    |
| Piggery                                                 |                                                                     |    |    |    |    |    |    |    |
| Rabbit farming                                          |                                                                     |    |    |    |    |    |    |    |
| Poultry production                                      |                                                                     |    |    |    |    |    |    |    |

|                                         |                                                      |    |    |     |    |    |    |     |
|-----------------------------------------|------------------------------------------------------|----|----|-----|----|----|----|-----|
| Ornamental fisheries                    |                                                      |    |    |     |    |    |    |     |
| Para vets                               |                                                      |    |    |     |    |    |    |     |
| Para extension workers                  |                                                      |    |    |     |    |    |    |     |
| Composite fish culture                  |                                                      |    |    |     |    |    |    |     |
| Freshwater prawn culture                |                                                      |    |    |     |    |    |    |     |
| Shrimp farming                          |                                                      |    |    |     |    |    |    |     |
| Pearl culture                           |                                                      |    |    |     |    |    |    |     |
| Cold water fisheries                    |                                                      |    |    |     |    |    |    |     |
| Fish harvest and processing technology  |                                                      |    |    |     |    |    |    |     |
| Fry and fingerling rearing              |                                                      |    |    |     |    |    |    |     |
| Small scale processing                  |                                                      |    |    |     |    |    |    |     |
| Post Harvest Technology                 |                                                      |    |    |     |    |    |    |     |
| Tailoring and Stitching                 |                                                      |    |    |     |    |    |    |     |
| Rural Crafts                            |                                                      |    |    |     |    |    |    |     |
| TOTAL                                   |                                                      | 88 | 48 | 136 | 40 | 24 | 64 | 200 |
| <b>(C) Extension Personnel</b>          |                                                      |    |    |     |    |    |    |     |
| Productivity enhancement in field crops | Introduction of climate resilient varieties of paddy | 11 | 06 | 17  | 05 | 03 | 08 | 25  |
| Integrated Pest Management              | Integrated Pest Management in Maize                  | 11 | 06 | 17  | 05 | 03 | 08 | 25  |
| 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            | Emerging engineering technology under the            | 11 | 06 | 17  | 05 | 03 | 08 | 25  |

|                                                |                                                               |            |            |            |            |            |            |            |
|------------------------------------------------|---------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| machinery and implements                       | Climate Smart Agriculture                                     |            |            |            |            |            |            |            |
| WTO and IPR issues                             |                                                               |            |            |            |            |            |            |            |
| Management in farm animals                     |                                                               |            |            |            |            |            |            |            |
| Livestock feed and fodder production           |                                                               |            |            |            |            |            |            |            |
| Household food security                        | Preparation & maintenance of nutri garden in different season | 11         | 06         | 17         | 05         | 03         | 08         | 25         |
| Women and Child care                           |                                                               |            |            |            |            |            |            |            |
| Low cost and nutrient efficient diet designing |                                                               |            |            |            |            |            |            |            |
| Production and use of organic inputs           |                                                               |            |            |            |            |            |            |            |
| Gender mainstreaming through SHGs              |                                                               |            |            |            |            |            |            |            |
| Any other (Pl. Specify)                        |                                                               | 44         | 24         | 68         | 20         | 12         | 32         | 100        |
| <b>TOTAL</b>                                   |                                                               |            |            |            |            |            |            |            |
| <b>G. Total</b>                                | <b>34 (Thirty Four Trainings)</b>                             | <b>374</b> | <b>204</b> | <b>578</b> | <b>170</b> | <b>102</b> | <b>272</b> | <b>850</b> |

| OFF CampusNote: 25 participants per trainingThematic Area | No. of Courses                       | No. of Participants |        |       |       |        |       |             |
|-----------------------------------------------------------|--------------------------------------|---------------------|--------|-------|-------|--------|-------|-------------|
|                                                           |                                      | Others              |        |       | SC/ST |        |       | Grand Total |
|                                                           |                                      | Male                | Female | Total | Male  | Female | Total |             |
| (A) Farmers & Farm Women                                  |                                      |                     |        |       |       |        |       |             |
| I Crop Production                                         |                                      |                     |        |       |       |        |       |             |
| Weed Management                                           |                                      |                     |        |       |       |        |       |             |
| Resource Conservation Technologies                        |                                      |                     |        |       |       |        |       |             |
| Cropping Systems                                          | Cultivation techniques of Sunflower. | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |

|                                               |                                               |    |    |    |    |    |    |    |
|-----------------------------------------------|-----------------------------------------------|----|----|----|----|----|----|----|
|                                               | Cultivation techniques of kharifmaize .       | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                               | Cultivation techniques of paddy.              | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                               | Cultivation techniques of mustard crops.      | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                               | Cultivation techniques of wheat crops.        | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Crop Diversification                          | Cultivation techniques of Soybean crops.      | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Integrated Farming                            |                                               |    |    |    |    |    |    |    |
| Water management                              |                                               |    |    |    |    |    |    |    |
| Seed production                               |                                               |    |    |    |    |    |    |    |
| Nursery management                            |                                               |    |    |    |    |    |    |    |
| Integrated Crop Management                    |                                               |    |    |    |    |    |    |    |
| Fodder production                             |                                               |    |    |    |    |    |    |    |
| Production of organic inputs                  |                                               |    |    |    |    |    |    |    |
| <b>II Horticulture</b>                        |                                               |    |    |    |    |    |    |    |
| <b>a) Vegetable Crops</b>                     |                                               |    |    |    |    |    |    |    |
|                                               | Cultivation techniques of cucurbits vegetable | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Production of low volume and high value crops | Method of planting in tomato crops.           | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                               | Scientific cultivation of cole crops.         | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Off-season vegetables                         |                                               |    |    |    |    |    |    |    |
| Nursery raising                               | Techniques of nursery management in cucumber. | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Exotic vegetables like Broccoli               |                                               |    |    |    |    |    |    |    |
| Export potential vegetables                   | Scientific cultivation of makhana             | 11 | 06 | 17 | 05 | 03 | 08 | 25 |

|                                                       |                                         |    |    |    |    |    |    |    |
|-------------------------------------------------------|-----------------------------------------|----|----|----|----|----|----|----|
| Grading and standardization                           |                                         |    |    |    |    |    |    |    |
| Protective cultivation (Green Houses, Shade Net etc.) |                                         |    |    |    |    |    |    |    |
| <b>b) Fruits</b>                                      |                                         |    |    |    |    |    |    |    |
| Training and Pruning                                  |                                         |    |    |    |    |    |    |    |
| Layout and Management of Orchards                     |                                         |    |    |    |    |    |    |    |
| Cultivation of Fruit                                  | Method of planting techniques in banana | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                       | Integrated nutrient management in mango | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Management of young plants/orchards                   |                                         |    |    |    |    |    |    |    |
| Rejuvenation of old orchards                          |                                         |    |    |    |    |    |    |    |
| Export potential fruits                               |                                         |    |    |    |    |    |    |    |
| Micro irrigation systems of orchards                  |                                         |    |    |    |    |    |    |    |
| Plant propagation techniques                          |                                         |    |    |    |    |    |    |    |
| <b>c) Ornamental Plants</b>                           |                                         |    |    |    |    |    |    |    |
| Nursery Management                                    |                                         |    |    |    |    |    |    |    |
| Management of potted plants                           |                                         |    |    |    |    |    |    |    |
| Export potential of ornamental plants                 |                                         |    |    |    |    |    |    |    |
| Propagation techniques of Ornamental Plants           |                                         |    |    |    |    |    |    |    |
| <b>d) Plantation crops</b>                            |                                         |    |    |    |    |    |    |    |
| Production and Management technology                  |                                         |    |    |    |    |    |    |    |
| Processing and value addition                         |                                         |    |    |    |    |    |    |    |
| <b>e) Tuber crops</b>                                 |                                         |    |    |    |    |    |    |    |
| Production and Management                             |                                         |    |    |    |    |    |    |    |

|                                                 |                                    |    |    |    |    |    |    |    |
|-------------------------------------------------|------------------------------------|----|----|----|----|----|----|----|
| technology                                      |                                    |    |    |    |    |    |    |    |
| Processing and value addition                   |                                    |    |    |    |    |    |    |    |
| <b>f) Spices</b>                                |                                    |    |    |    |    |    |    |    |
| Production and Management technology            | Scientific cultivation of turmeric | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Processing and value addition                   |                                    |    |    |    |    |    |    |    |
| <b>g) Medicinal and Aromatic Plants</b>         |                                    |    |    |    |    |    |    |    |
| Nursery management                              |                                    |    |    |    |    |    |    |    |
| Production and management technology            |                                    |    |    |    |    |    |    |    |
| Post harvest technology and value addition      |                                    |    |    |    |    |    |    |    |
| <b>III Soil Health and Fertility Management</b> |                                    |    |    |    |    |    |    |    |
| Soil fertility 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                          |                                    |    |    |    |    |    |    |    |
| <b>IV Livestock Production and Management</b>   |                                    |    |    |    |    |    |    |    |
| Dairy Management                                |                                    |    |    |    |    |    |    |    |
| Poultry Management                              |                                    |    |    |    |    |    |    |    |
| Piggery Management                              |                                    |    |    |    |    |    |    |    |
| Rabbit Management /goat                         |                                    |    |    |    |    |    |    |    |
| Disease Management                              |                                    |    |    |    |    |    |    |    |

|                                                                      |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| Feed management                                                      |  |  |  |  |  |  |  |  |
| Production of quality animal products                                |  |  |  |  |  |  |  |  |
| <b>V Home Science/Women empowerment</b>                              |  |  |  |  |  |  |  |  |
| 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 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                                                 |  |  |  |  |  |  |  |  |
| <b>VI Agril. Engineering</b>                                         |  |  |  |  |  |  |  |  |
| 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 | Use & benefits of zero tillage machine          | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Benefits of laser land leveler                  | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Calibration of zero tillage machine for DSR     | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Benefits of raised bed planter for kharif maize | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Care and maintenance of tractor.                | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Use & benefits of reaper                        | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Sowing of Maize through different dibblers.     | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Small scale processing and value addition               |                                                 |    |    |    |    |    |    |    |
| Post Harvest Technology                                 |                                                 |    |    |    |    |    |    |    |
| <b>VII Plant Protection</b>                             |                                                 |    |    |    |    |    |    |    |
| Integrated Pest Management                              | Integrated pest management in maize.            | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Integrated Disease Management                           | Integrated disease management in banana         | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Integrated disease management in paddy          | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Integrated disease management in Ragi.          | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
|                                                         | Integrated disease management in mustard        | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Bio-control of pests and diseases                       |                                                 |    |    |    |    |    |    |    |
| Production of bio control agents and bio pesticides     |                                                 |    |    |    |    |    |    |    |
| <b>VIII Fisheries</b>                                   |                                                 |    |    |    |    |    |    |    |
| 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                  |  |  |  |  |  |  |  |  |
| <b>IX Production of Inputs at site</b>              |  |  |  |  |  |  |  |  |
| Seed Production                                     |  |  |  |  |  |  |  |  |
| Planting material production (Horti.)               |  |  |  |  |  |  |  |  |
| Bio-agents production                               |  |  |  |  |  |  |  |  |
| Bio-pesticides production                           |  |  |  |  |  |  |  |  |
| Bio-fertilizer production                           |  |  |  |  |  |  |  |  |
| Vermi-compost production (Horti.)                   |  |  |  |  |  |  |  |  |
| Organic manures production (A.S.)                   |  |  |  |  |  |  |  |  |
| 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                              |                       |            |            |            |            |           |            |            |
| <b>X Capacity Building and Group Dynamics</b>        |                       |            |            |            |            |           |            |            |
| Leadership development                               |                       |            |            |            |            |           |            |            |
| Group dynamics                                       |                       |            |            |            |            |           |            |            |
| Formation and Management of SHGs(HS)                 |                       |            |            |            |            |           |            |            |
| Mobilization of social capital                       |                       |            |            |            |            |           |            |            |
| Entrepreneurial development of farmers/youths (Agro) |                       |            |            |            |            |           |            |            |
| WTO and IPR issues                                   |                       |            |            |            |            |           |            |            |
| <b>XI Agro-forestry</b>                              |                       |            |            |            |            |           |            |            |
| Production technologies                              |                       |            |            |            |            |           |            |            |
| Nursery management                                   |                       |            |            |            |            |           |            |            |
| Integrated Farming Systems (Agro)                    |                       | 11         | 06         | 17         | 05         | 03        | 08         | 25         |
| <b>XII Others (Pl. Specify)</b>                      |                       |            |            |            |            |           |            |            |
| <b>TOTAL</b>                                         | <b>26 (Trainings)</b> | <b>286</b> | <b>156</b> | <b>442</b> | <b>130</b> | <b>78</b> | <b>208</b> | <b>650</b> |

**C) Consolidated table (ON and OFF Campus)**

| Thematic Area                      | No. of Courses | No. of Participants |        |       |       |        |       |             |
|------------------------------------|----------------|---------------------|--------|-------|-------|--------|-------|-------------|
|                                    |                | Others              |        |       | SC/ST |        |       | Grand Total |
|                                    |                | Male                | Female | Total | Male  | Female | Total |             |
| (A) Farmers & Farm Women           |                |                     |        |       |       |        |       |             |
| I Crop Production                  |                |                     |        |       |       |        |       |             |
| Weed Management                    |                |                     |        |       |       |        |       |             |
| Resource Conservation Technologies | 01             | 11                  | 06     | 17    | 05    | 03     | 08    | 25          |
| Cropping Systems                   | 09             | 99                  | 54     | 153   | 45    | 27     | 72    | 225         |

|                                                       |    |    |    |    |    |    |    |     |
|-------------------------------------------------------|----|----|----|----|----|----|----|-----|
| Crop Diversification                                  | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25  |
| Integrated Farming                                    | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25  |
| Water management                                      |    |    |    |    |    |    |    |     |
| Seed production                                       |    |    |    |    |    |    |    |     |
| Nursery management                                    |    |    |    |    |    |    |    |     |
| Integrated Crop Management                            |    |    |    |    |    |    |    |     |
| Fodder production                                     |    |    |    |    |    |    |    |     |
| Production of organic inputs                          |    |    |    |    |    |    |    |     |
| <b>II Horticulture</b>                                |    |    |    |    |    |    |    |     |
| <b>a) Vegetable Crops</b>                             |    |    |    |    |    |    |    |     |
| Production of low volume and high value crops         | 03 | 33 | 18 | 51 | 15 | 09 | 24 | 75  |
| Off-season vegetables                                 |    |    |    |    |    |    |    |     |
| Nursery raising                                       | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25  |
| Exotic vegetables like Broccoli                       |    |    |    |    |    |    |    |     |
| Export potential vegetables                           | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25  |
| Grading and standardization                           |    |    |    |    |    |    |    |     |
| Protective cultivation (Green Houses, Shade Net etc.) |    |    |    |    |    |    |    |     |
| <b>b) Fruits</b>                                      |    |    |    |    |    |    |    |     |
| Training and Pruning                                  |    |    |    |    |    |    |    |     |
| Layout and Management of Orchards                     | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25  |
| Cultivation of Fruit                                  | 04 | 44 | 24 | 68 | 20 | 12 | 32 | 100 |
| Management of young plants/orchards                   |    |    |    |    |    |    |    |     |
| Rejuvenation of old orchards                          |    |    |    |    |    |    |    |     |
| Export potential fruits                               |    |    |    |    |    |    |    |     |
| Micro irrigation systems of orchards                  |    |    |    |    |    |    |    |     |
| Plant propagation techniques                          |    |    |    |    |    |    |    |     |
| <b>c) Ornamental Plants</b>                           |    |    |    |    |    |    |    |     |
| Nursery Management                                    |    |    |    |    |    |    |    |     |
| Management of potted plants                           |    |    |    |    |    |    |    |     |
| Export potential of ornamental plants                 |    |    |    |    |    |    |    |     |
| Propagation techniques of Ornamental Plants           |    |    |    |    |    |    |    |     |
| <b>d) Plantation crops</b>                            |    |    |    |    |    |    |    |     |

|                                                                      |    |    |    |    |    |    |    |    |
|----------------------------------------------------------------------|----|----|----|----|----|----|----|----|
| Production and Management technology                                 | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Processing and value addition                                        |    |    |    |    |    |    |    |    |
| <b>e) Tuber crops</b>                                                |    |    |    |    |    |    |    |    |
| Production and Management technology                                 |    |    |    |    |    |    |    |    |
| Processing and value addition                                        |    |    |    |    |    |    |    |    |
| <b>f) Spices</b>                                                     |    |    |    |    |    |    |    |    |
| Production and Management technology                                 | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Processing and value addition                                        |    |    |    |    |    |    |    |    |
| <b>g) Medicinal and Aromatic Plants</b>                              |    |    |    |    |    |    |    |    |
| Nursery management                                                   |    |    |    |    |    |    |    |    |
| Production and management technology                                 |    |    |    |    |    |    |    |    |
| Post harvest technology and value addition                           |    |    |    |    |    |    |    |    |
| <b>III Soil Health and Fertility Management</b>                      |    |    |    |    |    |    |    |    |
| Soil fertility 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                                               |    |    |    |    |    |    |    |    |
| <b>IV Livestock Production and Management</b>                        |    |    |    |    |    |    |    |    |
| Dairy Management                                                     |    |    |    |    |    |    |    |    |
| Poultry Management                                                   |    |    |    |    |    |    |    |    |
| Piggery Management                                                   |    |    |    |    |    |    |    |    |
| Rabbit Management/goat                                               |    |    |    |    |    |    |    |    |
| Disease Management                                                   |    |    |    |    |    |    |    |    |
| Feed management                                                      |    |    |    |    |    |    |    |    |
| Production of quality animal products                                |    |    |    |    |    |    |    |    |
| <b>V Home Science/Women empowerment</b>                              |    |    |    |    |    |    |    |    |
| 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 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                                        |    |    |    |     |    |    |    |     |
| <b>VI Agril. Engineering</b>                                |    |    |    |     |    |    |    |     |
| Installation and maintenance of micro irrigation systems    | 03 | 33 | 18 | 51  | 15 | 09 | 24 | 75  |
| Use of Plastics in farming practices                        |    |    |    |     |    |    |    |     |
| Production of small tools and implements                    |    |    |    |     |    |    |    |     |
| Repair and maintenance of farm machinery and implements     | 09 | 99 | 54 | 153 | 45 | 27 | 72 | 225 |
| Small scale processing and value addition                   |    |    |    |     |    |    |    |     |
| Post Harvest Technology                                     |    |    |    |     |    |    |    |     |
| <b>VII Plant Protection</b>                                 |    |    |    |     |    |    |    |     |
| Integrated Pest Management                                  | 06 | 66 | 36 | 102 | 30 | 18 | 48 | 150 |
| Integrated Disease Management                               | 04 | 44 | 24 | 68  | 20 | 12 | 32 | 100 |
| Bio-control of pests and diseases                           |    |    |    |     |    |    |    |     |
| Production of bio control agents and bio pesticides         |    |    |    |     |    |    |    |     |
| Natural Farming                                             | 02 | 22 | 12 | 34  | 10 | 06 | 16 | 50  |
| <b>VIII Fisheries</b>                                       |    |    |    |     |    |    |    |     |
| 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            |           |            |            |            |            |            |            |             |
| <b>IX Production of Inputs at site</b>        |           |            |            |            |            |            |            |             |
| 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                       |           |            |            |            |            |            |            |             |
| <b>X Capacity Building and Group Dynamics</b> |           |            |            |            |            |            |            |             |
| Leadership development                        |           |            |            |            |            |            |            |             |
| Group dynamics                                |           |            |            |            |            |            |            |             |
| Formation and Management of SHGs              |           |            |            |            |            |            |            |             |
| Mobilization of social capital                |           |            |            |            |            |            |            |             |
| Entrepreneurial development of farmers/youths |           |            |            |            |            |            |            |             |
| WTO and IPR issues                            |           |            |            |            |            |            |            |             |
| <b>XI Agro-forestry</b>                       |           |            |            |            |            |            |            |             |
| Production technologies                       |           |            |            |            |            |            |            |             |
| Nursery management                            |           |            |            |            |            |            |            |             |
| Integrated Farming Systems                    |           |            |            |            |            |            |            |             |
| Sponsored training                            |           |            |            |            |            |            |            |             |
| <b>TOTAL</b>                                  | <b>48</b> | <b>528</b> | <b>288</b> | <b>816</b> | <b>240</b> | <b>144</b> | <b>384</b> | <b>1200</b> |
| <b>(B) RURAL YOUTH</b>                        |           |            |            |            |            |            |            |             |

|                                                         |    |    |    |    |    |    |    |    |
|---------------------------------------------------------|----|----|----|----|----|----|----|----|
| Mushroom Production                                     | 02 | 22 | 12 | 34 | 10 | 06 | 16 | 50 |
| Bee-keeping                                             |    |    |    |    |    |    |    |    |
| Integrated farming                                      |    |    |    |    |    |    |    |    |
| Seed production                                         | 02 | 22 | 12 | 34 | 10 | 06 | 16 | 50 |
| Production of organic inputs                            |    |    |    |    |    |    |    |    |
| Integrated Farming                                      |    |    |    |    |    |    |    |    |
| Planting material production                            |    |    |    |    |    |    |    |    |
| Vermi-culture                                           |    |    |    |    |    |    |    |    |
| Sericulture                                             |    |    |    |    |    |    |    |    |
| Protected cultivation of vegetable crops                | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Commercial fruit production                             |    |    |    |    |    |    |    |    |
| Repair and maintenance of farm machinery and implements | 02 | 22 | 12 | 34 | 10 | 06 | 16 | 50 |
| Nursery Management of Horticulture crops                | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |
| Training and pruning of orchards                        |    |    |    |    |    |    |    |    |
| Value addition                                          |    |    |    |    |    |    |    |    |
| Production of quality animal products                   |    |    |    |    |    |    |    |    |
| Dairying                                                |    |    |    |    |    |    |    |    |
| Sheep and goat rearing                                  |    |    |    |    |    |    |    |    |
| Quail farming                                           |    |    |    |    |    |    |    |    |
| Piggery                                                 |    |    |    |    |    |    |    |    |
| Rabbit farming                                          |    |    |    |    |    |    |    |    |
| Poultry production                                      |    |    |    |    |    |    |    |    |
| Ornamental fisheries                                    |    |    |    |    |    |    |    |    |
| Para vets                                               |    |    |    |    |    |    |    |    |
| Para extension workers                                  |    |    |    |    |    |    |    |    |
| Composite fish culture                                  |    |    |    |    |    |    |    |    |
| Freshwater prawn culture                                |    |    |    |    |    |    |    |    |
| Shrimp farming                                          |    |    |    |    |    |    |    |    |
| Pearl culture                                           |    |    |    |    |    |    |    |    |
| Cold water fisheries                                    |    |    |    |    |    |    |    |    |
| Fish harvest and processing technology                  |    |    |    |    |    |    |    |    |
| Fry and fingerling rearing                              |    |    |    |    |    |    |    |    |

|                                                       |           |            |            |            |            |            |            |             |
|-------------------------------------------------------|-----------|------------|------------|------------|------------|------------|------------|-------------|
| Small scale processing                                |           |            |            |            |            |            |            |             |
| Post Harvest Technology                               |           |            |            |            |            |            |            |             |
| Tailoring and Stitching                               |           |            |            |            |            |            |            |             |
| Rural Crafts                                          |           |            |            |            |            |            |            |             |
| <b>TOTAL</b>                                          | <b>08</b> | <b>88</b>  | <b>48</b>  | <b>136</b> | <b>40</b>  | <b>24</b>  | <b>64</b>  | <b>200</b>  |
| <b>(C) Extension Personnel</b>                        |           |            |            |            |            |            |            |             |
| Productivity enhancement in field crops               | 01        | 11         | 06         | 17         | 05         | 03         | 08         | 25          |
| Integrated Pest Management                            | 01        | 11         | 06         | 17         | 05         | 03         | 08         | 25          |
| 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 | <b>01</b> | <b>11</b>  | <b>06</b>  | <b>17</b>  | <b>05</b>  | <b>03</b>  | <b>08</b>  | <b>25</b>   |
| WTO and IPR issues                                    |           |            |            |            |            |            |            |             |
| Management in farm animals                            |           |            |            |            |            |            |            |             |
| Livestock feed and fodder production                  |           |            |            |            |            |            |            |             |
| Household food security                               | <b>01</b> | <b>11</b>  | <b>06</b>  | <b>17</b>  | <b>05</b>  | <b>03</b>  | <b>08</b>  | <b>25</b>   |
| Women and Child care                                  |           |            |            |            |            |            |            |             |
| Low cost and nutrient efficient diet designing        |           |            |            |            |            |            |            |             |
| Production and use of organic inputs                  |           |            |            |            |            |            |            |             |
| Gender mainstreaming through SHGs                     |           |            |            |            |            |            |            |             |
| Any other (Pl. Specify)                               |           |            |            |            |            |            |            |             |
| <b>Total</b>                                          | <b>04</b> | <b>44</b>  | <b>24</b>  | <b>68</b>  | <b>20</b>  | <b>12</b>  | <b>32</b>  | <b>100</b>  |
| <b>G. TOTAL</b>                                       | <b>48</b> | <b>528</b> | <b>288</b> | <b>816</b> | <b>240</b> | <b>144</b> | <b>384</b> | <b>1200</b> |

### 3.4. Extension Activities (including activities of FLD programmes)

| Nature of Extension Activity           | No. of activities | Farmers |        |       | Extension Officials |        |       | Total |        |       |
|----------------------------------------|-------------------|---------|--------|-------|---------------------|--------|-------|-------|--------|-------|
|                                        |                   | Male    | Female | Total | Male                | Female | Total | Male  | Female | Total |
| Field Day                              | 04                | 85      | 13     | 98    | 2                   | 0      | 2     | 87    | 13     | 100   |
| Kisan Mela                             | 03                | 396     | 104    | 500   | 11                  | 03     | 14    | 407   | 107    | 514   |
| Kisan Ghosthi                          | 04                | 164     | 36     | 200   | 0                   | 0      | 0     | 164   | 36     | 200   |
| Exhibition                             | 03                | 396     | 104    | 500   | 11                  | 03     | 14    | 407   | 107    | 514   |
| Film Show                              |                   |         |        |       |                     |        |       |       |        |       |
| Farmers Seminar                        |                   |         |        |       |                     |        |       |       |        |       |
| Workshop                               |                   |         |        |       |                     |        |       |       |        |       |
| Group meetings                         |                   |         |        |       |                     |        |       |       |        |       |
| Lectures delivered as resource persons |                   |         |        |       |                     |        |       |       |        |       |
| Newspaper coverage                     |                   |         |        |       |                     |        |       |       |        |       |
| Radio talks                            |                   |         |        |       |                     |        |       |       |        |       |
| TV talks                               |                   |         |        |       |                     |        |       |       |        |       |
| Popular articles                       |                   |         |        |       |                     |        |       |       |        |       |
| Extension Literature                   |                   |         |        |       |                     |        |       |       |        |       |
| Advisory Services                      |                   |         |        |       |                     |        |       |       |        |       |
| Scientific visit to farmers field      | 50                | 163     | 62     | 225   | 0                   | 0      | 0     | 163   | 62     | 225   |
| Farmers visit to KVK                   |                   |         |        |       |                     |        |       |       |        |       |
| Diagnostic visits                      |                   |         |        |       |                     |        |       |       |        |       |
| Exposure visits                        |                   |         |        |       |                     |        |       |       |        |       |
| Ex-trainees Sammelan                   | 02                | 100     | 20     | 120   | 0                   | 0      | 0     | 100   | 20     | 120   |
| Soil health Camp                       | 01                | 153     | 47     | 200   | 0                   | 0      | 0     | 153   | 47     | 200   |
| Animal Health Camp                     | 01                | 39      | 09     | 50    | 01                  | 01     | 02    | 40    | 10     | 50    |
| Agri mobile clinic                     |                   |         |        |       |                     |        |       |       |        |       |
| Soil test campaigns                    | 01                | 120     | 30     | 150   | 0                   | 0      | 0     | 120   | 30     | 150   |
| Farm Science Club                      |                   |         |        |       |                     |        |       |       |        |       |
| Conveners meet                         |                   |         |        |       |                     |        |       |       |        |       |
| Self Help Group Conveners              | 02                | 75      | 25     | 100   | 0                   | 0      | 0     | 75    | 25     | 100   |

|                                         |           |             |            |             |           |          |           |             |            |             |
|-----------------------------------------|-----------|-------------|------------|-------------|-----------|----------|-----------|-------------|------------|-------------|
| meetings                                |           |             |            |             |           |          |           |             |            |             |
| MahilaMandals Conveners meetings        |           |             |            |             |           |          |           |             |            |             |
| Celebration of important days (specify) | 10        | 320         | 180        | 500         | 0         | 0        | 00        | 320         | 180        | 500         |
| KrishiMohostva                          |           |             |            |             |           |          |           |             |            |             |
| KrishiRath                              |           |             |            |             |           |          |           |             |            |             |
| Pre Kharif workshop                     |           |             |            |             |           |          |           |             |            |             |
| Pre Rabi workshop                       |           |             |            |             |           |          |           |             |            |             |
| PPVFRA workshop                         |           |             |            |             |           |          |           |             |            |             |
| Any Other (Specify)                     |           |             |            |             |           |          |           |             |            |             |
|                                         |           |             |            |             |           |          |           |             |            |             |
| <b>Total</b>                            | <b>81</b> | <b>2011</b> | <b>630</b> | <b>2643</b> | <b>25</b> | <b>7</b> | <b>32</b> | <b>2036</b> | <b>637</b> | <b>2673</b> |

### 3.5 Target for Production and supply of Technological products

#### A) SEED MATERIALS

| Sl. No.                 | Crop         | Variety              | Quantity (qt.) |
|-------------------------|--------------|----------------------|----------------|
| <b>CEREALS</b>          | <b>Rice</b>  | <b>SabourHarshit</b> | <b>200</b>     |
|                         | <b>Wheat</b> | <b>HD-2967</b>       | <b>200</b>     |
| <b>OILSEEDS</b>         |              |                      |                |
|                         |              |                      |                |
| <b>PULSES</b>           |              |                      |                |
|                         |              |                      |                |
| <b>VEGETABLES</b>       |              |                      |                |
|                         |              |                      |                |
| <b>OTHERS (Specify)</b> |              |                      |                |
|                         |              |                      |                |

#### B) PLANTING MATERIALS

| Sl. No.                 | Crop                                                                            | Variety                            | Quantity (Nos.) |
|-------------------------|---------------------------------------------------------------------------------|------------------------------------|-----------------|
| <b>FRUITS</b>           | Guava                                                                           | L-49, Allahabad Safeda             | 500             |
|                         | Litchi                                                                          | Sahi, SabourMadhu, China           | 500             |
|                         | Mango                                                                           | Amrapali, Maldah, Jardalu, Mallika | 1500            |
|                         | Passion Fruit                                                                   |                                    | 500             |
| <b>SPICES</b>           |                                                                                 |                                    |                 |
|                         |                                                                                 |                                    |                 |
| <b>VEGETABLES</b>       |                                                                                 |                                    |                 |
|                         | Curry leaf                                                                      | Dwarf                              | 500             |
|                         | Brinjal, Chilli, Bottle gourd, Bitter gourd,<br>Cucumber, Cabbage, Cauliflower, | Hybrid                             | 20,000          |
|                         |                                                                                 |                                    |                 |
| <b>FOREST SPECIES</b>   |                                                                                 |                                    |                 |
|                         |                                                                                 |                                    |                 |
| <b>ORNAMENTAL CROPS</b> |                                                                                 |                                    |                 |
|                         |                                                                                 | <b>Total</b>                       | <b>23,500</b>   |

**C) BIO-PRODUCT**

| Sl. No.               | Product Name | Species | Quantity |      |
|-----------------------|--------------|---------|----------|------|
|                       |              |         | No       | (kg) |
| <b>BIO PESTICIDES</b> |              |         |          |      |
| 1                     |              |         |          |      |

**D) LIVESTOCK**

| Sl. No.     | Type                     | Breed     | Quantity |      |
|-------------|--------------------------|-----------|----------|------|
|             |                          |           | (Nos)    | Unit |
| Cattle      |                          |           |          |      |
| GOAT        |                          |           |          |      |
| SHEEP       |                          |           |          |      |
| POULTRY     | Backyard Poultry Farming | Karaknath | 100      | 01   |
| Duck        | Duckry farming           | Khakhi    | 50       | 01   |
| Pig farming |                          |           |          |      |

|           |  |  |  |  |
|-----------|--|--|--|--|
| FISHERIES |  |  |  |  |
|           |  |  |  |  |

### 3.6 Literature to be Developed/Published

#### (A) KVK News Letter

Date of start : August

Number of copies to be published : 03 (3000 Copies)

#### (B) Literature to be developed/published

| S.No. | Topic                          | Number    |
|-------|--------------------------------|-----------|
| 1     | Research paper each scientist  | 01        |
| 2     | Technical reports              | 01        |
| 3     | News letters                   | 02        |
| 4     | Training manual all discipline | 00        |
| 5     | Popular article                | 02        |
| 6     | Extension literature           | 02        |
|       | <b>Total</b>                   | <b>08</b> |

#### (C) Details of Electronic Media to be Produced

| S. No. | Type of media (CD / VCD / DVD / Audio-Cassette, whatsapp group, mobile app, etc. | Title of the product                                         | Number |
|--------|----------------------------------------------------------------------------------|--------------------------------------------------------------|--------|
| 1      | whatsapp group,                                                                  | All training activity, Action Photographs, Interactive video | 200    |
| 2      | Facebook                                                                         | All training activity, Action Photographs, Interactive video | 100    |
| 3      | Happening at BAU                                                                 | All training activity, Action Photographs                    | 04     |
| 4      | News Paper Coverage                                                              | All training activity, Action Photographs                    | 24     |

**3.7. Success stories/Case studies identified for development as a case. - 02**

- a. Brief introduction/Background
- b. Interventions/process
- c. Output
- d. Outcomes
- e. Impact

- i) Social economic

- ii) Bio-Physical

- f. Good Action Photographs

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) PRA
- b) Farmers Meeting
- c) Feedback

**Rural Youth**

- a) PRA
- b) Farmers Meeting
- c) Feedback
- d) Knowledge Scaling

**In-service personnel**

- a) PRA
- b) Farmers Meeting
- c) Feedback

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT:**

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

**For FLD:**

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any
- v)

### 3.10 Field activities

- i. Name of villages identified/adopted with block name (from which year) -
- |                             |                   |
|-----------------------------|-------------------|
| 1. Village :-Amni,          | Block :- Mansi    |
| 2. Village :-Ranko          | Block :- Khagaria |
| 3. Village:-Devka,          | Block :-Choutham  |
| 4. Village:-Sansarpur,      | Block :-Khagaria  |
| 5. Village:-Sondiha,        | Block:-Gogri      |
| 6. Village:-Kulhariya,      | Block:-Parbatta   |
| 7. Village:-Imli,           | Block:-Alouli     |
| 8. Village :- North Bhadas, | Block :- Khagaria |
| 9. Village :-Telounchh,     | Block:- Choutham  |
| 10. Village :-Sonihar,      | Block :- Alouli   |
| 11. Village :-Pansalwa,     | Block :- Beldour  |
- ii. No. of farm families selected per village : 70 Families
- iii. No. of PRA conducted : 07 Village
- iv. No. of technologies taken to the adopted villages : 10
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

### 3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

1. Year of establishment : NA

2. List of equipment's purchase with amount

| Sl. No. | Name of the equipment | Quantity | Cost (Rs) |
|---------|-----------------------|----------|-----------|
|---------|-----------------------|----------|-----------|

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

### 3. Targets of samples for analysis:

| Details      | No. of Samples | No. of Farmers | No. of Villages | Amount to be realized |
|--------------|----------------|----------------|-----------------|-----------------------|
| Soil Samples |                |                |                 |                       |
| Water        |                |                |                 |                       |
| Plant        |                |                |                 |                       |
| <b>Total</b> |                |                |                 |                       |

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations/department

| Sl. No. | Name of organization | Nature of linkage                                                                                                                                                                                                                                                                                                        | Outcome of linkage                                               |
|---------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 01      | ATMA                 | Participation in different govtprogrammes such as Kharif and Rabi Mahotsav, KrishiYantrikaranmela and others, farmers scientist interaction, short term research on technical refinement and validation, demonstration on onion, demonstration on maize, sending farmers in exposure visits and KisanMela at BAU, Sabour | Awareness among the farmers of different technology              |
| 02      | DAO                  | Conducting training programmes, workshops, field surveys                                                                                                                                                                                                                                                                 | Awareness among the farmers of different technology              |
| 03      | DHO                  | Participation in technology week, conducted training programmes                                                                                                                                                                                                                                                          | Awareness among the farmers of different technology              |
| 04      | Jeevika              | Training Honey bee keeping and honey production, Installation of exhibition stall during awareness programme on PradhanmantriPhasalBeemaYojna                                                                                                                                                                            | Awareness & adoption of entrepreneurship for income generation . |
| 05      | National Bee Board   | Training programmes for rural women on Honey bee keeping and honey production                                                                                                                                                                                                                                            | Provide honey bee boxes among the trained youths                 |
| 06      | NABARD               | Kisan club formation, Training and other programmes                                                                                                                                                                                                                                                                      | Establishment of FPO on                                          |

|    |                                         |                            |               |
|----|-----------------------------------------|----------------------------|---------------|
|    |                                         |                            | banana fibers |
| 07 | Sudha Dairy, Khagaria                   | Training and field visit   |               |
| 08 | IFFCO                                   | Training and demonstration |               |
| 09 | District Industries Center,<br>Khagaria | Training                   |               |
| 10 | RSETI, Khagaria                         | Training                   |               |
| 11 | ICDS                                    | Training                   |               |

#### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district                      Yes

| S. No. | Programme | Nature of linkage                                                                               | Outcome of linkage                |
|--------|-----------|-------------------------------------------------------------------------------------------------|-----------------------------------|
| 1      | Trainings | Collaboration and Coordination to improve agricultural practices, farmer to farmer & marketing. | Adoption of technology by farmers |
| 2      | KisanMela | Collaboration and Coordination to improve agricultural practices, farmer to farmer & marketing. | Adoption of technology by farmers |
| 3      | Field Day | Collaboration and Coordination to improve agricultural practices, farmer to farmer & marketing. | Adoption of technology by farmers |

#### 5. Utilization of Hostel facilities

| S. No. | Programme | No. of days |
|--------|-----------|-------------|
| 1      | RAWE      | 120         |
| 2      | RAWE      | 120         |
| Total  |           | 240         |

## 6. Partnership with departments for technology out scaling (proposed):

### Annexure - I Training Programme

#### i) Farmers & Farm women (On Campus)

| Date            | Client | Title of the training programme                                     | Duration in days | Number of participants |    |    | Number of SC/ST |    |    | G. Total | Month of training  |
|-----------------|--------|---------------------------------------------------------------------|------------------|------------------------|----|----|-----------------|----|----|----------|--------------------|
|                 |        |                                                                     |                  | M                      | F  | T  | M               | F  | T  |          |                    |
| Crop Production | PF/FW  | Cultivation techniques of green gram.                               | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | Jan to March 2026  |
|                 | PF/FW  | Cultivation techniques of green gram.                               | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       |                    |
|                 | PF/FW  | Cultivation techniques of maize crops.                              | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | Oct to Dec 2026    |
|                 | PF/FW  | Direct Seeded Rice .                                                | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | April to June 2026 |
|                 | PF/FW  | Cultivation techniques of soybean.                                  | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | July to Sept 2026  |
|                 | PF/FW  | Integrated nutrient management in paddy.                            | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | July to Sept 2026  |
| Horticulture    | PF/FW  | Nutri garden management in summer seasons                           | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | Jan to March 2026  |
|                 | PF/FW  | Integrated nutrient management in mango                             | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | April to June 2026 |
|                 | PF/FW  | Integrated nutrient management in banana                            | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | July to Sept 2026  |
|                 | PF/FW  | Orchard management techniques in mango                              | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | Oct to Dec 2026    |
| Agril. Engg.    | PF/FW  | Types of drip & sprinkler irrigation system and their establishment | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | Jan to March 2026  |
|                 | PF/FW  | Different techniques of crop residue                                | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | April to           |

|                 |       |                                                                                |    |    |    |    |    |    |    |    |                    |
|-----------------|-------|--------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|--------------------|
|                 |       | management                                                                     |    |    |    |    |    |    |    |    | June 2026          |
|                 | PF/FW | Solar power irrigation system                                                  | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                 | PF/FW | Alternate wetting and drying techniques and their installation in Paddy crops. | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | July to Sept 2026  |
|                 | PF/FW | Role of different farm machinery for climate smart agriculture.                | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Oct to Dec 2026    |
| Plan protection | PF/FW | Integrated pest management in green gram                                       | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Jan to March 2026  |
|                 | PF/FW | Integrated pest management in green gram                                       | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                 | PF/FW | Integrated pest management in banana                                           | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | April to June 2026 |
|                 | PF/FW | Integrated pest management in kharif maize                                     | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | July to Sept 2026  |
|                 | PF/FW | Integrated pest management in mustard                                          | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Oct to Dec 2026    |

**i) Farmers & Farm women (Off Campus)**

| Date            | Client | Title of the training programme          | Duration in days | Number of participants |    |    | Number of SC/ST |    |    | G. Total | Month of training  |
|-----------------|--------|------------------------------------------|------------------|------------------------|----|----|-----------------|----|----|----------|--------------------|
|                 |        |                                          |                  | M                      | F  | T  | M               | F  | T  |          |                    |
| Crop Production | PF/FW  | Cultivation techniques of Sunflower.     | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | Jan to March 2026  |
|                 | PF/FW  | Cultivation techniques of Soybean crops. | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | April to June 2026 |
|                 | PF/FW  | Cultivation techniques of kharifmaize .  | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       |                    |
|                 | PF/FW  | Cultivation techniques of paddy.         | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | July to Sept 2026  |
|                 | PF/FW  | Cultivation techniques of mustard crops. | 01               | 11                     | 06 | 17 | 05              | 03 | 08 | 25       | Oct to             |

|                  |       |                                                                |    |    |    |    |    |    |    |    |                    |
|------------------|-------|----------------------------------------------------------------|----|----|----|----|----|----|----|----|--------------------|
|                  | PF/FW | Cultivation techniques of wheat crops.                         | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Dec 2026           |
| Horticulture     | PF/FW | Techniques of nursery management in cucumber.                  | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Jan to March 2026  |
|                  | PF/FW | Cultivation techniques of cucurbits vegetable                  | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                  | PF/FW | Commercial cultivation of turmeric                             | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | April to June 2026 |
|                  |       | Scientific cultivation of makhana                              | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                  | PF/FW | Method of planting techniques in banana                        | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | July to Sept 2026  |
|                  | PF/FW | Method of planting in tomato crops                             | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                  | PF/FW | Scientific cultivation of cole crops.                          | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Oct to Dec 2026    |
|                  | PF/FW | Integrated nutrient management in mango                        | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                  |       |                                                                |    |    |    |    |    |    |    |    |                    |
| Agril. Engg.     | PF/FW | Use & benefits of zero tillage machine                         | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Jan to March 2026  |
|                  | PF/FW | Benefits of laser land leveller                                | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                  | PF/FW | Calibration of zero tillage machine for DSR                    | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | April to June 2026 |
|                  | PF/FW | Benefits of raised bed planter for kharif maize                | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | July to Sept 2026  |
|                  | PF/FW | Care and maintenance of tractor.                               | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
|                  | PF/FW | Calibration of multi crop planter for wheat                    | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Oct to Dec 2026    |
|                  | PF/FW | Sowing of Maize through different dibblers.                    | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |
| Plant protection | PF/FW | Insect and disease management under natural farming in brinjal | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Jan to March 2026  |
|                  | PF/FW | Integrated disease management in banana                        | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | April to June      |
|                  | PF/FW | Insect and disease management under                            | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                    |

|  |       |                                          |    |    |    |    |    |    |    |    |                   |
|--|-------|------------------------------------------|----|----|----|----|----|----|----|----|-------------------|
|  |       | natural farming in Brinjal               |    |    |    |    |    |    |    |    | 2026              |
|  | PF/FW | Integrated disease management in paddy   | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | July to Sept 2026 |
|  | PF/FW | Integrated disease management in Ragi.   | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                   |
|  | PF/FW | Integrated disease management in mustard | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Oct to Dec 2026   |
|  | PF/FW | Integrated pest management in maize.     | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 |                   |

### ii) Vocational training programmes for Rural Youth

| Crop / Enterprise | Identified Thrust Area                   | Training title*                                      | Duration (days) | No. of Participants |    |    | SC/ST participants |    |    | G.Total | Month of training |
|-------------------|------------------------------------------|------------------------------------------------------|-----------------|---------------------|----|----|--------------------|----|----|---------|-------------------|
|                   |                                          |                                                      |                 | M                   | F  | T  | M                  | F  | T  |         |                   |
| Bee Keeping       | Bee Keeper                               | Small Scale Income Generation Enterprises            | 05              | 11                  | 06 | 17 | 05                 | 03 | 08 | 25      | Jan to Dec 2026   |
| High value crop   | Protected Cultivation of Vegetable crops | Protected Cultivation of high value Vegetable crops  | 05              | 11                  | 06 | 17 | 05                 | 03 | 08 | 25      |                   |
| Vermicompost      | Vermicompost Producer                    | Small Scale Income Generation Enterprises            | 05              | 11                  | 06 | 17 | 05                 | 03 | 08 | 25      |                   |
| Farm Machinery    | Care & maintenance of tractor            | Repair & maintenance of farm machinery & equipment's | 05              | 11                  | 06 | 17 | 05                 | 03 | 08 | 25      |                   |

### iii) Training programme for extension functionaries

| Date               | Client       | Title of the training programme                               | Duration in days | No. of participants |    |    | Number of SC/ST |    |    | G. Total | Month of training  |
|--------------------|--------------|---------------------------------------------------------------|------------------|---------------------|----|----|-----------------|----|----|----------|--------------------|
|                    |              |                                                               |                  | M                   | F  | T  | M               | F  | T  |          |                    |
| On Campus          |              |                                                               |                  |                     |    |    |                 |    |    |          |                    |
| April to June 2026 | Agronomy     | Introduction of climate resilient varieties of paddy          | 01               | 11                  | 06 | 17 | 05              | 03 | 08 | 25       | April to June 2026 |
| April to June 2026 | Horticulture | Preparation & maintenance of nutri garden in different season | 01               | 11                  | 06 | 17 | 05              | 03 | 08 | 25       | April to June 2026 |

|                 |                  |                                                                                   |    |    |    |    |    |    |    |    |                 |
|-----------------|------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|-----------------|
| Oct to Dec 2026 | Plant Protection | Integrated Pest Management in Maize                                               | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Oct to Dec 2026 |
|                 |                  |                                                                                   |    |    |    |    |    |    |    |    |                 |
| Oct to Dec 2026 | Ag. Engg.        | Emerging engineering technology under the Climate Resilient Agriculture programme | 01 | 11 | 06 | 17 | 05 | 03 | 08 | 25 | Oct to Dec 2026 |

#### iv) Sponsored programme

| Discipline                      | Sponsoring agency | Client | Title of the training programme | No. of course | No. of participants |     |     | Number of SC/ST |     |     | G. Total |
|---------------------------------|-------------------|--------|---------------------------------|---------------|---------------------|-----|-----|-----------------|-----|-----|----------|
|                                 |                   |        |                                 |               | M                   | F   | T   | M               | F   | T   |          |
| a) Sponsored training programme |                   |        |                                 |               |                     |     |     |                 |     |     |          |
|                                 |                   |        |                                 |               |                     |     |     |                 |     |     |          |
|                                 |                   |        | Total                           |               |                     |     |     |                 |     |     |          |
| b) Sponsored research programme |                   |        |                                 |               |                     |     |     |                 |     |     |          |
|                                 |                   |        |                                 |               |                     |     |     |                 |     |     |          |
|                                 |                   |        | Total                           |               |                     |     |     |                 |     |     |          |
| c) Any special programmes       |                   |        |                                 |               |                     |     |     |                 |     |     |          |
|                                 |                   | PF     | PM Kisan live telecast          | 03            | 33                  | 18  | 51  | 15              | 09  | 24  | 75       |
|                                 |                   | PF     | “ Parthenium Awareness Week”    | 01            | 11                  | 06  | 17  | 05              | 03  | 08  | 25       |
|                                 |                   | PF     | Balance use of fertilizer       | 15            | 165                 | 90  | 255 | 75              | 45  | 120 | 375      |
|                                 |                   | PF     | BhumiSuposhanProg.              | 15            | 165                 | 90  | 255 | 75              | 45  | 120 | 375      |
|                                 |                   | PF     | SwachhataPakhwara”              | 05            | 55                  | 30  | 85  | 25              | 15  | 40  | 125      |
|                                 |                   |        | Total                           |               | 429                 | 234 | 663 | 195             | 117 | 312 | 975      |

**Senior Scientist & Head  
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