

# ACTION PLAN PROFORMA FOR THE KVK

(1<sup>st</sup> January to 31 December, 2025)

## 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                 | Website                |
|---------------------------------------------------|-----------------------|-----|------------------------|------------------------|
| Divyayan KVK, Ranchi<br>Morabadi, Ranchi - 834008 | Office<br>06512551008 | FAX | kvk.divyayan@gmail.com | https://ranchi.kvk4.in |

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

| Address                                       | Telephone    |     | E mail                  | Website                   |
|-----------------------------------------------|--------------|-----|-------------------------|---------------------------|
|                                               | Office       | FAX |                         |                           |
| Ramakrishna Mission Ashrama, Morabadi, Ranchi | 0651-2551008 | -   | ranchi.morabadi@rkmm.or | https://www.rkmranchi.org |

1.2.b. Status of KVK website : Yes/ No;Yes Date when the website last updated: 11.7.2025

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : 98405

1.2.d Status of ICT lab at your KVK :

- a) No. of PC units : 5
- b) No. of Printers : Nil
- c) Internet connection : Yes/No - Yes

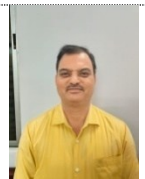
### 1.3. Name of the Senior Scientist & Head with phone & mobile no.

| Name                  | Telephone / Contact |            |                        |
|-----------------------|---------------------|------------|------------------------|
|                       | Office              | Mobile     | Email                  |
| Dr. Ajeet Kumar Singh | 06512551008         | 9430379197 | kvk.divyayan@gmail.com |

1.4. Year of sanction: 1977

### 1.5. Staff Position (as on 1<sup>st</sup>January, 2025)

| Sl. No. | Sanctioned post         | Name of the incumbent | Designation             | Discipline   | Pay Scale (Rs.)                                                  | Grade Pay | Present basic (Rs.) | Date of joining | Permanent /Temporary | Category (SC/ST/OBC / Others) | Mobile No. | Email id                 | Please attach recent photograph                                                       |
|---------|-------------------------|-----------------------|-------------------------|--------------|------------------------------------------------------------------|-----------|---------------------|-----------------|----------------------|-------------------------------|------------|--------------------------|---------------------------------------------------------------------------------------|
| 1       | Senior Scientist & Head | Dr. Ajeet Kumar Singh | Senior Scientist & Head | Soil Science | As per 6th CPC- 37400 - 67000<br>As per 7th CPC - Pay Level- 13A | 9000      | 1,71,400            | 01-01-2012      | Permanent            | Others                        | 9430379197 | singhajeet1978@gmail.com |  |

|   |                                 |                          |                                                            |                           |                                                            |      |        |            |           |        |               |                              |                                                                                       |
|---|---------------------------------|--------------------------|------------------------------------------------------------|---------------------------|------------------------------------------------------------|------|--------|------------|-----------|--------|---------------|------------------------------|---------------------------------------------------------------------------------------|
| 2 | Subject Matter Specialist (SMS) | Dr. Rajesh Kumar         | Subject Matter Specialist (SMS)- Plant Protection          | Ag - Entomology           | As per 6th CPC-15600 - 39100 As per 7th CPC- Pay Level -10 | 5400 | 90,000 | 01-02-2007 | Permanent | OBC    | 797 987 974 6 | rajeshr km 07 @gmail.com     |     |
| 3 | Subject Matter Specialist (SMS) | Dr. Manoj Kumar Singh    | Subject Matter Specialist (SMS)- Agronomy                  | Agronomy                  | As per 6th CPC-15600 - 39100 As per 7th CPC- Pay Level -10 | 5400 | 90,000 | 01-02-2007 | Permanent | Others | 790 349 257 4 | manojshringhdk vk @gmail.com |    |
| 4 | Subject Matter Specialist (SMS) | Dr. Bharat Mahto         | Subject Matter Specialist (SMS)- Animal Husbandry          | Animal Husbandry          | As per 6th CPC-15600 - 39100 As per 7th CPC- Pay Level -10 | 5400 | 90,000 | 01-04-2007 | Permanent | OBC    | 995 553 290 3 | bharatrk @gmail.com          |    |
| 5 | Subject Matter Specialist (SMS) | Dr. Neha Rajan           | Subject Matter Specialist (SMS)- Genetics & Plant Breeding | Genetics & Plant Breeding | as per 6th CPC-15600 - 39100 as per 7th CPC- Pay Level -10 | 5400 | 77,700 | 15-10-2012 | Permanent | OBC    | 620 187 980 9 | nehara.jan 96 @gmail.com     |  |
| 6 | Subject Matter Specialist (SMS) | Dr. Ravindra Kumar Singh | Subject Matter Specialist (SMS)- Horticulture              | Horticulture              | as per 6th CPC-15600 - 39100 as per 7th CPC- Pay Level -10 | 5400 | 65,000 | 01-07-2019 | Permanent | Others | 765 191 288 5 | ravi11deep @gmail.com        |  |

|    |                                      |                        |                                                |              |                                                            |      |        |            |           |        |            |                        |                                                                                       |
|----|--------------------------------------|------------------------|------------------------------------------------|--------------|------------------------------------------------------------|------|--------|------------|-----------|--------|------------|------------------------|---------------------------------------------------------------------------------------|
| 7  | Subject Matter Specialist (SMS)      | Dr. Vishakh Singh      | Subject Matter Specialist (SMS) - Home Science | Home Science | as per 6th CPC-15600 - 39100 as per 7th CPC- Pay Level -10 | 5400 | 61,300 | 23-03-2022 | Permanent | Others | 6002370830 | vishunutri92@gmail.com |     |
| 8  | Programme Assistant (Lab Technician) | Sri Om Prakash Sharma  | Programme Assistant (Lab Technician)           |              | as per 6th CPC-9300-34800 as per 7th CPC Pay Level-6       | 4200 | 62,200 | 01-02-2007 | Permanent | Others | 9835198023 | opsdkvk@gmail.com      |    |
| 9  | Farm Manager                         | Sri Santosh Kumar      | Farm Manager                                   |              | As per 6th CPC-9300-34800 As per 7th CPC Pay Level-6       | 4200 | 62,200 | 01-02-2007 | Permanent | OBC    | 8709920134 | santoshdkvk@gmail.com  |    |
| 10 | Assistant                            | Sri Narayan Ohdar      | Assistant                                      |              | As per 6th CPC-9300-34800 As per 7th CPC Pay Level-6       | 4200 | 62,200 | 01-11-2007 | Permanent | OBC    | 7903155240 | nohdar@gmail.com       |   |
| 11 | Programme Assistant (Computer)       | Sri Prafulla Kumar Sio | Programme Assistant (Computer)                 |              | As per 6th CPC-9300-34800 As per 7th CPC Pay Level-6       | 4200 | 62,200 | 01-02-2007 | Permanent | Others | 7717760574 | prafulsio@gmail.com    |  |

|    |                         |                                      |                         |  |                                                                                              |          |            |                        |               |        |                        |                                                                 |                                                                                       |
|----|-------------------------|--------------------------------------|-------------------------|--|----------------------------------------------------------------------------------------------|----------|------------|------------------------|---------------|--------|------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 12 | Steno<br>graph<br>er    | Sri<br>Rahul<br>Ray                  | Steno<br>graph<br>er    |  | As<br>per<br>6th<br>CPC-<br>5200-<br>20200<br>As<br>per<br>7th<br>CPC-<br>Pay<br>Level-<br>4 | 240<br>0 | 33,3<br>00 | 01-<br>09-<br>201<br>5 | Perm<br>anent | OBC    | 829<br>245<br>503<br>1 | rhl1<br>319<br>93<br>@g<br>mai<br>l.co<br>m                     |    |
| 13 | Drive<br>r              | Sri<br>Amit<br>Bhatt<br>achar<br>jee | Drive<br>r              |  | Asper<br>6th<br>CPC-<br>5200-<br>20200<br>As<br>per<br>7th<br>CPC-<br>Pay<br>Level-<br>3     | 200<br>0 | 37,2<br>00 | 01-<br>11-<br>200<br>7 | Perm<br>anent | Others | 790<br>315<br>286<br>8 | ami<br>tra<br>nch<br>i.92<br>@g<br>mai<br>l.co<br>m             |    |
| 14 | Drive<br>r              | Sri<br>Rajen<br>draM<br>ahto         | Drive<br>r              |  | Asper<br>6th<br>CPC-<br>5200-<br>20200<br>As<br>per<br>7th<br>CPC-<br>Pay<br>Level-<br>3     | 200<br>0 | 23,8<br>00 | 21-<br>01-<br>202<br>1 | Perm<br>anent | OBC    | 620<br>472<br>405<br>7 | Raj<br>end<br>ram<br>aht<br>o21<br>48<br>@g<br>mai<br>l.co<br>m |    |
| 15 | Supp<br>orting<br>Staff | Sri<br>Moha<br>n<br>Maht<br>o        | Supp<br>orting<br>Staff |  | As<br>per<br>6th<br>CPC-<br>5200-<br>20200<br>As<br>per<br>7th<br>CPC-<br>Pay<br>Level<br>-1 | 180<br>0 | 30,6<br>00 | 01-<br>02-<br>200<br>7 | Perm<br>anent | OBC    | 990<br>571<br>830<br>1 | mo<br>han<br>ma<br>hto<br>201<br>5@<br>gm<br>ail.c<br>om        |  |
| 16 | Supp<br>orting<br>Staff | Sri<br>Deepa<br>k<br>Paha<br>n       | Supp<br>orting<br>Staff |  | As<br>per<br>6th<br>CPC-<br>5200-<br>20200<br>As<br>per<br>7th<br>CPC-<br>Pay<br>Level<br>-1 | 180<br>0 | 22,1<br>00 | 01-<br>04-<br>201<br>7 | Perm<br>anent | ST     | 773<br>949<br>267<br>4 | ww<br>w.d.<br>pah<br>an<br>@g<br>mai<br>l.co<br>m               |  |

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

| S. No. | Item                      | Area (ha) |
|--------|---------------------------|-----------|
| 1      | Under Buildings           | 0.374     |
| 2.     | Under Demonstration Units | 0.086     |
| 3.     | Under Crops               | 23.600    |

|    |                     |        |
|----|---------------------|--------|
| 4. | Orchard             | 10.00  |
| 5. | Agro-forestry       | 25.140 |
| 6. | Others with details | 0.00   |
|    | Total               | 59.20  |

### 1.7. Infrastructural Development:

#### A) Buildings

| S. No. | Name of building             | Source of funding |      | Stage           |                    |                   |               |                    |                        |
|--------|------------------------------|-------------------|------|-----------------|--------------------|-------------------|---------------|--------------------|------------------------|
|        |                              | ICAR              | RKVY | Complete        |                    |                   | Incomplete    |                    |                        |
|        |                              |                   |      | Completion Year | Plinth area (Sq.m) | Expenditure (Rs.) | Starting year | Plinth area (Sq.m) | Status of construction |
| 1.     | Administrative Building      | ICAR              |      | 1988            | 172.06             | 529095            | -             | -                  | -                      |
| 2.     | Farmers Hostel               |                   | RKVY | 2014            |                    | 8500000           | -             | -                  | -                      |
| 3.     | Staff Quarters (6)           | ICAR              |      | 1995            | 751.40             | 1466802           | -             | -                  | -                      |
| 4.     | Demonstration Units (2)      | ICAR              |      | 1985            | 499.91             | 337384            | -             | -                  | -                      |
| 5      | Fencing                      |                   |      |                 |                    |                   | -             | -                  | -                      |
| 6      | Rain Water harvesting system | ICAR              |      | 2017            |                    | 1594000           | -             | -                  | -                      |

#### B) Vehicles

| Type of vehicle | Year of purchase | Source (ICAR/RKVY) | Cost (Rs.) | Total kms. run as on December, 2024 | Present status    |
|-----------------|------------------|--------------------|------------|-------------------------------------|-------------------|
| Bolero Jeep     | 2023             | ICAR               | 900000     | 11500                               | Working condition |
| Motorcycle      | 2015             | ICAR               | 120010     | 83000                               | Working condition |
| Tractor         | 2010             | ICAR               | 550000     | 1900 hours                          | Working condition |

#### C) Equipment's& AV aids

| Name of the equipment           | Year of purchase | Cost (Rs.) | Present status    |
|---------------------------------|------------------|------------|-------------------|
| Self Propelled Power Reaper     | 2011             | 102000     | Working condition |
| Thresher                        | 2010             | 102000     | Working condition |
| Rotary Tiller (Chain Drive)     | 2011             | 69120      | Working condition |
| Renewable Energy Devices        | 2016             | 840000     | Working condition |
| Paddy cum Multicrop Thresher    | 2016             | 185000     | Working condition |
| Dryer Machine                   | 2017             | 93633      | Working condition |
| Egg Hatcher Machine & Incubator | 2018             | 432259     | Working condition |
| Pulverizer Machine              | 2017             | 28258      | Working condition |
| Milking Machine                 | 2017             | 95000      | Working condition |
| Vertical Autoclave with Timer   | 2018             | 108560     | Working condition |
| Mud Pump                        | 2018             | 30044      | Working condition |
| Refrigerator                    | 2018             | 14690      | Working condition |
| Duplex Printer cum photocopier  | 2019             | 51271      | Working condition |
| Scanner                         | 2019             | 8350       | Working condition |
| Grain Cleaner Machine           | 2019             | 52500      | Working condition |
| Desktop set                     | 2019             | 88850      | Working condition |
| Printer cum Scanner             | 2023             | 19100      | Working condition |
| Solar System                    | 2023             | 560000     | Working condition |
| Desktop set                     | 2023             | 100840     | Working condition |
| Desktop Set                     | 2024             | 151100     | Working condition |

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

| Sl.No.                           | Date     |
|----------------------------------|----------|
| 1. Scientific Advisory Committee | 8.5.2025 |

Suggestions of SAC meeting

## 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                            | FS-1- Vegetables- Agriculture- AH<br>FS-2: Agriculture- Animal Husbandry        | Red laterite sandy/ sandy loam soil |
| 2     | AES 2                            | FS-1:Agriculture- Hort- Animal Husbandry<br>FS-2: Agriculture- Animal Husbandry | Red laterite sandy/ sandy loam soil |
| 3     | AES 3                            | FS-1: Agriculture-Hort-Animal Husbandry<br>FS-2: Agriculture- Animal Husbandry  | Red laterite sandy/ sandy loam soil |

#### b) Land Characteristics

| S.No | Agro-Ecological (AES) | Situation | Topography                         | Drainage           |
|------|-----------------------|-----------|------------------------------------|--------------------|
| 1.   | AES-1                 |           | Undulating uplands ( <i>Tand</i> ) | Well drained       |
| 2.   | AES-2                 |           | Gently sloping ( <i>Don</i> )      | Moderately drained |
| 3.   | AES-3                 |           | Flat, low-lying ( <i>Garha</i> )   | Poorly drained     |

#### c) AES-wise major problems

| S.No. | Agro-Ecological Situation (AES) | Major problems                               | Rank |
|-------|---------------------------------|----------------------------------------------|------|
| 1.    | AES-1 (Name)                    | Soil erosion due to high runoff and slope    | 1    |
|       |                                 | Low soil fertility (acidic soil)             | 2    |
|       |                                 | Lack of irrigation                           | 3    |
|       |                                 | Drought risk and mono-cropping dependency    | 4    |
| 2.    | AES-2 (Name)                    | Limited irrigation facilities                | 1    |
|       |                                 | Nutrient deficiency (NPK and micronutrients) | 2    |
|       |                                 | Inadequate drainage in parts                 | 3    |
|       |                                 | Low productivity of paddy                    | 4    |
| 3.    | AES-3 (Name)                    | Poor drainage and frequent waterlogging      | 1    |
|       |                                 | Soil hard pan formation                      | 2    |
|       |                                 | Pest and disease incidence in paddy          | 3    |
|       |                                 | Post-harvest losses of vegetables            | 4    |

### 2.2. Area, Production and Productivity of major crops cultivated in the district (2024)

| 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 |
|--------|--------------------|-----------|------------------|-----------------------|----------------------------------------------------|--------------------------------------------------|
|        | <b>Field crops</b> |           |                  |                       |                                                    |                                                  |
|        | <b>Kharif</b>      |           |                  |                       |                                                    |                                                  |
| 1      | Rice               | 145759    | 473716.75        | 32.50                 | 20.1                                               | 17.50                                            |
| 2      | Pigeon pea         | 13049     | 11744.10         | 9.00                  | -                                                  | 9.00                                             |
| 3      | Maize              | 10303     | 28848.40         | 28.00                 | -                                                  | 7.00                                             |

|   |               |       |          |      |       |       |
|---|---------------|-------|----------|------|-------|-------|
| 4 | Black gram    | 10225 | 8180.00  | 8.00 | -     | 7.00  |
| 5 | Finger millet | 4454  | 3630.01  | 8.15 | 10.17 | 19.36 |
| 6 | Green gram    | 2871  | 2296.8   | 8.00 | -     | 4.00  |
| 7 | Groundnut     | 1754  | 1666.30  | 9.50 | 13.00 | 25.50 |
| 8 | Sesame        | 270   | 121.5    | 4.50 | 2.07  | 2.50  |
|   | <b>Rabi</b>   |       |          |      |       |       |
| 1 | Mustard       | 19527 | 18550.65 | 9.50 | 3.55  | 6.50  |
| 2 | Wheat         | 10258 | 20516    | 20   | -     | 22.00 |
| 3 | Gram          | 9180  | 9180     | 10   | -     | 6.00  |
| 4 | Lentil        | 1465  | 1025.50  | 7.00 | -     | 7.00  |
|   | <b>Summer</b> |       |          |      |       |       |
| 1 | Green Gram    | 294   | 235.00   | 8.00 | -     | 4.00  |
| 2 | Paddy         | 226   | 565      | 25   | -     | 20.0  |

Source: District agriculture department

### 2.3. Weather data (2023-24)

| Year         | Month         | Rainfall (mm) | Temperature °C |         | Relative Humidity (%) |         |
|--------------|---------------|---------------|----------------|---------|-----------------------|---------|
|              |               |               | Maximum        | Minimum | Maximum               | Minimum |
| 2023         | Apr           | 19.2          | 34.9           | 19.2    | 86.4                  | 69.6    |
| 2023         | May           | 16.4          | 37.5           | 25.7    | 85.8                  | 70.1    |
| 2023         | Jun           | 91.6          | 37.9           | 27.1    | 86.9                  | 70.3    |
| 2023         | Jul           | 276.8         | 32.9           | 23.2    | 86.6                  | 70.3    |
| 2023         | Aug           | 193.8         | 31.5           | 22.5    | 87.0                  | 70.6    |
| 2023         | Sep           | 497.8         | 31.3           | 22.0    | 86.6                  | 70.1    |
| 2023         | Oct           | 223.7         | 29.1           | 18.9    | 86.6                  | 69.9    |
| 2023         | Nov           | 2.0           | 26.0           | 14.5    | 86.7                  | 69.8    |
| 2023         | Dec           | 38.8          | 23.5           | 7.9     | 85.1                  | 70.2    |
| 2024         | Jan           | 3.0           | 23.0           | 5.0     | 86.0                  | 69.7    |
| 2024         | Feb           | 49.2          | 26.1           | 11.2    | 85.6                  | 69.8    |
| 2024         | Mar           | 117.4         | 27.2           | 14.5    | 86.5                  | 69.5    |
| <b>Total</b> | <b>1529.7</b> | -             | -              | -       | -                     | -       |

### 2.4 Production and productivity of livestock, Poultry, Fisheries etc. in the district (2024)

| Category   | Population |
|------------|------------|
| Buffalo    | 125153     |
| Cattle     | 636402     |
| Crossbred  | 127281     |
| Indigenous | 509121     |
| Goat       | 784961     |
| Sheep      | 39719      |
| Pigs       | 68396      |
| Poultry    | 2376524    |

\*Statistical report

### 2.5 Details of Operational area / Villages

| Taluka | Block | Village   | Major Crops & Enterprises                        | Existing Yield (q/ha, number/year) | Major Problem Identified           | Identified Thrust Areas                               |
|--------|-------|-----------|--------------------------------------------------|------------------------------------|------------------------------------|-------------------------------------------------------|
| Ranchi | Burmu | Gutru     | Paddy<br>Maize<br>Pigeon pea<br>Backyard Poultry | 30<br>25<br>7.5<br>35/year         | Low productivity, erratic rainfall | Improved seed, moisture conservation, pest management |
| Ranchi | Burmu | Chaingara | Paddy<br>Mustard                                 | 25<br>8                            | Lack of quality inputs, livestock  | INM, ICM, livestock vaccination                       |

|        |        |             |                                                          |                               |                                                 |                                                          |
|--------|--------|-------------|----------------------------------------------------------|-------------------------------|-------------------------------------------------|----------------------------------------------------------|
|        |        |             | Goat Rearing                                             | 2/year                        | disease                                         |                                                          |
| Ranchi | Burmu  | Mahadevtoli | Paddy<br>Tomato<br>Brinjal                               | 28<br>275<br>254              | Unscientific practices, low market linkage      | Vegetable training, IPM, FPC formation                   |
| Ranchi | Burmu  | Soba        | Paddy<br>Maize<br>Goat Rearing                           | 28<br>22<br>3/year            | Poor animal health, soil erosion                | Stall feeding, fodder devt, soil conservation            |
| Ranchi | Burmu  | Lawagarha   | Paddy<br>Niger<br>Backyard Poultry                       | 26<br>4.5<br>30/year          | Traditional variety, poor soil fertility        | Improved variety, INM, poultry housing                   |
| Ranchi | Burmu  | Murgi       | Paddy<br>Pigeonpea<br>Mustard                            | 26<br>7<br>7.5                | Weed infestation, low nutrient efficiency       | Weed management, micronutrient application               |
| Ranchi | Burmu  | Usku        | Paddy<br>Tomato<br>Goat Rearing                          | 25<br>265<br>3/year           | Irregular rainfall, goat mortality              | Drip irrigation, animal health camps                     |
| Ranchi | Burmu  | Baraudi     | Paddy<br>Brinjal<br>Backyard Poultry                     | 27<br>270<br>30/year          | Pest attack, lack of awareness                  | Farmer training, bio-pesticides, poultry vaccination     |
| Ranchi | Mandar | TangarBasli | Paddy<br>Tomato                                          | 30<br>245                     | Soil erosion, pest in tomato                    | Soil conservation, IPM                                   |
| Ranchi | Mandar | Pungi       | Paddy<br>Wheat<br>Backyard Poultry                       | 24<br>18<br>36/year           | Low productivity, weak poultry health           | Varietal demo, poultry vaccination                       |
| Ranchi | Lapung | Balandu     | Paddy<br>Musatard<br>Onion<br>Black gram<br>Goat Rearing | 28<br>9<br>217<br>7<br>2/year | Waterlogging, disease in goats                  | Drainage, goat health management                         |
| Ranchi | Lapung | Katingdari  | Paddy<br>Ragi<br>Backyard Poultry                        | 22<br>8<br>45/year            | Soil fertility, traditional poultry breeds      | Soil testing, improved breeds                            |
| Ranchi | Angara | Kuturlowa   | Paddy<br>Tomato<br>Goat Rearing                          | 28<br>256<br>10/year          | Disease infestation                             | IPM, vet care                                            |
| Ranchi | Angara | Sursu       | Paddy<br>Mustard<br>Backyard Poultry                     | 28.5<br>6<br>47/year          | Unscientific management                         | Training, improved seed                                  |
| Ranchi | Angara | Hundaru     | Paddy<br>Maize<br>Goat Rearing                           | 28<br>22<br>9/year            | Lack of irrigation                              | Water harvesting, demo                                   |
| Ranchi | Angara | Jaratoli    | Paddy<br>Brinjal<br>Backyard Poultry                     | 26<br>245<br>48/year          | Pest & disease                                  | Pest control, poultry care                               |
| Ranchi | Angara | Soso        | Paddy<br>French Bean<br>Goat Rearing                     | 25<br>10<br>11/year           | Nutrient imbalance                              | Soil testing, IPM                                        |
| Ranchi | Angara | Dublabea    | Paddy<br>Cauliflower<br>Backyard Poultry                 | 27.5<br>52/year               | Pest, low egg production                        | Poultry care, resistant variety                          |
| Ranchi | Angara | Kanshidih   | Paddy<br>Tomato<br>Goat Rearing                          | 24<br>265<br>2/year           | Marketing issues                                | Aggregation, FPO                                         |
| Ranchi | Kanke  | Rarha       | Paddy<br>Mustard<br>Backyard Poultry                     | 23<br>9<br>30/year            | Input cost, pest                                | INM, low-cost IPM                                        |
| Ranchi | Nagri  | Palandu     | Paddy<br>Cauliflower<br>Backyard Poultry                 | 24<br>130<br>36/year          | Low productivity due to pest, poor poultry shed | IPM in vegetables, poultry housing, varietal replacement |
| Ranchi | Nagri  | Kudlung     | Paddy<br>French Bean<br>Goat Rearing                     | 28.5<br>9<br>9/year           | Poor soil health, lack of veterinary care       | Soil health cards, balanced fertilization, deworming     |
| Ranchi | Chanho | Sukurhuttu  | Paddy                                                    | 26.5                          | Low productivity,                               | IPM, improved seed,                                      |



|        |        |              |                                          |                        |                                                     |                                                   |
|--------|--------|--------------|------------------------------------------|------------------------|-----------------------------------------------------|---------------------------------------------------|
|        |        |              | Wheat<br>Backyard Poultry                | 22<br>38/year          | pest incidence                                      | poultry vaccination                               |
| Ranchi | Chanho | Lundari      | Paddy<br>Maize<br>Goat Rearing           | 25<br>22<br>2/year     | Fodder scarcity, poor<br>animal health              | Fodder development,<br>livestock health camp      |
| Ranchi | Chanho | Harra        | Paddy<br>Black gram<br>Backyard Poultry  | 21.5<br>6.5<br>35/year | Waterlogging,<br>unbalanced<br>fertilization        | Drainage, INM                                     |
| Ranchi | Chanho | Nanhu        | Paddy<br>Tomato<br>Goat Rearing          | 23<br>260<br>2/year    | Pest & disease<br>infestation, lack of<br>awareness | Training, IPM, goat<br>vaccination                |
| Ranchi | Chanho | Madhukama    | Paddy<br>Mustard<br>Backyard Poultry     | 22.5<br>7.9<br>39/year | Soil degradation, low<br>poultry egg<br>production  | Organic input use, breed<br>improvement           |
| Ranchi | Chanho | Ranichauraya | Paddy<br>Maize<br>Goat Rearing           | 24.5<br>24<br>3/year   | Erratic rainfall,<br>limited veterinary<br>services | Water harvesting, mobile<br>vet unit              |
| Ranchi | Chanho | Taranga      | Paddy<br>French Bean<br>Backyard Poultry | 25<br>9<br>32/year     | Lack of market<br>linkage, pest attack              | Market-led extension,<br>pest monitoring          |
| Ranchi | Chanho | Ralo         | Paddy<br>Cauliflower<br>Goat Rearing     | 22<br>220<br>3/year    | Unavailability of<br>quality seed                   | Improved seed supply<br>chain, breed selection    |
| Ranchi | Chanho | Badhya       | Paddy<br>Ragi<br>Backyard Poultry        | 24<br>9<br>33/year     | Low soil fertility,<br>limited poultry feed         | Compost use, poultry feed<br>formulation          |
| Ranchi | Chanho | Choliyo      | Paddy<br>Tomato<br>Goat Rearing          | 25.5<br>250<br>2/year  | Pest, lack of<br>marketing                          | IPM, aggregation through<br>FPC                   |
| Ranchi | Chanho | Mathatoli    | Paddy<br>Brinjal<br>Backyard Poultry     | 27<br>240<br>32/year   | Low productivity,<br>poor disease control           | Resistant varieties,<br>vaccination               |
| Ranchi | Chanho | Gutuwa       | Paddy<br>Mustard<br>Goat Rearing         | 24.5<br>8<br>3/year    | Traditional variety,<br>low adoption of tech        | Crop demonstration,<br>deworming                  |
| Ranchi | Chanho | Choreya      | Paddy<br>Maize<br>Backyard Poultry       | 25<br>21<br>32/year    | Low nutrient use<br>efficiency                      | Balanced nutrient<br>application                  |
| Ranchi | Chanho | Lepsar       | Paddy<br>Niger<br>Goat Rearing           | 22<br>4<br>2/year      | Small holdings,<br>fodder scarcity                  | Group approach, fodder<br>plot development        |
| Ranchi | Chanho | Ranichancho  | Paddy<br>Tomato<br>Backyard Poultry      | 23.5<br>255<br>36/year | Low productivity,<br>pest infestation               | IPM, varietal<br>improvement                      |
| Ranchi | Chanho | Hara         | Paddy<br>Vegetable Pea<br>Goat Rearing   | 25<br>18<br>3/year     | Poor disease<br>management                          | Training on livestock<br>health & crop protection |
| Ranchi | Chanho | Chaliyo      | Paddy<br>Brinjal<br>Backyard Poultry     | 24.6<br>245<br>35/year | High pest incidence<br>in vegetables                | Pheromone trap, neem-<br>based pesticides         |
| Ranchi | Chanho | Karkat       | Paddy<br>Chilli<br>Goat Rearing          | 23<br>190<br>2/year    | Low irrigation<br>facility                          | Drip irrigation, farm pond                        |

## 2.6 Top five major priority thrust areas:

- i. Dissemination of low cost sustainable, climate resilient, attractive and remunerative agricultural technology
- ii. Formation of producers groups for different produces like organic vegetables, lac, honey, animal etc. small and large for management of the products and facilitate the process of marketing of products. The small group will function as core implementing agency in association with KVK.
- iii. Conducting long and short duration, residential vocational training for self-employment to the rural youth.

- iv. Production of quality seed by progressive farmers of our adopted village
- v. Formation of self-help groups & village level organization for integrated development

### 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 |
| 12             | 132               |           | 9                 | 855               |

| Training          |                        | Extension Activities |                        |
|-------------------|------------------------|----------------------|------------------------|
| (3)               |                        | (4)                  |                        |
| Number of Courses | Number of Participants | Number of activities | Number of participants |
| 120               | 3322                   | 70                   | 8590                   |

| Seed Production (Qtl.) | Planting material (Nos.) | Fish seed prod. (Nos.) | Soil Samples |
|------------------------|--------------------------|------------------------|--------------|
| (5)                    | (6)                      | (7)                    | (8)          |
| 510                    | 80000                    | -                      | 1000         |

#### 3 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     | Sustainable orchard management          | Mango           | Moisture stress                       | Assessment of biomass mulching in mango                                                       | -                   | Commercial cultivation of papaya                                 | -                                                | SVFF                 | Tephrosia seed and mulching material     |
| 2     | Sustainable orchard management          | Litchi          | Moisture stress                       | Assessment of mulching with micronutrient application to address fruit cracking in litchi     | -                   |                                                                  | -                                                | SVFF                 | Mulching material                        |
| 3     | Varietal assessment and diversification | Onion           | Low marketable yield in Kharif season | Evaluation of onion varieties for kharif season                                               | -                   | 1. Scientific onion cultivation<br>2. Seed priming in onion seed | -                                                | SVFF                 | Onion seed                               |
| 4     | Climate resilient crop production       | Rice            | Yield loss due to water stress        | Assessment of climate resilient varieties in rice suitable for medium land of Ranchi district | -                   | Organic method of rice cultivation                               | -                                                | SVFF                 | Rice seed                                |

|   |                                        |            |                                                             |                                                                                            |   |                                                                                                                 |                                       |      |                           |
|---|----------------------------------------|------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|------|---------------------------|
| 5 | Small ruminant nutrition management    | Goatery    | Lower birth weight of kids                                  | Assessment of Concentration feeding in pregnant does (Steaming Up)                         | - | Lac/Goat Based IFS                                                                                              | Disease management in Goat            | SVFF | Vaccination               |
| 6 | Integrated livestock health management | Goatery    | Transmission of diseases, poor growth rate, irritation etc. | Assessment of different formulations to control external parasites in Goats                | - | 1. Role of PPR vaccine in goats<br>2. Prevention and treatment of ecto-parasite                                 | Package and Practices of Berseem Crop | SVFF | Vaccination               |
| 7 | Soil health management                 | Rice       | Low yield of Rice                                           | Assessment of efficacy of nano urea to supplement recommended dose of nitrogen in rice.    | - | Processing and Storage of Paddy.<br>2. Nursery management for kharif SRI paddy                                  | -                                     | SVFF | Nano urea                 |
| 8 | Soil Health Management                 | Mustard    | Low yield of Mustard                                        | Assessment of different microbial formulations to improve nutrient availability in Mustard | - | Oilseeds production technology for rabi crop (Mustard & Lin seed )                                              | -                                     | SVFF | NPK consortial, nano urea |
| 9 | Integrated pest management             | Pigeon Pea | Yield loss in pigeon pea                                    | Assessment of different insecticidal molecules to control Pod borer complex in pigeon pea. | - | 1. Package & practices of pigeon pea<br>2. Integrated disease and pest management of the major rainy vegetables | -                                     | SVFF | Insecticide               |

|    |                                 |            |                                                                                                                |                                                                                                                       |                                                                                       |                                                                                                                                                                                                                                                            |                     |           |                                |
|----|---------------------------------|------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------|--------------------------------|
| 10 | IPM                             | Rice       | Yield loss due to severe incidence of insect                                                                   | Assessment of different insecticidal molecules to control brown plant hopper ( <i>Nilaparvata alugensis</i> ) in rice | -                                                                                     | 1. Management of insect pest and disease in Rice & Maize<br>2. Techniques of bio pesticides production and their uses<br>3. Management of insect pest & disease in rabi vegetables<br>4. Management of insect pest in rabi pulses crop (pea, gram, lentil) | IPM in Brinjal crop | SVFF      | Insecticide                    |
| 11 | Value addition                  | Moringa    | Low utilization of moringa leaf due to lack of processing tech. Fatigue in work efficacy due to low hemoglobin | Assessment of moringa based paushtik roti to address anemia among farm women                                          | -                                                                                     | Processing of Chenopodium Album                                                                                                                                                                                                                            | -                   | SVFF      | -                              |
| 12 | Value addition                  | Human Diet | Low nutrition level                                                                                            | Assessment of Complimentary food mix to reduce malnutrition among children                                            | -                                                                                     | Balanced Diet                                                                                                                                                                                                                                              | -                   | SVFF      | -                              |
| 13 | Off-season vegetable production | Cucurbits  | Low economic return of direct sown crop (in February) of summer season                                         | -                                                                                                                     | Demonstration of off-season nursery raising of cucurbits in low poly tunnel structure | Vegetable Nursery Production for Rabi Crops                                                                                                                                                                                                                | -                   | Field day | Low poly tunnel structure unit |

|    |                                           |               |                                                              |   |                                                                                                         |                                                                                    |   |           |                    |
|----|-------------------------------------------|---------------|--------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|-----------|--------------------|
| 14 | Nutritional Security                      | Finger millet | Low Productivity of finger millet                            | - | Demonstration of finger millets production for nutritional security of tribal farmers in Rain fed Areas | 1. Processing of finger millet<br>2. Rice, Maize, and Millet production Technology | - | Field day | Finger millet seed |
| 15 | Climate-resilient crop production         | Rice          | Yield loss of subsequent crops                               | - | Demonstration of drought resistant variety of Paddy CR Dhan 320                                         | 1. Dapog method of nursery raising in paddy<br>2. Nutrient management in paddy     | - | Field day | Rice seed          |
| 16 | Conservation of indigenous crop varieties | Rice          | Gradual genetic erosion of indigenous scented rice varieties | - | Demonstration of indigenous paddy variety Bhutku                                                        | 1. Paddy and pulse seed production<br>2. Organic method of paddy cultivation       | - | Field day | Rice seed          |
| 17 | Nutrition Management of small ruminants   | Goatery       | Mineral deficiency                                           | - | Demonstration of minerals block in goat to mitigate minerals deficiency                                 | Balanced animal feed                                                               | - | Field day | Mineral Mixture    |
| 18 | Crop improvement                          | Groundnut     | Low yield potential of the prevalent varieties               | - | Demonstration of high yielding variety of Groundnut GNK 181                                             | Kharif Oilseeds Nizer&sesamum production technology                                | - | Field day | Groundnut seed     |
| 19 | Crop improvement                          | Pigeon pea    | <b>Low Productivity</b>                                      | - | Demonstration of high yield pigeon pea variety Rajeev Lochan                                            | Package & practices of pigeon pea                                                  | - | Field day | Pigeon pea seed    |

|    |                         |                 |                                                                                                         |   |                                                                                                   |                                        |   |           |                                      |
|----|-------------------------|-----------------|---------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------|----------------------------------------|---|-----------|--------------------------------------|
| 20 | Nutritional Security    | Nutri-garden    | Poor health status and micronutrient related deficiency due to poor consumption of fruits and vegetable | - | Nutri-Gardens: A Way to Ensure Round the year vegetable Food Security                             | Kitchen Gardening                      | - | Field day | Nutri garden seed kit                |
| 21 | Mushroom production     | Oyster mushroom | Disease and pest issue                                                                                  | - | Demonstration of oyster mushroom ( <i>Pleurotus florida</i> ) production for nutritional security | Mushroom cultivation                   | - | Field day | Oyster mushroom spawn                |
| 22 | Farm mechanization      | Cycle hoe       | Yield reduction                                                                                         | - | Demonstration of weed management through cycle hoe in cole crops                                  | Maintenance of agricultural implements | - | Field day | cycle hoe                            |
| 23 | Promotion of Apiculture | Bee Keeping     | High incidence of pest and diseases                                                                     | - | Demonstration of Italian bee-keeping practice                                                     | Scientific Beekeeping                  | - | Field day | Bee colony                           |
| 24 | Quality Lac production  | Lac production  | Low productivity of lac                                                                                 | - | Demonstration of quality Kusumi Lac production in Ber plant                                       | Scientific lac cultivation             | - | Field day | Brood lac, insecticide and fungicide |

### 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              | 1       | -        | -      | -                | 1          | -      | -      | -                | -           | 2     |
| Seed / Plant production          | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Weed Management                  | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Integrated Crop Management       | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Integrated Nutrient Management   | 1       | 1        | -      | -                | -          | -      | -      | -                | -           | 2     |
| Integrated Farming System        | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Mushroom cultivation             | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Drudgery reduction               | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Farm machineries                 | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Value addition                   | 1       | -        | -      | -                | 1          | -      | -      | -                | -           | 2     |
| Integrated Pest Management       | 1       | -        | 1      | -                | -          | -      | -      | -                | -           | 2     |
| Integrated Disease Management    | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |
| Resource conservation technology | -       | -        | -      | -                | -          | 2      | -      | -                | -           | 2     |
| Small Scale income generating    | -       | -        | -      | -                | -          | -      | -      | -                | -           | -     |

|              |          |          |          |          |          |          |          |          |          |           |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| enterprises  |          |          |          |          |          |          |          |          |          |           |
| <b>TOTAL</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>-</b> | <b>1</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>10</b> |

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

| Thematic areas                            | Cattle   | Poultry  | Sheep    | Goat     | Piggery  | Vermi-culture | Fisheries | TOTAL    |
|-------------------------------------------|----------|----------|----------|----------|----------|---------------|-----------|----------|
| Evaluation of Breeds                      | -        | -        | -        | -        | -        | -             | -         | -        |
| Nutrition Management                      | -        | -        | -        | 1        | -        | -             | -         | 1        |
| Disease of Management                     | -        | -        | -        | 1        | -        | -             | -         | 1        |
| Value Addition                            | -        | -        | -        | -        | -        | -             | -         | -        |
| Production and Management                 | -        | -        | -        | -        | -        | -             | -         | -        |
| Feed and Fodder                           | -        | -        | -        | -        | -        | -             | -         | -        |
| Small Scale income generating enterprises | -        | -        | -        | -        | -        | -             | -         | -        |
| <b>TOTAL</b>                              | <b>-</b> | <b>-</b> | <b>-</b> | <b>2</b> | <b>-</b> | <b>-</b>      | <b>-</b>  | <b>2</b> |

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

### OFT 1 (Horticulture)

|                                           |                                                                                                                                                                                                              |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Mango                                                                                                                                                                                                        |
| Season                                    | Kharif                                                                                                                                                                                                       |
| Main problem                              | Water stress during flowering and fruit development affects yield                                                                                                                                            |
| Main cause                                | Soil moisture imbalance                                                                                                                                                                                      |
| Title of OFT                              | <b>Assessment of biomass mulching in mango</b>                                                                                                                                                               |
| Farming situation                         | Red laterite soil, Upland, irrigation type (Rainfed), Season (Kharif), Previous crop (Mango)                                                                                                                 |
| Thematic area                             | Soil moisture conservation                                                                                                                                                                                   |
| Farmer practice                           | <b>FP</b> : No mulching or litter fall of trees                                                                                                                                                              |
| Technology option selected for assessment | <b>TO 1</b> :Tephrosia 7.5 kg fresh biomass/m <sup>2</sup> canopy – (Plant Spread)<br><b>TO 2</b> : Grass/Paddy straw/Any local available mulching 15 cm thick (Plant spread)                                |
| Source of technology                      | ICAR Technology (ICAR NRM RCER Technology 2024 – 057)<br>ICAR RCER FSRCH&PR, Plandu, Namkom, Ranchi                                                                                                          |
| No of trial                               | 8                                                                                                                                                                                                            |
| Detail of critical input                  | <b>Tephrosia Seed</b>                                                                                                                                                                                        |
| Cost of individual critical input         | Tephrosiaseed :Rs. 600 (for 8 beneficiaries x 10 plants)                                                                                                                                                     |
| Total cost of critical input              | Rs. 3000/ha (for 400 plants planted at 5 x 5 m distance)                                                                                                                                                     |
| Performance indicator to be recorded      | <b>(i) Technical indicator</b> - Soil Moisture %, Weed Count at 3-4 intermittent stage at one month interval, NPK status (Pre & Post), Yield (kg/plant), Economics (Rs./ha)<br><b>(ii) Farmer perception</b> |

**Note: Each OFT detail should be given in the format**

### OFT 2 (Horticulture)

|                                           |                                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Litchi                                                                                                                                                                                                          |
| Season                                    | Kharif                                                                                                                                                                                                          |
| Main problem                              | High incidence of fruit cracking ultimately affecting the quality of fruits                                                                                                                                     |
| Main cause                                | Moisture imbalance during fruit development along with boron deficiency                                                                                                                                         |
| Title of OFT                              | <b>Assessment of mulching with micronutrient application to address fruit cracking in litchi</b>                                                                                                                |
| Farming situation                         | Red laterite soil, Upland, irrigation type (Rainfed), Season (Kharif), Previous crop (Litchi)                                                                                                                   |
| Thematic area                             | Fruit Quality Improvement                                                                                                                                                                                       |
| Farmer practice                           | <b>FP</b> : Natural leaf litter fall                                                                                                                                                                            |
| Technology option selected for assessment | <b>TO 1</b> :Plastic mulching 50 micron + 4 g/litre borax spray (15, 30 & 45 Days after fruit set)<br><b>TO 2</b> : Paddy Straw Mulching 15 cm thick + 4 g/litre borax spray (15, 30 & 45 days after fruit set) |

|                                      |                                                                                                                                                                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source of technology                 | ICAR NRC on litchi, Muzaffarpur, Bihar                                                                                                                                                                                         |
| No of trial                          | 8                                                                                                                                                                                                                              |
| Detail of critical input             | Borax, Paddy Straw, Plastic Mulch (50 micron)                                                                                                                                                                                  |
| Cost of individual critical input    | Borax :Rs. 500, Plastic mulch - 350 (8 beneficiaries x 5 plants)                                                                                                                                                               |
| Total cost of critical input         | <b>Rs. 2125 /ha</b> (for 100 plants planted at 10x10 m distance)                                                                                                                                                               |
| Performance indicator to be recorded | (i) Technical indicator - Pre & Post NPK status, Soil Moisture %, Weed Count at 3-4 stages at one month interval, Fruit Cracking (%)<br>(ii) Fruit Weight (g), Yield (kg/plant), Economics (Rs./ha)<br>(iii) Farmer perception |

### OFT 3 (Plant Breeding)

|                                           |                                                                                                                                                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Onion                                                                                                                                                                                 |
| Season                                    | Kharif                                                                                                                                                                                |
| Main problem                              | Low marketable yield in Kharif                                                                                                                                                        |
| Main cause                                | High incidence of diseases                                                                                                                                                            |
| Title of OFT                              | <b>Evaluation of Onion varieties for Kharif season</b>                                                                                                                                |
| Farming situation                         | Red laterite soil, Upland, irrigated and previous crop summer vegetables (Majorly cucurbits)                                                                                          |
| Thematic area                             | Vegetable production                                                                                                                                                                  |
| Farmer practice                           | FP: Nasik Red (N-53)                                                                                                                                                                  |
| Technology option selected for assessment | TO 1: Agrifound Dark Red (AFDR)<br>TO 2 : Bheema Dark Red                                                                                                                             |
| Source of technology                      | <b>TO 1:</b> National Horticultural Research and Development Foundation, Nashik, Maharashtra<br><b>TO 2:</b> ICAR- Directorate of Onion and Garlic Research, Pune, Maharashtra (2014) |
| No of trial                               | 10 (0.6 ha)                                                                                                                                                                           |
| Detail of critical input                  | Seed                                                                                                                                                                                  |
| Cost of individual critical input         | Rs. 12000                                                                                                                                                                             |
| Total cost of critical input              | Rs. 20000 /ha                                                                                                                                                                         |
| Performance indicator to be recorded      | Plant population at 45, 60 DAT and at harvesting, Av. bulb diameter (cm), Av. Bulb weight (g), Av. Yield/ ha, Economics and Farmers' Perception                                       |

### OFT 4 (Plant Breeding)

|                                           |                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Rice                                                                                                                                                                                          |
| Season                                    | Kharif                                                                                                                                                                                        |
| Main problem                              | Yield loss                                                                                                                                                                                    |
| Main cause                                | Yield loss in paddy crop due to water stress, reduction in number of rainy days                                                                                                               |
| Title of OFT                              | Assessment of climate resilient varieties in rice suitable for medium land of Ranchi district.                                                                                                |
| Farming situation                         | Red laterite soil, medium land, rain fed farming and previous crop was mustard                                                                                                                |
| Thematic area                             | Crop production                                                                                                                                                                               |
| Farmer practice                           | FP: Cultivation of drought tolerant variety IR 64 (drt)                                                                                                                                       |
| Technology option selected for assessment | TO 1: Cultivation of drought tolerant variety CR Dhan 320<br>TO 2: Cultivation of climate resilient variety CR Dhan 214                                                                       |
| Source of technology                      | <b>FP :</b> ICAR-Indian Institute of Rice Research, Hyderabad (2014)<br><b>TO 1 &amp; TO 2:</b> ICAR- NRRI- Central Rainfed Upland Rice Research Station, Hazaribagh, Jharkhand (2021 & 2024) |
| No of trial                               | 10 (1.2 ha)                                                                                                                                                                                   |
| Detail of critical input                  | Seed                                                                                                                                                                                          |
| Cost of individual critical input         | Rs. 2400                                                                                                                                                                                      |
| Total cost of critical input              | Rs. 2000 /ha                                                                                                                                                                                  |



|                                      |                                                                                                                                                                                           |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Performance indicator to be recorded | Technical indicator (No. of tillers, Panicle length, grains per panicle, Yield (Q/ha)<br>Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) ,Farmer perception |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### OFT 5 (Animal Husbandry)

|                                           |                                                                                                                                                                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Goat                                                                                                                                                                                                                                                   |
| Season                                    | Rabi                                                                                                                                                                                                                                                   |
| Main problem                              | Lower birth weight of kids                                                                                                                                                                                                                             |
| Main cause                                | Nutrients deficiency                                                                                                                                                                                                                                   |
| Title of OFT                              | Assessment of Concentrate ration feeding in pregnant does (Steaming Up)                                                                                                                                                                                |
| Farming situation                         | Semi intensive farming system                                                                                                                                                                                                                          |
| Thematic area                             | Nutritional management                                                                                                                                                                                                                                 |
| Farmer practice                           | FP: Only Free- range grazing/browsing system                                                                                                                                                                                                           |
| Technology option selected for assessment | <b>TO1-</b> Farmers practice plus supplementation of 150 gm concentrate/day from 60 days before expected day of kidding<br><br><b>TO2-</b> Farmers practice plus supplementation of 250 gm concentrate/day from 60 days before expected day of kidding |
| Source of technology                      | ICAR-IVRI, Izatnagar, Bareilly, UP                                                                                                                                                                                                                     |
| No of trial                               | 18                                                                                                                                                                                                                                                     |
| Detail of critical input                  | Concentrate feed mixture                                                                                                                                                                                                                               |
| Cost of individual critical input         | Rs. 500 and Rs.800 approx. in TO1 and TO2 respectively                                                                                                                                                                                                 |
| Total cost of critical input              | Rs.8000.00 approx.                                                                                                                                                                                                                                     |
| Performance indicator to be recorded      | (i) Birth weight of kids, Growth and production performance of kids, B:C ratio and farmer perception                                                                                                                                                   |

#### OFT 6 (Animal Husbandry)

|                                           |                                                                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Cattle                                                                                                                                                                                         |
| Season                                    | Kharif/Rabi                                                                                                                                                                                    |
| Main problem                              | Transmission of diseases, poor growth rate, irritation etc.                                                                                                                                    |
| Main cause                                | Infestation of lice, ticks and flies                                                                                                                                                           |
| Title of OFT                              | Assessment of different formulations to control external parasites in Goats                                                                                                                    |
| Farming situation                         | Semi intensive farming system                                                                                                                                                                  |
| Thematic area                             | Disease management                                                                                                                                                                             |
| Farmer practice                           | Using different ITKs and medicines advised by local rural practitioner or by medical stores.                                                                                                   |
| Technology option selected for assessment | <b>FP :</b> Use of Karanj oil/ Neem oil<br><br><b>TO1:</b> Amitraj 10ml/ lit of water, 2 alternative days.<br><br><b>TO2:</b> Karanj oil 100ml + sulphur 10g + camphor 5g , 3 alternative days |
| Source of technology                      | BAU, Ranchi                                                                                                                                                                                    |
| No of trial                               | 18                                                                                                                                                                                             |

|                                      |                                                                                                  |
|--------------------------------------|--------------------------------------------------------------------------------------------------|
| Detail of critical input             | Amitraj- 100ml, Karanj oil- 3 lit., Sulpher-250g, Camphor -150g.                                 |
| Cost of individual critical input    | Rs.70-150/ animal                                                                                |
| Total cost of critical input         | Rs. 3500/- approx                                                                                |
| Performance indicator to be recorded | Duration of treatment (days), Time taken for full recovery (days), B:C ratio, Farmers Perception |

#### OFT 7 (Agronomy)

|                                           |                                                                                                                                                                                                                                                                    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Rice                                                                                                                                                                                                                                                               |
| Season                                    | Kharif                                                                                                                                                                                                                                                             |
| Main problem                              | Low yield of Rice                                                                                                                                                                                                                                                  |
| Main cause                                | Low nutrient use efficiency of prevalent source of nitrogen                                                                                                                                                                                                        |
| Title of OFT                              | Assessment of efficacy of nano-urea to supplement recommended dose of nitrogen in rice.                                                                                                                                                                            |
| Farming situation                         | Red laterite soil, medium land, rain fed farming, previous crop (Mustard)                                                                                                                                                                                          |
| Thematic area                             | Nutrient Management in Rice                                                                                                                                                                                                                                        |
| Farmer practice                           | FP – 68:58:15::N:P:K kg/ha                                                                                                                                                                                                                                         |
| Technology option selected for assessment | <b>TO 1:</b> 50% of RDN (80kg/ha) & 100% PK (40:30kg/ha) + Nano urea @ 4ml/ltr water (Single spray at flowering stage)<br><b>TO 2:</b> 50% of RDN (80kg/ha) & 100% PK (40:30kg/ha) + 2 sprays of Nano Urea at (25 to 30 days) and (60 to 65 Days) @ 4ml/ ltr water |
| Source of technology                      | ICAR-IARI Jharkhand, TNAU Tamil Nadu, Assam Agriculture University Jorhat                                                                                                                                                                                          |
| No of trial                               | 10 (Total area for field crops 1.0 ha )                                                                                                                                                                                                                            |
| Detail of critical input                  | Fertilizer (Urea), DAP, MOP and Nano Urea,                                                                                                                                                                                                                         |
| Cost of individual critical input         | Urea: Rs. 508, DAP Rs. 2571, MOP: Rs. 1452, Nano Urea: Rs. 857 = Rs. 5388/ha                                                                                                                                                                                       |
| Total cost of critical input              | Rs. 5388/ha                                                                                                                                                                                                                                                        |
| Performance indicator to be recorded      | (i) Technical indicator (No of tillers, Effective tillers, grains per panicle, Yield (Q/ha)<br>(ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio)<br>(iii) Farmers feedback                                                        |

#### OFT 8 (Agronomy)

|                                           |                                                                                                                                                                                                                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Mustard                                                                                                                                                                                                                                                                        |
| Season                                    | Rabi                                                                                                                                                                                                                                                                           |
| Main problem                              | Low yield of Mustard                                                                                                                                                                                                                                                           |
| Main cause                                | Imbalance use of fertilizers                                                                                                                                                                                                                                                   |
| Title of OFT                              | Assessment of different microbial formulations to improve nutrient availability in Mustard                                                                                                                                                                                     |
| Farming situation                         | Red laterite soil, medium land, rain fed farming and previous crop was paddy                                                                                                                                                                                                   |
| Thematic area                             | Nutrient Management                                                                                                                                                                                                                                                            |
| Farmer practice                           | FP : 60:46:20::N:P:K Kg/ha                                                                                                                                                                                                                                                     |
| Technology option selected for assessment | TO 1: FP + NPK Liquid Consortia @ 500 ml/50 kg FYM/ha and foliar application of consortia @ 5-10ml/ litre water at pre-flowering stage<br>TO 2: FP + seed treatment with Beejamrit + Four time foliar application of Jeevamrit @ 100ml/litre water (200 litre/acre for 1 time) |
| Source of technology                      | TO 1: TNAU, Tamil Nadu, TO 2: RKMVERI Ranchi                                                                                                                                                                                                                                   |
| No of trial                               | 10 (Total area for field crops 1.20 ha)                                                                                                                                                                                                                                        |
| Detail of critical input                  | Seed, Fertilizer, NPK Liquid Consortia, Beejaamrit, Jeevaamrit and Dashparni                                                                                                                                                                                                   |
| Cost of individual critical input         | DAP: Rs. 3085, Urea: Rs. 618, MOP: Rs. 1216, NPK Consortia: Rs. 1572, Beejamrit: Rs. 125, Jeevamrit: Rs. 1000 = Rs. 7616                                                                                                                                                       |
| Total cost of critical input              | Rs. 6346.66/ha.                                                                                                                                                                                                                                                                |

|                                      |                                                                                                                                                                                                                         |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Performance indicator to be recorded | (i) Technical indicator (No. of primary and Secondary Branches, No. of siliqua per plant, Yield (Q/ha)<br>(ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio)<br>(iii) Farmer perception |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### OFT 9 (Plant Protection)

|                                           |                                                                                                                                                                                                                                                                              |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Pigeon pea                                                                                                                                                                                                                                                                   |
| Season                                    | Kharif                                                                                                                                                                                                                                                                       |
| Main problem                              | Yield loss in pigeon pea                                                                                                                                                                                                                                                     |
| Main cause                                | High incidence of pod borer ( <i>Helicoverpaarmigera</i> ) and pod fly ( <i>Melanagromyzaobtusa</i> ) leads to 30-60% yield loss                                                                                                                                             |
| Title of OFT                              | Assessment of different insecticidal molecules to control Pod borer complex in pigeon pea.                                                                                                                                                                                   |
| Farming situation                         | Red laterite soil, Upland, irrigated and previous crop summer vegetables                                                                                                                                                                                                     |
| Thematic area                             | Pest Management                                                                                                                                                                                                                                                              |
| Farmer practice                           | FP: Spray of chlorpyrifos 50 EC.                                                                                                                                                                                                                                             |
| Technology option selected for assessment | TO 1: Application of chlorantraniliprole 18.5 SC @ 150 ml /ha at pod formation stage.<br>TO 2: Two spray 1 <sup>st</sup> spray Indoxacarb 14.5 SC @ 250 ml/hat 50% flowering and 2 <sup>nd</sup> spray Imidacloprid 17.8 SL @ 400 ml/ha 15 days after 1 <sup>st</sup> spray. |
| Source of technology                      | BAU Sabour                                                                                                                                                                                                                                                                   |
| No of trial                               | 10 (0.4 ha)                                                                                                                                                                                                                                                                  |
| Detail of critical input                  | Pesticide                                                                                                                                                                                                                                                                    |
| Cost of individual critical input         | Rs. 1000                                                                                                                                                                                                                                                                     |
| Total cost of critical input              | Rs. 10000 /ha                                                                                                                                                                                                                                                                |
| Performance indicator to be recorded      | A. Technical indicator:Pest Incidence %,Average yield (q/ha)<br>B. Economic indicator: Cost of cultivation (Rs.), Gross return (Rs.), Net return (Rs.), B:C ratio                                                                                                            |

#### OFT 10 (Plant Protection)

|                                           |                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Rice                                                                                                                                                                                                                                                                                                                       |
| Season                                    | Kharif                                                                                                                                                                                                                                                                                                                     |
| Main problem                              | Yield loss due to sever incidence of insect                                                                                                                                                                                                                                                                                |
| Main cause                                | High incidence of brown plant hopper ( <i>Nilaparvatalugens</i> )                                                                                                                                                                                                                                                          |
| Title of OFT                              | Assessment of different insecticidal molecules to control brown plant hopper ( <i>Nilaparvatalugen</i> ) in rice                                                                                                                                                                                                           |
| Farming situation                         | Red laterite soil, medium land, rain fed farming and previous crop (mustard)                                                                                                                                                                                                                                               |
| Thematic area                             | Crop production                                                                                                                                                                                                                                                                                                            |
| Farmer practice                           | FP: Imidacloprid 17.8 SL (100 ml/ha)/Thiamethoxam 25 WG (100g/ha)                                                                                                                                                                                                                                                          |
| Technology option selected for assessment | TO 1: 1 <sup>st</sup> Application with Azadirachtin (1500 ppm, 2.5 ml/lit) at 3-5 insect/hill followed by 2 <sup>nd</sup> application with Thiamethoxam 25 WG, (100 g/ha) at an interval of 10 days.<br>TO 2: 1 <sup>st</sup> and 2 <sup>nd</sup> application with Buprofezin 25 EC (800 ml/ha) at an interval of 10 days. |
| Source of technology                      | DPPQS, Faridabad                                                                                                                                                                                                                                                                                                           |
| No of trial                               | 10 (1.0 ha)                                                                                                                                                                                                                                                                                                                |
| Detail of critical input                  | Pesticide                                                                                                                                                                                                                                                                                                                  |
| Cost of individual critical input         | Rs. 1000                                                                                                                                                                                                                                                                                                                   |
| Total cost of critical input              | Rs. 10000 /ha                                                                                                                                                                                                                                                                                                              |
| Performance indicator to be recorded      | A. Technical indicator:Pest Incidence%, No. of insect/hill, Average yield (q/ha)<br>B. Economic indicator: Cost of cultivation (Rs.), Gross return (Rs.), Net return (Rs.), B:C ratio                                                                                                                                      |

**OFT 11 (Home Science)**

|                                           |                                                                                                                                                    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Moringa                                                                                                                                            |
| Season                                    | Summer                                                                                                                                             |
| Main problem                              | Low utilization of moringa leaf due to lack of processing tech.<br>Fatigue in work efficacy due to low hemoglobin                                  |
| Main cause                                | Prevalence of anemia among farm women                                                                                                              |
| Title of OFT                              | <b>Assessment of moringa based paushtik roti to address anemia among farm women</b>                                                                |
| Farming situation                         | Health management                                                                                                                                  |
| Thematic area                             | FP: Irregular intake of moringa leaf                                                                                                               |
| Farmer practice                           | TO1: Paushtik Roti : Moringa powder @ 20g/kg wheat flour<br>TO2: Paushtik Roti : Moringa powder @ 20 g/kg wheat + ragi flour (50 g/kg wheat flour) |
| Technology option selected for assessment | Moringa                                                                                                                                            |
| Source of technology                      | <b>Assam Agricultural University</b>                                                                                                               |
| No of trial                               | 30 (FP: 10, TO1: 10, TO 2: 10)                                                                                                                     |
| Detail of critical input                  | Wheat Flour: Rs. 5000, Ragi Flour : 2500, Moringa Powder, Airtight Container                                                                       |
| Cost of individual critical input         | Wheat Flour (Rs. 5000), Ragi Flour (Rs. 400), Moringa Powder (Rs. 500)                                                                             |
| Total cost of critical input              | Rs. 5900                                                                                                                                           |
| Performance indicator to be recorded      | Organoleptic evaluation of formulated product on a nine-point hedonic scale<br>Analysis of signs and symptoms of anemia                            |

**OFT 12 (Home Science)**

|                                           |                                                                                                                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crop                                      | Cereal, Millet, Pulse, Oilseed, fruits and vegetable                                                                                                                                                                                    |
| Season                                    | All seasons                                                                                                                                                                                                                             |
| Main problem                              | Low nutrition level                                                                                                                                                                                                                     |
| Main cause                                | Imbalanced diet                                                                                                                                                                                                                         |
| Title of OFT                              | Assessment of Complimentary food mix to reduce malnutrition among children                                                                                                                                                              |
| Farming situation                         | Health Management                                                                                                                                                                                                                       |
| Thematic area                             | FP: Rice consumption as staple food                                                                                                                                                                                                     |
| Farmer practice                           | TO 1: Assessment of complimentary food mix with cereal, millet, and pulses (1:0.5:0.5 for cereal, millet, and pulse)<br>TO 2: Assessment of complimentary food mix with cereal, millet, pulses and tubers, fruits (1:0.5:0.5:0.25:0.25) |
| Technology option selected for assessment | Cereal, Millet, Pulse, Oilseed, fruits and vegetable                                                                                                                                                                                    |
| Source of technology                      | <b>Assam Agricultural University</b>                                                                                                                                                                                                    |
| No of trial                               | 30 (FP: 10, TO 1: 10, TO 2: 10)                                                                                                                                                                                                         |
| Detail of critical input                  | Raw material                                                                                                                                                                                                                            |
| Cost of individual critical input         | Wheat flour (Rs. 1000), Millet flour (Rs. 1600), Pulse Flour (Rs. 1200), Tuber Powder (Rs. 1000), Fruit Powder (Rs. 1500) = Rs. 6300                                                                                                    |
| Total cost of critical input              | Rs. 6300                                                                                                                                                                                                                                |
| Performance indicator to be recorded      | Organoleptic evaluation of formulated product on a nine-point hedonic scale<br>Physical and Performance assessment of children through standardised questionnaire                                                                       |

**3.2 Frontline 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 farmers | Parameters identified (Yield related attributes, yield economics) |
|---------|------|---------------|------------------------------|-----------------|-----------------|-----------|----------------|-------------------------------------------------------------------|
|---------|------|---------------|------------------------------|-----------------|-----------------|-----------|----------------|-------------------------------------------------------------------|

|   |               |                                  |                                                                     |                                        |                              |     | /<br>demon. | and farmers' perception                                                                                                           |
|---|---------------|----------------------------------|---------------------------------------------------------------------|----------------------------------------|------------------------------|-----|-------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1 | Cucurbits     | Vegetable nursery management     | Off-season nursery raising of cucurbits in low polytunnel structure | Low Poly tunnel structure with Protray | Rabi 2025-26                 | 2   | 25          | Date of first harvesting & Average Yield (q/ha), Gross Cost (Rs./ha.), Gross income (Rs./ha.), Net income (Rs./ha.), B:C ratio    |
| 2 | Finger millet | Varietal Demonstration           | HYV BM3                                                             | Seed of HYV BM 3                       | Kharif 2025-26               | 100 | 500         | Grain Yield (q/ha), Straw Yield(q/ha), Plant Height (cm), Cost of Cultivation (Rs /ha), Net Return (Rs /ha), B:C Ratio            |
| 3 | Paddy         | Varietal Demonstration           | HYV CR Dhan 320                                                     | Seed of HYV CR Dhan 320                | Kharif 2025-26               | 40  | 100         | No. of tillers/plant, grains per panicle, Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback |
| 4 | Paddy         | Indigenous variety demonstration | Indigenous paddy variety Bhutku                                     | Seed of Bhutku                         | Kharif 2025-26               | 40  | 100         | No. of tillers/plant, grains per panicle, Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback |
| 5 | Groundnut     | Varietal Demonstration           | Introduction of high yielding variety - K1812                       | Seed of K1812                          | Kharif 2025-26               | 13  | 32          | No. of pegs/plant, Av. Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback                    |
| 6 | Pigeon Pea    | Varietal Demonstration           | HYV Rajeev Lochan                                                   | Seed of Rajeev Lochan                  | Kharif 2025-26               | 15  | 37          | Av. Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback                                       |
| 7 | Nutri-Garden  | Nutri Garden                     | Vegetable and fruit crops                                           | Vegetable seed & Fruit plants          | Kharif, Rabi, Jaid (2025-26) | 0.1 | 25          | Av. production per unit, Cost of cultivation per unit, cost of saving per unit, Farmer Feedback                                   |
| 8 | Mushroom      | Oyster                           | Oyster Mushroom                                                     | Mushroom Spawn                         | Rabi 2025-26                 | -   | 25          | Yield/bag (kg), Cost of production (Rs.), Gross return (Rs.), Net Return (Rs.), B:C ratio, Farmers' Feed Back                     |
| 9 | Lac           | Kusumi Lac production            | Quality brood lac inoculation and plant protection measures         | Brood lac, Insecticide and fungicide   | Kharif 2025                  | -   | 25          | Av. Yield (kg/Plant), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback                                   |
|   |               |                                  |                                                                     | <b>Total</b>                           |                              |     |             |                                                                                                                                   |

### Sponsored Demonstration

| Crop    | Area (ha) | No. of farmers |
|---------|-----------|----------------|
| Mustard | 40        | 100            |

### B. Extension and Training activities under FLDs

| S. No.   | Activity                            | No. of activities | Month                        | Number of participants |
|----------|-------------------------------------|-------------------|------------------------------|------------------------|
| <b>1</b> | <b>Farmers Training</b>             |                   |                              |                        |
|          | i.FLD – Oyster Mushroom             | 2                 | Nov.- Dec.                   | 30                     |
|          | ii.FLD – Lac Production             | 3                 | July, Agust, September       | 75                     |
|          | iii.FLD – Low Poly Tunnel Structure | 2                 | November                     | 25                     |
|          | iv.FLD - Nutri-Garden               | 2                 | June-July                    | 25                     |
|          | v.FLD – Finger Millet               | 4                 | June, July, Agust, September | 500                    |

|   |                                      |           |             |     |
|---|--------------------------------------|-----------|-------------|-----|
|   | vi.FLD – Ground Nut                  | 2         | June        | 32  |
|   | vii.FLD – Pigeon Pea                 | 2         | July        | 37  |
|   | viii.FLD - CR Dhan 320               | 3         | July        | 100 |
|   | ix.FLD – Bhutku                      | 2         | July        | 100 |
|   | x.FLD - Cycle Hoe                    | 2         | Nov.        | 25  |
|   | xi.FLD – Mineral Mixture Block       | 2         | Nov. - Dec. | 50  |
| 2 | Field days                           |           |             |     |
|   | i. FLD – Lac Production              | 1         | October     | 80  |
|   | ii. FLD – Low Poly Tunnel Structure  | 1         | October     | 50  |
|   | iii. FLD – Finger Millet             | 2         | December    | 500 |
|   | iv. FLD – Ground Nut                 | 1         | September   | 50  |
|   | v. FLD – Pigeon Pea                  | 1         | November    | 50  |
|   | vi. FLD - CR Dhan 320                | 1         | November    | 100 |
|   | vii. FLD – Bhutku                    | 1         | November    | 100 |
|   | viii. FLD - Cycle Hoe                | 1         | December    | 50  |
|   | ix. FLD – Mineral Mixture Block      | 1         | December    | 60  |
| 3 | Media coverage                       | June      | 5           | -   |
|   |                                      | July      | 2           | -   |
|   |                                      | August    | 2           | -   |
|   |                                      | September | 1           | -   |
|   |                                      | October   | 2           | -   |
|   |                                      | November  | 4           | -   |
|   |                                      | December  | 3           | -   |
| 4 | Training for extension functionaries | -         | -           | -   |

### 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                                                        |
|-----------------------|-------------|-----------------|----------------|-----------|-----------------|--------------------------------------------------------------------------------------------|
| Cycle hoe             | Cauliflower | Rabi 2025-26    | 25             | 2         | Cycle Hoe       | Growth rate, reproductive performance, Economic indicator – FCR, BC ratio, Farmer Feedback |

#### (ii) Livestock Enterprises

| Enterprise | Breed        | No. of farmers | No. of animals, poultry birds/ha. etc. | Critical inputs | Performance parameters / indicators                                   |
|------------|--------------|----------------|----------------------------------------|-----------------|-----------------------------------------------------------------------|
| Goatery    | Black Bengal | 50             | -                                      | Mineral Block   | Growth rate, reproductive performance, FCR, BC ratio, Farmer Feedback |

### Details of all FLD in the given format

#### FLD 1

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Title of FLD                     | Demonstration of off-season nursery raising of cucurbits in low poly tunnel structure |
| Season & Year                    | Rabi of 2025-26                                                                       |
| Main Problem                     | Low economic return of direct sown crop (in February) of summer season                |
| Main cause of problem            | Glut in market due to traditional time of seed sowing (February-March)                |
| Full detail of farmer's Practice | Seed Sowing in Last week of January to first week of February                         |
| Name of the Technology           | Off-season nursery raising of cucurbits in low polytunnel structure                   |

|                                              |                                                                                                                                                                                                                                                                                 |                       |    |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----|
| Full detail of technology to be demonstrated | <b>i.</b> Seed Treatment with Trichoderma (6g/kg seed)<br><b>ii.</b> Seedling raising of cucumber in polytubes (6x4 inch) under low polytunnel structure in second fortnight of December<br><b>iii.</b> Transplanting of seedlings in second fortnight of January in open field |                       |    |
| Thematic area                                | Vegetable Nursery Management                                                                                                                                                                                                                                                    |                       |    |
| Source of Technology with year               | BAU, Ranchi                                                                                                                                                                                                                                                                     |                       |    |
| Name of villages                             | Baraudi (Burmua) & Gurgurjari (Mandar)                                                                                                                                                                                                                                          |                       |    |
| Farming situation                            | Red laterite soil, upland, irrigated condition and previous crop - Cole Crops                                                                                                                                                                                                   |                       |    |
| Area (ha)/Unit (No.)                         | 25 units                                                                                                                                                                                                                                                                        | <b>No. of farmers</b> | 25 |
| Performance indicator                        | (I) <b>Technical indicator</b> : Date of first harvesting & Average Yield (q/ha)<br>(II) <b>Economic indicator</b> : Gross Cost (Rs./ha.), Gross income (Rs./ha), Net income (Rs./ha.), B:C ratio<br>(III) <b>Farmer Feedback</b>                                               |                       |    |

## FLD 2

|                                              |                                                                                                                                                                                                                         |                       |     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|
| Title of FLD                                 | Demonstration of finger millets production for nutritional security of tribal farmers in Rain fed Areas                                                                                                                 |                       |     |
| Season & Year                                | Kharif 2025-26                                                                                                                                                                                                          |                       |     |
| Main Problem                                 | Low Productivity of finger millet                                                                                                                                                                                       |                       |     |
| Main cause of problem                        | Low productivity level of prevalent variety                                                                                                                                                                             |                       |     |
| Full detail of farmer's Practice             | Variety A 404, Seed 10-12 kg/ha, Broadcasting method of sowing, No seed treatment, Random Spacing, imbalanced nutrient application (20:18 N:P kg/ha)                                                                    |                       |     |
| Name of the Technology                       | Varietal demonstration of finger millet variety BirsaMandua 3                                                                                                                                                           |                       |     |
| Full detail of technology to be demonstrated | HYV BM 3, Seed Rate 6-8 kg/ha, Line sowing with spacing : 30x10 cm, RDF: 40:30:20 kg/ha), Nursery Sowing from 15 June to 30 June                                                                                        |                       |     |
| Thematic area                                | Crop Production                                                                                                                                                                                                         |                       |     |
| Source of Technology with year               | Birsa Agricultural University, Ranchi (2021)                                                                                                                                                                            |                       |     |
| Name of villages                             | Chipara, Pataracholi, Kasaro and Sukurhuttu                                                                                                                                                                             |                       |     |
| Farming situation                            | Red laterite soil, upland, rain fed condition                                                                                                                                                                           |                       |     |
| Area (ha)/Unit (No.)                         | 100 ha                                                                                                                                                                                                                  | <b>No. of farmers</b> | 500 |
| Performance indicator                        | (I) <b>Technical indicator</b> : Grain Yield (q/ha), Straw Yield(q/ha), Plant Height (cm)<br>(II) <b>Economic indicator</b> :Cost of Cultivation( Rs /ha),Net Return (Rs /ha), BC Ratio<br>(III) <b>Farmer Feedback</b> |                       |     |

## FLD 3

|                                              |                                                                 |
|----------------------------------------------|-----------------------------------------------------------------|
| Title of FLD                                 | Demonstration of drought resistant variety of Paddy CR Dhan 320 |
| Season & Year                                | Kharif 2025-26                                                  |
| Main Problem                                 | Yield loss of subsequent crops                                  |
| Main cause of problem                        | Late harvesting of rice                                         |
| Full detail of farmer's Practice             | Farmers are using late maturing variety                         |
| Name of the Technology                       | Demonstration of drought resistant variety of paddy             |
| Full detail of technology to be demonstrated | Drought resistant variety of Paddy CR Dhan 320,                 |

|                                |                                                                                                                                   |                       |     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|
| Thematic area                  | Varietal Demonstration                                                                                                            |                       |     |
| Source of Technology with year | ICAR NRRI CRURRS Hazaribagh                                                                                                       |                       |     |
| Name of villages               | Chaingara (Burm block), Piska (Silli Block)                                                                                       |                       |     |
| Farming situation              | Rainfed Farming                                                                                                                   |                       |     |
| Area (ha)/Unit (No.)           | 40                                                                                                                                | <b>No. of Farmers</b> | 100 |
| Performance indicator          | No. of tillers/plant, grains per panicle, Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback |                       |     |

#### FLD 4

|                                                     |                                                                                                                                                                                                 |                       |    |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----|
| <b>Title of FLD</b>                                 | Demonstration of indigenous paddy variety Bhutku                                                                                                                                                |                       |    |
| <b>Season &amp; Year</b>                            | Kharif 2025-26                                                                                                                                                                                  |                       |    |
| <b>Main Problem</b>                                 | Gradual genetic erosion of indigenous scented rice varieties                                                                                                                                    |                       |    |
| <b>Main cause of problem</b>                        | Lack of awareness about traditional varieties, non-availability of quality seeds, and preference for high-yielding hybrids                                                                      |                       |    |
| <b>Full detail of farmer's Practice</b>             | Due to lack of awareness about the value of traditional varieties farmers are not very much willing to conserve such traditional varieties and grow mostly prevalent hybrid varieties of paddy. |                       |    |
| <b>Name of the Technology</b>                       | Indigenous scented rice variety Bhutku                                                                                                                                                          |                       |    |
| <b>Full detail of technology to be demonstrated</b> | Variety - Bhutku, Crop duration - 145 Days, Characteristic - Unique aroma (highly scented), texture and taste                                                                                   |                       |    |
| <b>Thematic area</b>                                | Promotion & conservation of indigenous crop varieties                                                                                                                                           |                       |    |
| <b>Source of Technology with year</b>               | Variety registered under PPVFRA. The registration no. is                                                                                                                                        |                       |    |
| <b>Name of villages</b>                             | Mahadevtoli, Burmu and TangarBasliMandar                                                                                                                                                        |                       |    |
| <b>Farming situation</b>                            | Rainfed Farming                                                                                                                                                                                 |                       |    |
| <b>Area (ha)/Unit (No.)</b>                         | 12.50 ha                                                                                                                                                                                        | <b>No. of farmers</b> | 31 |
| <b>Performance indicator</b>                        | No. of tillers/plant, grains per panicle, Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback                                                               |                       |    |

#### FLD 5

|                                                     |                                                                                            |                       |    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------|----|
| <b>Title of FLD</b>                                 | <b>Demonstration of minerals block in goat to mitigate minerals deficiency</b>             |                       |    |
| <b>Season &amp; Year</b>                            | Rabi, 2025                                                                                 |                       |    |
| <b>Main Problem</b>                                 | Poor growth rate and reproductive performance                                              |                       |    |
| <b>Main cause of problem</b>                        | Mineral deficiency                                                                         |                       |    |
| <b>Full detail of farmer's Practice</b>             | Free range grazing without any external supplementation of minerals                        |                       |    |
| <b>Name of the Technology</b>                       | Mineral Block for goats                                                                    |                       |    |
| <b>Full detail of technology to be demonstrated</b> | Tying of mineral block (2kg/pc.) for 10 goats for a duration of one to two weeks           |                       |    |
| <b>Thematic area</b>                                | Varietal demonstration                                                                     |                       |    |
| <b>Source of Technology with year</b>               | IVRI, Izzatnagar, Bareilly, UP                                                             |                       |    |
| <b>Name of villages/Block</b>                       | Villages of Angara and Rahe Block                                                          |                       |    |
| <b>Farming situation</b>                            | Semi Intensive Goat Farming                                                                |                       |    |
| <b>Area (ha)/Unit (No.)</b>                         | 50 units                                                                                   | <b>No. of farmers</b> | 50 |
| <b>Performance indicator</b>                        | Growth rate, reproductive performance, Economic indicator – FCR, BC ratio, Farmer Feedback |                       |    |



**FLD 6**

|                                                     |                                                                                                                |                       |    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------|----|
| <b>Title of FLD</b>                                 | Demonstration of high yielding variety of Groundnut GNK 181                                                    |                       |    |
| <b>Season &amp; Year</b>                            | Kharif 2025                                                                                                    |                       |    |
| <b>Main Problem</b>                                 | Low yield potential of the prevalent varieties                                                                 |                       |    |
| <b>Main cause of problem</b>                        | Unavailability of high yielding varieties of ground nut                                                        |                       |    |
| <b>Full detail of farmer's Practice</b>             | Variety - M 13, Imbalanced fertilizer application, No seed treatment                                           |                       |    |
| <b>Name of the Technology</b>                       | HYV of Ground nut GNK 181                                                                                      |                       |    |
| <b>Full detail of technology to be demonstrated</b> | HYV K -1812, Seed rate : 100 kg/ha., Seed Treatment with Trichoderma, RDF: 25:50:20 kg/ha. NPK, IPM            |                       |    |
| <b>Thematic area</b>                                | Varietal demonstration                                                                                         |                       |    |
| <b>Source of Technology with year</b>               | Agriculture Research Station, Kadiri, Andhra Pradesh, 2020                                                     |                       |    |
| <b>Name of villages/Block</b>                       | Villages of Chanho& Angara block                                                                               |                       |    |
| <b>Farming situation</b>                            | Red laterite soil, upland, rainfed condition                                                                   |                       |    |
| <b>Area (ha)/Unit (No.)</b>                         | 13 ha                                                                                                          | <b>No. of farmers</b> | 33 |
| <b>Performance indicator</b>                        | No. of pegs/plant, Av. Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback |                       |    |

**FLD 7**

|                                                     |                                                                                                                                                                                                                                                 |                       |    |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----|
| <b>Title of FLD</b>                                 | Demonstration of high yield pigeon pea variety Rajeev Lochan                                                                                                                                                                                    |                       |    |
| <b>Season &amp; Year</b>                            | Kharif 2025                                                                                                                                                                                                                                     |                       |    |
| <b>Main Problem</b>                                 | <b>Low Productivity</b>                                                                                                                                                                                                                         |                       |    |
| <b>Main cause of problem</b>                        | Use of traditional variety<br>Fertiliser application is not as per recommendation<br>High incidence of pod borer                                                                                                                                |                       |    |
| <b>Full detail of farmer's Practice</b>             | Varieties of private sector                                                                                                                                                                                                                     |                       |    |
| <b>Name of the Technology</b>                       | HYV of pigeon pea- Rajeev Lochan                                                                                                                                                                                                                |                       |    |
| <b>Full detail of technology to be demonstrated</b> | Sowing of HYV Rajeev Lochan with Seed Rate 20 kg/ha, Line sowing at 60X15 cm, application of RDF 25: 50: 25 kg/ha. NPK, Seed Treatment with Rhizobium and PSB, Weed control by improved hoe, Control of pod borer with Indoxacarb @ 0.5 ml/lit. |                       |    |
| <b>Thematic area</b>                                | Varietal Demonstration                                                                                                                                                                                                                          |                       |    |
| <b>Source of Technology with year</b>               | Indira Gandhi Krishi Vishwavidyalaya, Chattisgarh                                                                                                                                                                                               |                       |    |
| <b>Name of villages/Block</b>                       | Villages of Chanho and Tamar block                                                                                                                                                                                                              |                       |    |
| <b>Farming situation</b>                            | Red laterite soil, upland, Rainfed condition                                                                                                                                                                                                    |                       |    |
| <b>Area (ha)/Unit (No.)</b>                         | 15 ha                                                                                                                                                                                                                                           | <b>No. of farmers</b> | 38 |
| <b>Performance indicator</b>                        | Av. Yield (Q/ha), Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback                                                                                                                                                     |                       |    |

**FLD 8**

|                                         |                                                                                                                                          |  |  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Title of FLD</b>                     | Nutri-Gardens: A Way to Ensure Round the year vegetable Food Security                                                                    |  |  |
| <b>Season &amp; Year</b>                | Round the year 2025                                                                                                                      |  |  |
| <b>Main Problem</b>                     | Poor health status and micronutrient related deficiency due to poor consumption of fruits and vegetable                                  |  |  |
| <b>Main cause of problem</b>            | Low or no cultivation and consumption of all type of seasonal fruits and vegetable including leafy vegetable, tubers and other vegetable |  |  |
| <b>Full detail of farmer's Practice</b> | Home stead kitchen garden                                                                                                                |  |  |

|                                  |                                                                                                                                                                         |                |    |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|
| <b>Name of the Technology</b>    | Nutritional Security through Nutri-Garden                                                                                                                               |                |    |
| <b>Full detail of technology</b> | One Dismil Nutri-Garden Model for a family of 4-5 Member, Seedling raising in Protray after seed treatment with trichoderma, Organic insect-pest and disease management |                |    |
| <b>Thematic area</b>             | Fruits and vegetable production                                                                                                                                         |                |    |
| <b>Source of Technology</b>      | BAU & KVK Ranchi (DST project)                                                                                                                                          |                |    |
| <b>Name of villages</b>          | Chaingara, Burmu block                                                                                                                                                  |                |    |
| <b>Farming situation</b>         | Home stead                                                                                                                                                              |                |    |
| <b>Area (ha)/Unit (No.)</b>      | 1 dismil                                                                                                                                                                | No. of farmers | 25 |
| <b>Performance indicator</b>     | (I) Technical indicator- Av. production per unit<br>(II) Economic indicator – Cost of cultivation per unit, cost of saving per unit<br>(III) Farmer Feedback            |                |    |

#### FLD 9

|                                                     |                                                                                                                                                                        |                       |    |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----|
| <b>Title of FLD</b>                                 | Demonstration of oyster mushroom ( <i>Pleurotus florida</i> ) production for nutritional security                                                                      |                       |    |
| <b>Season &amp; Year</b>                            | Throughout the year 2025                                                                                                                                               |                       |    |
| <b>Main Problem</b>                                 | Low production                                                                                                                                                         |                       |    |
| <b>Main cause of problem</b>                        | No proper disease and pest management                                                                                                                                  |                       |    |
| <b>Full detail of farmer's Practice</b>             | No adoption of proper care and management practice                                                                                                                     |                       |    |
| <b>Name of the Technology</b>                       | Improved production technology of oyster mushroom                                                                                                                      |                       |    |
| <b>Full detail of technology to be demonstrated</b> | Oyster Mushroom Spawning on paddy straw substrate in bag size of 2 feet X 1.5 feet (August to January), Sterilization of substrate material with bavistin and formalin |                       |    |
| <b>Thematic area</b>                                | Nutritional security                                                                                                                                                   |                       |    |
| <b>Source of Technology with year</b>               | BAU, Ranchi , Jharkhand                                                                                                                                                |                       |    |
| <b>Name of villages/Block</b>                       | Angara, Burmu, Kanke and Bero                                                                                                                                          |                       |    |
| <b>Farming situation</b>                            | In house production system                                                                                                                                             |                       |    |
| <b>Area (ha)/Unit (No.)</b>                         | 25 Units                                                                                                                                                               | <b>No. of farmers</b> | 25 |
| <b>Performance indicator</b>                        | (I) Yield (kg/Bag)<br>(II) Economic indicator- Cost of cultivation, Gross return, Net return, B:C ratio<br>(III) Farmer Feedback                                       |                       |    |

#### FLD 10

|                                         |                                                                         |  |  |
|-----------------------------------------|-------------------------------------------------------------------------|--|--|
| <b>Title of FLD</b>                     | Demonstration of weed management through cycle hoe in cole crops        |  |  |
| <b>Season &amp; Year</b>                | Rabi 2025-26                                                            |  |  |
| <b>Main Problem</b>                     | Yield reduction                                                         |  |  |
| <b>Main cause of problem</b>            | Competition between weed and main crop for nutrient and water resources |  |  |
| <b>Full detail of farmer's Practice</b> | Hand Weeding                                                            |  |  |
| <b>Name of the Technology</b>           | Weed management in vegetable crops through cycle hoe                    |  |  |
| <b>Full detail of technology</b>        | Two weeding with cycle hoe in cauliflower                               |  |  |
| <b>Thematic area</b>                    | Weed management                                                         |  |  |

|                              |                                                                                            |                |    |
|------------------------------|--------------------------------------------------------------------------------------------|----------------|----|
| <b>Source of Technology</b>  | Sharad College of Agriculture, Jainapur, Shirol, Kolhapur, Maharashtra                     |                |    |
| <b>Name of villages</b>      | Choreya (Chanho), Pancha (Ormanjhi)                                                        |                |    |
| <b>Farming situation</b>     | Upland, irrigated condition                                                                |                |    |
| <b>Area (ha)/Unit (No.)</b>  | 2                                                                                          | No. of farmers | 25 |
| <b>Performance indicator</b> | Growth rate, reproductive performance, Economic indicator – FCR, BC ratio, Farmer Feedback |                |    |

#### FLD 11

|                                                     |                                                                                                                                                                                                                   |                |   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---|
| <b>Title of FLD</b>                                 | Demonstration of Italian bee-keeping practice                                                                                                                                                                     |                |   |
| <b>Season &amp; Year</b>                            | Kharif 2025                                                                                                                                                                                                       |                |   |
| <b>Main Problem</b>                                 | Low production capacity                                                                                                                                                                                           |                |   |
| <b>Main cause of problem</b>                        | High incidence of pest and diseases                                                                                                                                                                               |                |   |
| <b>Full detail of farmer's Practice</b>             | At present farmers mostly cultivate traditional method of Beekeeping with no practice of migration and pest management                                                                                            |                |   |
| <b>Name of the Technology</b>                       | Italian Bee Keeping                                                                                                                                                                                               |                |   |
| <b>Full detail of technology to be demonstrated</b> | Italian Bee Keeping with 6 frames/per colony with migration (September to June) in 4-5 bee flora area, Application of formic acid and sulphur for mite control in Rainy season, Artificial feeding in off-season. |                |   |
| <b>Thematic area</b>                                | Quality lac production                                                                                                                                                                                            |                |   |
| <b>Source of Technology with year</b>               | BAU, Ranchi , Jharkhand                                                                                                                                                                                           |                |   |
| <b>Name of villages/Block</b>                       | Angara, Tamarh and Bero                                                                                                                                                                                           |                |   |
| <b>Farming situation</b>                            | Rain fed farming and Beekeeping based IFS                                                                                                                                                                         |                |   |
| <b>Area (ha)/Unit (No.)</b>                         | 50 Bee Colonies                                                                                                                                                                                                   | No. of farmers | 5 |
| <b>Performance indicator</b>                        | Yield (kg/box), Economic indicator- Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback                                                                                                     |                |   |

#### FLD 12

|                                                     |                                                                                                                                                                                                                                                                                                                                                                         |                       |    |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----|
| <b>Title of FLD</b>                                 | Demonstration of quality Kusumi Lac production in Ber plant                                                                                                                                                                                                                                                                                                             |                       |    |
| <b>Season &amp; Year</b>                            | Kharif 2025                                                                                                                                                                                                                                                                                                                                                             |                       |    |
| <b>Main Problem</b>                                 | Low productivity of lac                                                                                                                                                                                                                                                                                                                                                 |                       |    |
| <b>Main cause of problem</b>                        | High incidence of black, white moth and green lacewings insect                                                                                                                                                                                                                                                                                                          |                       |    |
| <b>Full detail of farmer's Practice</b>             | No proper approach of disease and pest management.                                                                                                                                                                                                                                                                                                                      |                       |    |
| <b>Name of the Technology</b>                       | Quality Kusumi Lac Production                                                                                                                                                                                                                                                                                                                                           |                       |    |
| <b>Full detail of technology to be demonstrated</b> | <ul style="list-style-type: none"> <li>1st spray of Fipronil (1.5 ml/lit.) @ 30 days after inoculation of brood lac</li> <li>2<sup>nd</sup> and 3<sup>rd</sup> sprays of indoxacarb (0.5 ml/lit.) @ 60 and 90 days after inoculation, respectively</li> <li>Need based spray of fungicide hexaconazole @ 0.5 ml/ lit.</li> <li>Quality brood lac inoculation</li> </ul> |                       |    |
| <b>Thematic area</b>                                | Quality lac production                                                                                                                                                                                                                                                                                                                                                  |                       |    |
| <b>Source of Technology with year</b>               | ICAR- NISA, Ranchi , Jharkhand                                                                                                                                                                                                                                                                                                                                          |                       |    |
| <b>Name of villages/Block</b>                       | Angara and Silli                                                                                                                                                                                                                                                                                                                                                        |                       |    |
| <b>Farming situation</b>                            | Rain fed farming and Lac production based IFS                                                                                                                                                                                                                                                                                                                           |                       |    |
| <b>Area (ha)/Unit (No.)</b>                         | 50 plants                                                                                                                                                                                                                                                                                                                                                               | <b>No. of farmers</b> | 25 |

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Performance indicator</b> | Av.Yield (kg/Plant) , Cost of cultivation, Gross return, Net return, B:C ratio, Farmer Feedback |
|------------------------------|-------------------------------------------------------------------------------------------------|

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

#### A) ON Campus

| Thematic Area                                         | No. of Courses | No. of Participants |        |       |       |        |       | Grand Total |
|-------------------------------------------------------|----------------|---------------------|--------|-------|-------|--------|-------|-------------|
|                                                       |                | Others              |        |       | SC/ST |        |       |             |
|                                                       |                | Male                | Female | Total | Male  | Female | Total |             |
| <b>(A) Farmers &amp; Farm Women</b>                   |                |                     |        |       |       |        |       |             |
| <b>I Crop Production</b>                              |                |                     |        |       |       |        |       |             |
| Weed Management                                       | -              | -                   | -      | -     | -     | -      | -     | -           |
| Resource Conservation Technologies                    | -              | -                   | -      | -     | -     | -      | -     | -           |
| Cropping Systems                                      | -              | -                   | -      | -     | -     | -      | -     | -           |
| Crop Diversification                                  | -              | -                   | -      | -     | -     | -      | -     | -           |
| Site specific nutrient management                     | -              | -                   | -      | -     | -     | -      | -     | -           |
| Integrated Farming                                    | 45             | 00                  | 00     | 0     | 100   | 400    | 500   | 500         |
| Water management                                      | -              | -                   | -      | -     | -     | -      | -     | -           |
| Seed production                                       | 1              | 8                   | 0      | 8     | 10    | 2      | 12    | 20          |
| Nursery management                                    | -              | -                   | -      | -     | -     | -      | -     | -           |
| Integrated Crop Management                            | -              | -                   | -      | -     | -     | -      | -     | -           |
| Fodder production                                     | -              | -                   | -      | -     | -     | -      | -     | -           |
| Production of organic inputs                          | -              | -                   | -      | -     | -     | -      | -     | -           |
| Natural farming                                       | -              | -                   | -      | -     | -     | -      | -     | -           |
| <b>II Horticulture</b>                                |                |                     |        |       |       |        |       |             |
| <b>a) Vegetable Crops</b>                             |                |                     |        |       |       |        |       |             |
| Production of low volume and high value crops         | 1              | 10                  | 3      | 13    | 5     | 2      | 7     | 20          |
| Off-season vegetables                                 | -              | -                   | -      | -     | -     | -      | -     | -           |
| Nursery raising                                       | -              | -                   | -      | -     | -     | -      | -     | -           |
| Exotic vegetables like Broccoli                       | -              | -                   | -      | -     | -     | -      | -     | -           |
| Export potential vegetables                           | -              | -                   | -      | -     | -     | -      | -     | -           |
| Grading and standardization                           | -              | -                   | -      | -     | -     | -      | -     | -           |
| Protective cultivation (Green Houses, Shade Net etc.) | -              | -                   | -      | -     | -     | -      | -     | -           |
| Natural farming                                       | -              | -                   | -      | -     | -     | -      | -     | -           |
| <b>b) Fruits</b>                                      |                |                     |        |       |       |        |       |             |
| Training and Pruning                                  | -              | -                   | -      | -     | -     | -      | -     | -           |
| Layout and Management of Orchards                     | -              | -                   | -      | -     | -     | -      | -     | -           |
| Cultivation of Fruit                                  | -              | -                   | -      | -     | -     | -      | -     | -           |
| Management of young plants/orchards                   | -              | -                   | -      | -     | -     | -      | -     | -           |
| Rejuvenation of old orchards                          | -              | -                   | -      | -     | -     | -      | -     | -           |
| Export potential fruits                               | -              | -                   | -      | -     | -     | -      | -     | -           |
| Micro irrigation systems of orchards                  | -              | -                   | -      | -     | -     | -      | -     | -           |
| Plant propagation techniques                          | -              | -                   | -      | -     | -     | -      | -     | -           |
| <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                                 | - | - | - | - | - | - | - | - |
| 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 |           |           |          |           |            |            |            |            |
| Small scale processing and value addition               | -         | -         | -        | -         | -          | -          | -          | -          |
| Post-Harvest Technology                                 | -         | -         | -        | -         | -          | -          | -          | -          |
| <b>VII Plant Protection</b>                             | -         | -         | -        | -         | -          | -          | -          | -          |
| Integrated Pest Management                              | -         | -         | -        | -         | -          | -          | -          | -          |
| Integrated Disease Management                           | -         | -         | -        | -         | -          | -          | -          | -          |
| 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                            | -         | -         | -        | -         | -          | -          | -          | -          |
| 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/FPOs etc               | -         | -         | -        | -         | -          | -          | -          | -          |
| 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                              | -         | -         | -        | -         | -          | -          | -          | -          |
| <b>XII Others (Pl. Specify)</b>                         | -         | -         | -        | -         | -          | -          | -          | -          |
| <b>TOTAL</b>                                            | <b>15</b> | <b>46</b> | <b>9</b> | <b>54</b> | <b>135</b> | <b>410</b> | <b>176</b> | <b>600</b> |

|                        |   |    |    |    |    |    |    |    |
|------------------------|---|----|----|----|----|----|----|----|
| <b>(B) RURAL YOUTH</b> |   |    |    |    |    |    |    |    |
| Mushroom Production    | 2 | 6  | 4  | 10 | 32 | 8  | 40 | 50 |
| Bee-keeping            | 4 | 10 | 11 | 21 | 67 | 11 | 78 | 99 |

|                                                         |   |    |    |    |    |    |    |    |
|---------------------------------------------------------|---|----|----|----|----|----|----|----|
| Integrated farming                                      |   |    |    |    |    |    |    |    |
| Seed production                                         | 1 | 3  | 2  | 5  | 16 | 4  | 20 | 25 |
| Production of organic inputs                            | - | -  | -  | -  | -  | -  | -  | -  |
| Integrated Farming (Medicinal)                          | - | -  | -  | -  | -  | -  | -  | -  |
| INM                                                     | 2 | 10 | 10 | 20 | 20 | 10 | 30 | 50 |
| Planting material production                            | - | -  | -  | -  | -  | -  | -  | -  |
| Vermi-culture                                           | - | -  | -  | -  | -  | -  | -  | -  |
| Sericulture                                             | - | -  | -  | -  | -  | -  | -  | -  |
| Protected cultivation of vegetable crops                | - | -  | -  | -  | -  | -  | -  | -  |
| Commercial fruit production                             | - | -  | -  | -  | -  | -  | -  | -  |
| Repair and maintenance of farm machinery and implements | - | -  | -  | -  | -  | -  | -  | -  |
| Nursery Management of Horticulture crops                | - | -  | -  | -  | -  | -  | -  | -  |
| Training and pruning of orchards                        | - | -  | -  | -  | -  | -  | -  | -  |
| Value addition                                          | 1 | 0  | 10 | 10 | 0  | 10 | 10 | 20 |
| Production of quality animal products                   | - | -  | -  | -  | -  | -  | -  | -  |
| Dairying                                                | - | -  | -  | -  | -  | -  | -  | -  |
| Sheep and goat rearing                                  | 2 | 6  | 04 | 10 | 32 | 8  | 40 | 50 |
| 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                                            | - | -  | -  | -  | -  | -  | -  | -  |
| Lac production                                          | - | -  | -  | -  | -  | -  | -  | -  |
| Natural/Organic Farming                                 | 3 | 12 | 9  | 21 | 47 | 19 | 66 | 87 |

|                                                       |           |           |           |            |            |           |            |            |
|-------------------------------------------------------|-----------|-----------|-----------|------------|------------|-----------|------------|------------|
| <b>TOTAL</b>                                          | <b>22</b> | <b>71</b> | <b>65</b> | <b>136</b> | <b>322</b> | <b>93</b> | <b>415</b> | <b>551</b> |
| <b>(C) Extension Personnel</b>                        | -         | -         | -         | -          | -          | -         | -          | -          |
| Productivity enhancement in field crops               | -         | -         | -         | -          | -          | -         | -          | -          |
| Integrated Pest Management                            | -         | -         | -         | -          | -          | -         | -          | -          |
| Integrated Nutrient management                        | -         | -         | -         | -          | -          | -         | -          | -          |
| Rejuvenation of old orchards                          | -         | -         | -         | -          | -          | -         | -          | -          |
| Protected cultivation technology                      | -         | -         | -         | -          | -          | -         | -          | -          |
| Formation and Management of SHGs                      | -         | -         | -         | -          | -          | -         | -          | -          |
| Group Dynamics and farmers organization               | -         | -         | -         | -          | -          | -         | -          | -          |
| Information networking among farmers                  | -         | -         | -         | -          | -          | -         | -          | -          |
| Capacity building for ICT application                 | -         | -         | -         | -          | -          | -         | -          | -          |
| Care and maintenance of farm machinery and implements | -         | -         | -         | -          | -          | -         | -          | -          |
| WTO and IPR issues                                    | -         | -         | -         | -          | -          | -         | -          | -          |
| Management in farm animals                            | -         | -         | -         | -          | -          | -         | -          | -          |
| Livestock feed and fodder production                  | 1         | 6         | 1         | 7          | 23         | 6         | 29         | 36         |
| Household food security                               | -         | -         | -         | -          | -          | -         | -          | -          |
| Women and Child care                                  | -         | -         | -         | -          | -          | -         | -          | -          |
| Low cost and nutrient efficient diet designing        | -         | -         | -         | -          | -          | -         | -          | -          |
| Production and use of organic inputs                  | -         | -         | -         | -          | -          | -         | -          | -          |
| Gender mainstreaming through SHGs                     | -         | -         | -         | -          | -          | -         | -          | -          |

|                             |           |           |          |           |            |           |            |            |
|-----------------------------|-----------|-----------|----------|-----------|------------|-----------|------------|------------|
| Any other (Weed Management) | 1         | 6         | 1        | 7         | 23         | 6         | 29         | 36         |
| <b>TOTAL</b>                | <b>2</b>  | <b>12</b> | <b>2</b> | <b>14</b> | <b>46</b>  | <b>12</b> | <b>58</b>  | <b>72</b>  |
| <b>G. Total</b>             | <b>41</b> | <b>48</b> | <b>9</b> | <b>57</b> | <b>141</b> | <b>42</b> | <b>183</b> | <b>240</b> |

**B) OFF Campus Note: 25 participants per training**

| Thematic Area                                         |   | No. of Courses | No. of Participants |        |       |       |        |       |             |
|-------------------------------------------------------|---|----------------|---------------------|--------|-------|-------|--------|-------|-------------|
|                                                       |   |                | Others              |        |       | SC/ST |        |       | Grand Total |
|                                                       |   |                | Male                | Female | Total | Male  | Female | Total |             |
| <b>(A) Farmers &amp; Farm Women</b>                   |   |                |                     |        |       |       |        |       |             |
| <b>Crop Production</b>                                |   |                |                     |        |       |       |        |       |             |
| Crop management                                       | 7 | 35             | 14                  | 49     | 119   | 42    | 161    | 210   |             |
| Weed Management                                       | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Resource Conservation Technologies                    | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Cropping Systems                                      | 1 | 5              | 2                   | 7      | 17    | 6     | 23     | 30    |             |
| Crop Diversification                                  | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Integrated Farming                                    | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Water management                                      | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Seed production                                       | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Nursery management                                    | 2 | 10             | 4                   | 14     | 34    | 12    | 46     | 60    |             |
| Integrated Crop Management                            | 1 | 5              | 2                   | 7      | 17    | 6     | 23     | 30    |             |
| Fodder production                                     | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Production of organic inputs                          | 1 | 5              | 2                   | 7      | 17    | 6     | 23     | 30    |             |
| Crop Improvement                                      | 2 | 10             | 4                   | 14     | 34    | 12    | 46     | 60    |             |
| <b>II Horticulture</b>                                |   |                |                     |        |       |       |        |       |             |
| <b>a) Vegetable Crops</b>                             |   |                |                     |        |       |       |        |       |             |
| Production of low volume and high value crops         | 3 | 16             | 6                   | 22     | 40    | 8     | 53     | 75    |             |
| organic vegetable cultivation                         | 1 | 5              | 2                   | 7      | 17    | 6     | 23     | 25    |             |
| Nursery raising                                       | 2 | 10             | 4                   | 14     | 34    | 12    | 46     | 55    |             |
| Exotic vegetables like Broccoli                       | 1 | 5              | 2                   | 7      | 14    | 04    | 18     | 25    |             |
| Export potential vegetables                           | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Grading and standardization                           | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Protective cultivation (Green Houses, Shade Net etc.) | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Crop Improvement                                      | 4 | 25             | 9                   | 34     | 55    | 25    | 80     | 114   |             |
| <b>b) Fruits</b>                                      |   |                |                     |        |       |       |        |       |             |
| Training and Pruning                                  | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Layout and Management of Orchards                     | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Cultivation of Fruit                                  | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Management of young plants/orchards                   | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Rejuvenation of old orchards                          | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Export potential fruits                               | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Micro irrigation systems of orchards                  | - | -              | -                   | -      | -     | -     | -      | -     |             |
| Plant propagation techniques                          | - | -              | -                   | -      | -     | -     | -      | -     |             |
| <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                                 | - | -  | -  | -  | -  | -  | -   | -   |
| 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                                       | 4 | 10 | 4  | 14 | 78 | 28 | 106 | 120 |
| Production and use of organic inputs                                 | 1 | 5  | -  | 5  | 21 | 4  | 25  | 30  |
| Management of Problematic soils                                      | - | -  | -  | -  | -  | -  | -   | -   |
| Micro nutrient deficiency in crops                                   | 1 | 1  | 9  | 10 | 16 | 4  | 20  | 30  |
| Nutrient Use Efficiency                                              | - | -  | -  | -  | -  | -  | -   | -   |
| Soil and Water Testing                                               | - | -  | -  | -  | -  | -  | -   | -   |
| <b>IV Livestock Production and Management</b>                        |   |    |    |    |    |    |     |     |
| Dairy Management                                                     | 1 | 1  | 9  | 10 | 16 | 4  | 20  | 30  |
|                                                                      | - | -  | -  | -  | -  | -  | -   | -   |
| Poultry Management                                                   | - | -  | -  | -  | -  | -  | -   | -   |
| Piggery Management                                                   | - | -  | -  | -  | -  | -  | -   | -   |
| Rabbit Management /goat                                              | 3 | 5  | 0  | 5  | 63 | 24 | 87  | 92  |
| Disease Management                                                   | 5 | 30 | 6  | 36 | 95 | 16 | 111 | 152 |
| Feed management                                                      | 1 | 1  | 9  | 10 | 16 | 4  | 20  | 30  |
| Production of quality animal products                                | 1 | 1  | 9  | 10 | 16 | 4  | 20  | 30  |
| <b>V Home Science/Women empowerment</b>                              |   |    |    |    |    |    |     |     |
| Household food security by kitchen gardening and nutrition gardening | 1 | -  | 5  | 5  | -  | 25 | 25  | 30  |
| 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                                                       | 3 |    | 15 | 15 |    | 75 | 75  | 90  |
| 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              | - | -  | -  | -  | -  | -  | -   | -   |
| Small scale processing and value addition                            | - | -  | -  | -  | -  | -  | -   | -   |
| Post Harvest Technology                                              | - | -  | -  | -  | -  | -  | -   | -   |
| <b>VII Plant Protection</b>                                          |   |    |    |    |    |    |     |     |
| Integrated Pest Management                                           | 8 | 31 | 24 | 55 | 80 | 46 | 126 | 180 |
| Integrated Disease Management                                        | - | -  | -  | -  | -  | -  | -   | -   |
| Bio-control of pests and diseases                                    | - | -  | -  | -  | -  | -  | -   | -   |

|                                                      |           |            |            |            |            |            |             |             |
|------------------------------------------------------|-----------|------------|------------|------------|------------|------------|-------------|-------------|
| Production of bio control agents and bio pesticides  | -         | -          | -          | -          | -          | -          | -           | -           |
| <b>VIII Fisheries</b>                                | -         | -          | -          | -          | -          | -          | -           | -           |
| Integrated fish farming                              | 1         | 0          | 0          | 0          | 22         | 8          | 30          | 30          |
| 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                                      | 4         | 20         | 8          | 28         | 68         | 24         | 92          | 120         |
| Planting material production (Horti.)                | -         | -          | -          | -          | -          | -          | -           | -           |
| Bio-agents production                                | -         | -          | -          | -          | -          | -          | -           | -           |
| Bio-pesticides production                            | 01        | 4          | 4          | 8          | 12         | 6          | 18          | 26          |
| 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                              | 1         | 3          | 4          | 7          | 15         | 6          | 21          | 28          |
| Nursery management                                   | -         | -          | -          | -          | -          | -          | -           | -           |
| Integrated Farming Systems (Agro)                    | -         | -          | -          | -          | -          | -          | -           | -           |
| Bee keeping                                          | 1         | 3          | 4          | 7          | 15         | 6          | 21          | 28          |
| <b>XII Others (Pl. Specify)</b>                      | -         | -          | -          | -          | -          | -          | -           | -           |
| <b>TOTAL</b>                                         | <b>62</b> | <b>246</b> | <b>161</b> | <b>407</b> | <b>931</b> | <b>423</b> | <b>1359</b> | <b>1760</b> |

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

| Thematic Area                      |   | No. of Courses | No. of Participants |        |       |       |        |       | Grand Total |
|------------------------------------|---|----------------|---------------------|--------|-------|-------|--------|-------|-------------|
|                                    |   |                | Others              |        |       | SC/ST |        |       |             |
|                                    |   |                | Male                | Female | Total | Male  | Female | Total |             |
| (A) Farmers & Farm Women           |   |                |                     |        |       |       |        |       |             |
| I Crop Production                  |   |                |                     |        |       |       |        |       |             |
| Weed Management                    | 1 | 5              | 2                   | 7      | 17    | 6     | 23     | 30    |             |
| Resource Conservation Technologies | - | -              | -                   | -      | -     | -     | -      | -     |             |

|                                                       |    |    |    |    |     |     |     |     |
|-------------------------------------------------------|----|----|----|----|-----|-----|-----|-----|
| Cropping Systems                                      | 1  | 5  | 2  | 7  | 17  | 6   | 23  | 30  |
| Crop Diversification                                  | 1  | 5  | 2  | 7  | 17  | 6   | 23  | 30  |
| Integrated Farming                                    | 10 | 0  | 0  | 0  | 100 | 400 | 500 | 500 |
| Water management                                      | -  | -  | -  | -  | -   | -   | -   | -   |
| Seed production                                       | 1  | 5  | 2  | 7  | 17  | 6   | 23  | 30  |
| Seed storage                                          | 1  | 5  | 2  | 7  | 17  | 6   | 23  | 30  |
| Nursery management                                    | 1  | 5  | 2  | 7  | 17  | 6   | 23  | 30  |
| Integrated Crop Management                            | 6  | 30 | 12 | 42 | 102 | 36  | 138 | 180 |
| Fodder production                                     | -  | -  | -  | -  | -   | -   | -   | -   |
| Production of organic inputs                          | -  | -  | -  | -  | -   | -   | -   | -   |
| Crop cultivation                                      | 4  | 20 | 8  | 28 | 68  | 24  | 92  | 120 |
| <b>II Horticulture</b>                                |    |    |    |    |     |     |     |     |
| <b>a) Vegetable Crops</b>                             | -  | -  | -  | -  | -   | -   | -   | -   |
| Production of low volume and high value crops         | 8  | 51 | 18 | 69 | 100 | 35  | 140 | 209 |
| Off-season vegetables                                 | -  | -  | -  | -  | -   | -   | -   | -   |
| Nursery raising                                       | 01 | 05 | 2  | 7  | 17  | 06  | 23  | 25  |
| Exotic vegetables like Broccoli                       | 01 | 05 | 2  | 7  | 14  | 04  | 18  | 25  |
| Export potential vegetables                           | -  | -  | -  | -  | -   | -   | -   | -   |
| Grading and standardization                           | -  | -  | -  | -  | -   | -   | -   | -   |
| Protective cultivation (Green Houses, Shade Net etc.) | -  | -  | -  | -  | -   | -   | -   | -   |
| Organic vegetable cultivation                         | 01 | 05 | 2  | 7  | 17  | 06  | 23  | 25  |
| Grading and Standardization of vegetables             | 01 | 05 | 2  | 7  | 014 | 04  | 18  | 25  |
| Water conservation                                    | -  | -  | -  | -  | -   | -   | -   | -   |
| <b>b) Fruits</b>                                      | -  | -  | -  | -  | -   | -   | -   | -   |
| Training and Pruning                                  | -  | -  | -  | -  | -   | -   | -   | -   |
| Layout and Management of Orchards                     | -  | -  | -  | -  | -   | -   | -   | -   |
| Cultivation of Fruit                                  | -  | -  | -  | -  | -   | -   | -   | -   |
| Management of young plants/orchards                   | -  | -  | -  | -  | -   | -   | -   | -   |
| Rejuvenation of old orchards                          | -  | -  | -  | -  | -   | -   | -   | -   |
| Export potential fruits                               | -  | -  | -  | -  | -   | -   | -   | -   |
| Micro irrigation systems of orchards                  | -  | -  | -  | -  | -   | -   | -   | -   |
| Plant propagation techniques                          | -  | -  | -  | -  | -   | -   | -   | -   |
| <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                  | -  | -  | -  | -  | -   | -   | -   | -   |
| 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                                            | 1 | 0  | 0  | 0  | 22 | 8  | 30  | 30  |
| Soil and Water Conservation                                          | - | -  | -  | -  | -  | -  | -   | -   |
| Integrated Nutrient Management                                       | 5 | 11 | 13 | 24 | 94 | 32 | 126 | 150 |
| Production and use of organic inputs                                 | 1 | 5  | 0  | 5  | 21 | 4  | 25  | 30  |
| 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                                                   | 1 | 5  | 0  | 5  | 23 | 4  | 27  | 32  |
| Rabbit Management/goat                                               | - | -  | -  | -  | -  | -  | -   | -   |
| Disease Management                                                   | 5 | 30 | 6  | 36 | 95 | 16 | 111 | 152 |
| Feed management                                                      | 1 | 1  | 9  | 10 | 16 | 4  | 20  | 30  |
| Production of quality animal products                                | 1 | 1  | 9  | 10 | 16 | 4  | 20  | 30  |
| <b>V Home Science/Women empowerment</b>                              |   |    |    |    |    |    |     |     |
| Household food security by kitchen gardening and nutrition gardening | 1 | -  | 5  | 5  | -- | 25 | 25  | 30  |
| Design and development of low/minimum cost diet                      | 1 | -  | 5  | 5  | -- | 25 | 25  | 30  |
| Designing and development for high nutrient efficiency diet          | - | -  | -  | -  | -  | -  | -   | -   |
| Minimization of nutrient loss in processing                          | - | -  | -  | -  | -  | -  | -   | -   |
| Gender mainstreaming through SHGs                                    | - | -  | -  | -  | -  | -  | -   | -   |
| Storage loss minimization techniques                                 | - | -  | -  | -  | -  | -  | -   | -   |
| Value addition                                                       | 2 | 0  | 10 | 10 | 20 | 50 | 50  | 60  |
| Income generation activities for empowerment of rural Women          | 4 | 5  | 17 | 22 | 10 | 78 | 88  | 110 |
| Location specific drudgery reduction technologies                    | 1 | -  | 5  | 5  | -  | 25 | 25  | 30  |
| Rural Crafts                                                         |   |    |    |    |    |    |     |     |
| Women and child care                                                 | 1 | -  | 5  | 5  | -  | 25 | 25  | 30  |
| <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              | 1 | 5  | 2  | 7  | 10 | 3  | 13  | 20  |
| Small scale processing and value addition                            | - | -  | -  | -  | -  | -  | -   | -   |
| Post Harvest Technology                                              | - | -  | -  | -  | -  | -  | -   | -   |
| <b>VII Plant Protection</b>                                          |   |    |    |    |    |    |     |     |
| Integrated Pest Management                                           | 7 | 39 | 21 | 59 | 68 | 32 | 110 | 169 |
| Integrated Disease Management                                        | 2 | 8  | 6  | 14 | 26 | 10 | 36  | 50  |
| Bio-control of pests and diseases                                    | 2 | 10 | 4  | 14 | 34 | 12 | 46  | 60  |
| Production of bio control agents and bio pesticides                  | - | -  | -  | -  | -  | -  | -   | -   |
| <b>VIII Fisheries</b>                                                |   |    |    |    |    |    |     |     |
| Integrated fish farming                                              | 1 | 0  | 0  | 0  | 22 | 8  | 30  | 30  |

|                                                     |    |     |     |     |     |     |      |      |
|-----------------------------------------------------|----|-----|-----|-----|-----|-----|------|------|
| 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                                     | 1  | 8   | 0   | 8   | 10  | 2   | 12   | 20   |
| Planting material production                        | -  | -   | -   | -   | -   | -   | -    | -    |
| Bio-agents production                               | 1  | 5   | 2   | 7   | 17  | 6   | 23   | 30   |
| Bio-pesticides production                           | 01 | 4   | 4   | 8   | 12  | 6   | 18   | 26   |
| 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                                  | -  | -   | -   | -   | -   | -   | -    | -    |
| Bee keeping                                         | 01 | 3   | 4   | 7   | 15  | 6   | 21   | 28   |
| Lac production                                      | 01 | 3   | 4   | 7   | 15  | 6   | 21   | 28   |
| <b>TOTAL</b>                                        |    |     |     |     | 108 |     |      |      |
|                                                     | 81 | 633 | 189 | 482 | 0   | 942 | 2017 | 2494 |

|                                                         |           |           |           |           |            |           |            |            |
|---------------------------------------------------------|-----------|-----------|-----------|-----------|------------|-----------|------------|------------|
| <b>(B) RURAL YOUTH</b>                                  |           |           |           |           |            |           |            |            |
| Mushroom Production                                     | 2         | 6         | 4         | 10        | 32         | 8         | 40         | 50         |
| Bee-keeping                                             | 4         | 10        | 11        | 21        | 67         | 11        | 78         | 99         |
| Integrated farming                                      |           |           |           |           |            |           |            |            |
| Seed production                                         | 2         | 6         | 4         | 10        | 32         | 8         | 40         | 50         |
| Production of organic inputs                            | 3         | 12        | 9         | 21        | 47         | 19        | 66         | 87         |
| Resource management                                     |           |           |           |           |            |           |            |            |
| Nutrient management                                     | 1         | 5         | 5         | 10        | 10         | 5         | 15         | 25         |
| Planting material production                            | -         | -         | -         | -         | -          | -         | -          | -          |
| Vermi-culture                                           | -         | -         | -         | -         | -          | -         | -          | -          |
| Sericulture                                             | -         | -         | -         | -         | -          | -         | -          | -          |
| Protected cultivation of vegetable crops                | -         | -         | -         | -         | -          | -         | -          | -          |
| Commercial fruit production                             | -         | -         | -         | -         | -          | -         | -          | -          |
| Repair and maintenance of farm machinery and implements |           |           |           |           |            |           |            |            |
| Nursery Management of Horticulture crops                | -         | -         | -         | -         | -          | -         | -          | -          |
| Training and pruning of orchards                        | -         | -         | -         | -         | -          | -         | -          | -          |
| Value addition                                          | 1         | 0         | 10        | 10        | 0          | 10        | 10         | 20         |
| Production of quality animal products                   | -         | -         | -         | -         | -          | -         | -          | -          |
| Dairying                                                | -         | -         | -         | -         | -          | -         | -          | -          |
| Sheep and goat rearing                                  | 2         | 6         | 4         | 10        | 32         | 8         | 40         | 50         |
| 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                                            | -         | -         | -         | -         | -          | -         | -          | -          |
| Lac production                                          |           |           |           |           |            |           |            |            |
| <b>TOTAL</b>                                            | <b>15</b> | <b>45</b> | <b>47</b> | <b>92</b> | <b>220</b> | <b>69</b> | <b>289</b> | <b>381</b> |

|                                         |   |    |   |    |    |   |    |    |
|-----------------------------------------|---|----|---|----|----|---|----|----|
| <b>(C) Extension Personnel</b>          |   |    |   |    |    |   |    |    |
| Productivity enhancement in field crops | - | -  | - | -  | -  | - | -  | -  |
| Integrated Pest Management              | 1 | 25 | 9 | 34 | 19 | 6 | 25 | 59 |
| Integrated Nutrient management          | - | -  | - | -  | -  | - | -  | -  |
| Rejuvenation of old orchards            | - | -  | - | -  | -  | - | -  | -  |
| Protected cultivation technology        | - | -  | - | -  | -  | - | -  | -  |
| Formation and Management of SHGs        | - | -  | - | -  | -  | - | -  | -  |
| Group Dynamics and farmers organization | - | -  | - | -  | -  | - | -  | -  |
| Information networking among farmers    | - | -  | - | -  | -  | - | -  | -  |
| Capacity building for ICT application   | - | -  | - | -  | -  | - | -  | -  |

|                                                       |            |            |            |            |             |             |             |             |
|-------------------------------------------------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| Care and maintenance of farm machinery and implements | -          | -          | -          | -          | -           | -           | -           | -           |
| WTO and IPR issues                                    | -          | -          | -          | -          | -           | -           | -           | -           |
| Management in farm animals                            | 2          | 12         | 2          | 14         | 46          | 12          | 58          | 72          |
| Livestock feed and fodder production                  | 1          | 6          | 1          | 7          | 23          | 6           | 29          | 36          |
| Household food security                               | -          | -          | -          | -          | -           | -           | -           | -           |
| Women and Child care                                  | -          | -          | -          | -          | -           | -           | -           | -           |
| Low cost and nutrient efficient diet designing        | -          | -          | -          | -          | -           | -           | -           | -           |
| Production and use of organic inputs                  | -          | -          | -          | -          | -           | -           | -           | -           |
| Gender mainstreaming through SHGs                     | -          | -          | -          | -          | -           | -           | -           | -           |
| Any other (Weed management)                           | 1          | 6          | 1          | 7          | 23          | 6           | 29          | 36          |
| Any other (Bee Keeping)                               |            |            |            |            |             |             |             |             |
| Weed management                                       | 2          | 12         | 2          | 14         | 46          | 12          | 58          | 72          |
| <b>TOTAL</b>                                          | <b>7</b>   | <b>61</b>  | <b>15</b>  | <b>76</b>  | <b>157</b>  | <b>42</b>   | <b>199</b>  | <b>275</b>  |
| <b>G. Total</b>                                       | <b>103</b> | <b>739</b> | <b>251</b> | <b>650</b> | <b>1457</b> | <b>1053</b> | <b>2505</b> | <b>3150</b> |

Details of training programmes attached in Annexure -I

### 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                               | 10                | 765          | 255          | 1020         | 15                  | 5         | 20        | 780          | 260          | 1040         |
| KisanMela                               | 3                 | 2000         | 1000         | 3000         | 10                  | 5         | 15        | 2010         | 1005         | 3015         |
| KisanGhosthi                            | 10                | 300          | 150          | 450          | 10                  | 2         | 12        | 310          | 152          | 462          |
| Exhibition                              | 7                 | 700          | 500          | 1200         | 7                   | 3         | 10        | 707          | 503          | 1210         |
| Film Show                               | -                 | -            | -            | -            | -                   | -         | -         | -            | -            | -            |
| Farmers Seminar                         | 2                 | 300          | 200          | 500          | 2                   | 1         | 3         | 302          | 201          | 503          |
| Workshop                                | 10                | 600          | 100          | 700          | 0                   | 0         | 0         | 600          | 100          | 700          |
| Group meetings                          | 12                | 80           | 20           | 100          | 3                   | 2         | 5         | 83           | 22           | 105          |
| Lectures delivered as resource persons  | 10                | 200          | 50           | 250          | 3                   | 2         | 5         | 203          | 52           | 255          |
| Newspaper coverage                      | 75                | -            | -            | -            | -                   | -         | -         | -            | -            | -            |
| Radio talks                             | 6                 | -            | -            | -            | -                   | -         | -         | -            | -            | -            |
| TV talks                                | 15                | -            | -            | -            | -                   | -         | -         | -            | -            | -            |
| Popular articles                        | 15                | -            | -            | -            | -                   | -         | -         | -            | -            | -            |
| Extension Literature                    | 5                 | -            | -            | -            | -                   | -         | -         | -            | -            | -            |
| <b>Advisory Services</b>                | 12                | 250          | 10           | 260          | 3                   | 2         | 5         | 253          | 12           | 265          |
| Scientific visit to farmers field       | 20                | 300          | 150          | 450          | 0                   | 0         | 0         | 300          | 150          | 450          |
| Farmers visit to KVK                    | 20                | 15000        | 10000        | 25000        | 00                  | 00        | 00        | 15000        | 10000        | 25000        |
| Diagnostic visits                       | 5                 | 75           | 25           | 100          | 02                  | 00        | 02        | 77           | 25           | 102          |
| Exposure visits                         | 5                 | 1500         | 1000         | 2500         | 10                  | 0         | 0         | 1510         | 1000         | 2510         |
| Ex-trainees Sammelan                    | 1                 | 25           | 15           | 40           | 2                   | 1         | 3         | 27           | 16           | 43           |
| Soil health Camp                        | 2                 | 200          | 25           | 225          | 00                  | 00        | 00        | 200          | 25           | 225          |
| Animal Health Camp                      | 2                 | 50           | 25           | 75           | 0                   | 0         | 0         | 0            | 0            | 75           |
| Agri-mobile clinic                      | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| Soil test campaigns                     | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| Farm Science Club Conveners meet        | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| Self Help Group Conveners meetings      | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| MahilaMandals Conveners meetings        | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| Celebration of important days (specify) | 4                 | 225          | 50           | 300          | 2                   | 1         | 3         | 252          | 51           | 303          |
| KrishiMohostva                          | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| KrishiRath                              | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| Pre Kharif workshop                     | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| Pre Rabi workshop                       | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| PPVFRA workshop                         | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| Any Other (Specify)                     | 0                 | 0            | 0            | 0            | 0                   | 0         | 0         | 0            | 0            | 0            |
| <b>Total</b>                            | <b>251</b>        | <b>22570</b> | <b>13575</b> | <b>36170</b> | <b>69</b>           | <b>24</b> | <b>83</b> | <b>22614</b> | <b>13574</b> | <b>36263</b> |



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

#### A) SEED MATERIALS

| Sl. No.                 | Crop          | Variety                         | Quantity (qtl.) |
|-------------------------|---------------|---------------------------------|-----------------|
| <b>CEREALS</b>          |               |                                 |                 |
|                         | Paddy         | MTU 1010, Sahbhagi, CR Dhan 320 | 120             |
|                         | Scented Paddy | Bhutku                          | 10              |
|                         | Wheat         | DBW 187                         | 30              |
| <b>OILSEEDS</b>         | Mustard       | BBM-1                           | 28              |
| <b>PULSES</b>           | Pigeon pea    | Rajeev Lochan                   | 5               |
|                         | Green Gram    | Virat                           | 3               |
|                         | Black gram    | WBU 109                         | 3               |
|                         | Pea           | GS-10                           | 5               |
|                         | Gram          | SwarnLaxmi                      | 6               |
| <b>VEGETABLES</b>       | Potato        | KufriLalit                      | 200             |
| <b>OTHERS (Specify)</b> | Sesbania      | -                               | 4               |
| <b>Total</b>            |               |                                 | 414             |

#### B) PLANTING MATERIALS

| Sl. No.                 | Crop                            | Variety                                                                                                                                                                                                      | Quantity (Nos.) |
|-------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>FRUITS</b>           | Mango                           | Amarapali, Mallika, Langara, etc.                                                                                                                                                                            | 10000           |
|                         | Guava                           | Allahabad Safeda, Lucknow 49                                                                                                                                                                                 | 3000            |
|                         | Litchi                          | Shahi, China                                                                                                                                                                                                 | 2000            |
| <b>SPICES</b>           | -                               | -                                                                                                                                                                                                            | -               |
| Vegetables              |                                 | Brinjal var. SwarnaShayamli, Tomato var. ArkaSamrat, ArkaRakshak, Cauliflower var. Pusa Snowball 1 & 2, Cabbage var. Early Drumhead, Late Drum Head, Pusa Drum Head, Chilli var. ArkaMeghana, PusaJwala etc. | 60000           |
| <b>FOREST SPECIES</b>   | Karanj, Tephrosia, Subabul etc. | Local                                                                                                                                                                                                        | 3000            |
| <b>ORNAMENTAL CROPS</b> | All types                       | -                                                                                                                                                                                                            | 5000            |
|                         |                                 | <b>Total</b>                                                                                                                                                                                                 | <b>83000</b>    |

#### C) BIO-PRODUCT

| Sl. no.               | Product Name | Species | Quantity |      |
|-----------------------|--------------|---------|----------|------|
|                       |              |         | No.      | (kg) |
| <b>BIO PESTICIDES</b> |              |         |          |      |
| 1.                    | -            | -       | -        | -    |
| 2.                    | -            | -       | -        | -    |

#### D) LIVESTOCK

| Sl. No. | Type | Breed | Quantity |      |
|---------|------|-------|----------|------|
|         |      |       | (Nos.)   | Unit |
| Cattle  | -    | -     | -        | -    |

|                    |                      |                                            |       |      |
|--------------------|----------------------|--------------------------------------------|-------|------|
| <b>GOAT</b>        | -                    | -                                          | -     | -    |
| <b>SHEEP</b>       | -                    | -                                          | -     | -    |
| <b>POULTRY</b>     | Chicks and ducklings | Divyayan red, Khaki campbell, Vigova super | 15000 | nos. |
| <b>Pig farming</b> | -                    | -                                          | -     | -    |
| <b>FISHERIES</b>   | -                    | -                                          | -     | -    |

### 3.6 Literature to be Developed/Published

#### (A) KVK News Letter

Date of start : 1 July 2025

Number of copies to be published : 5

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

| S.No.        | Topic                          | Number    |
|--------------|--------------------------------|-----------|
| 1            | Research paper (by KVK team)   | 2         |
| 2            | Technical reports              | 5         |
| 3            | News letters                   | 5         |
| 4            | Training manual all discipline | 6         |
| 5            | Popular article                | 15        |
| 6            | Extension literature           | 10        |
| <b>Total</b> |                                | <b>43</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                                                                   | Lac producers of Ranchi   | 1      |
| 2      | Whatsapp group                                                                   | Honey Producers of Ranchi | 1      |

### 3.7. Success stories/Case studies identified for development as a case.

#### Two Success stories will be prepared

- Brief introduction/Background
- Interventions/process
- Output
- Outcomes
- Impact

i) Social economic

ii) Bio-Physical

- Good Action Photographs

### 3.8 Indicate the specific training need analysis tools/methodology followed for

#### Practicing Farmers

- Participatory Rural Appraisal (PRA)
- Focused Group Discussions (FGDs)
- Field Diagnostic visits and On -Farm observations

#### Rural Youth

- Skill Gap Assessment Surveys/ Structured interviews
- Youth Interaction Meetings/ Counselling Sessions
- Analysis of Feedback from earlier trainings
- Enterprise-specific Need Assessment

#### In-service personnel

- Structured TNA (Training Need Analysis) Questionnaire (Based on KVK/ATMA Modules)
- Consultative Meetings with Line Departments

c)Review of Extension Reports/ Performance Gaps

**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               |   |

**3.10 Field activities**

i. Name of villages identified/adopted with block name (from which year) -

| Block  | Village      | Adopted from (year) |
|--------|--------------|---------------------|
| Burmu  | Gutru        | 2022                |
| Burmu  | Chaingara    | 2022                |
| Burmu  | Mahadevtoli  | 2020                |
| Burmu  | Soba         | 2020                |
| Burmu  | Lawagarha    | 2019                |
| Burmu  | Murgi        | 2021                |
| Burmu  | Usku         | 2020                |
| Burmu  | Baraudi      | 2018                |
| Mandar | TangarBasli  | 2020                |
| Mandar | Pungi        | 2018                |
| Lapung | Balandu      | 2017                |
| Lapung | Katingdari   | 2020                |
| Angara | Kuturlowa    | 2018                |
| Angara | Sursu        | 2017                |
| Angara | Hundaru      | 2016                |
| Angara | Jaratoli     | 2021                |
| Angara | Soso         | 2020                |
| Angara | Dublabera    | 2018                |
| Angara | Kanshidih    | 2019                |
| Kanke  | Rarha        | 2020                |
| Nagri  | Palandu      | 2022                |
| Nagri  | Kudlung      | 2022                |
| Chanho | Sukurhuttu   | 2021                |
| Chanho | Lundari      | 2017                |
| Chanho | Harra        | 2016                |
| Chanho | Nanhu        | 2023                |
| Chanho | Madhukama    | 2025                |
| Chanho | Ranichauraya | 2024                |
| Chanho | Taranga      | 2022                |
| Chanho | Ralo         | 2022                |
| Chanho | Badhya       | 2020                |
| Chanho | Choliyo      | 2023                |
| Chanho | Mathatoli    | 2022                |
| Chanho | Gutuwa       | 2023                |
| Chanho | Choreya      | 2021                |
| Chanho | Lepsar       | 2023                |
| Chanho | Ranichancho  | 2021                |
| Chanho | Hara         | 2020                |
| Chanho | Chaliyo      | 2019                |
| Chanho | Karkat       | 2020                |

- ii. No. of farm families selected per village:
- iii. No. of PRA conducted:12
- iv. No. of technologies taken to the adopted villages - 24
- 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 : Functioning

1. Year of establishment : 1977

#### 2. List of equipment's purchase with amount

| Sl. No. | Name of the equipment                         | Quantity | Cost (Rs)  |
|---------|-----------------------------------------------|----------|------------|
| 1.      | Nitrogen Distillation unit                    | 1        | 244635.00  |
| 2.      | EC meter                                      | 1        | 13000.00   |
| 3.      | Analytical Balance                            | 1        | 8500.00    |
| 4.      | Digital Balance                               | 1        | 36565.00   |
| 5.      | Atomic Absorption Spectrophotometer (AAS)     | 1        | 2850880.00 |
| 6.      | DOUBLE BEAM UV-VIS SPECTROPHOTOMETER          | 1        | 464330.00  |
| 7.      | MICRO CONTROLLER BASED PH SYSTEM              | 1        | 28910.00   |
| 8.      | MICRO CONTROLLER BASED CONDUCTIVITY-TDS Meter | 1        | 36108.00   |
| 9.      | EC meter                                      | 1        | 13000.00   |
| 10.     | Hot air oven                                  | 1        | 11500.00   |
| 11.     | Autoclave                                     | 1        | 108560.00  |
| 12.     | Distillation unit                             | 1        | 234818.00  |
| 13.     | HPLC                                          | 1        | 400000.00  |

#### 3. Targets of samples for analysis:

| Details      | No. of Samples | No. of Farmers | No. of Villages | Amount to be realized |
|--------------|----------------|----------------|-----------------|-----------------------|
| Soil Samples | 1000           | 1000           | 10              | 75000                 |
| Water        | -              | -              | -               | -                     |
| Plant        | -              | -              | -               | -                     |
| Total        | 1000           | 1000           | 10              | 75000                 |

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations/department

| Sl.No. | Name of organization               | Nature of linkage                | Outcome of linkage |
|--------|------------------------------------|----------------------------------|--------------------|
| 1.     | Ministry of Tribal Affairs, G.O.I. | Training, Technical backstroking | Skill development  |

|     |                                        |                                                                    |                                                |
|-----|----------------------------------------|--------------------------------------------------------------------|------------------------------------------------|
| 2.  | Jharkhand Tribal Dev. Society          | Training, Technical backstopping                                   | Skill development                              |
| 3.  | NISA, Namkum, Ranchi                   | Technical backstopping, exposure visit                             | Awareness creation about Secondary Agriculture |
| 4.  | Birsa Agricultural University          | Technical backstopping, exposure visit                             | Technology transfer                            |
| 5.  | ICAR RCERFSRCH&PR, Plandu, Ranchi      | Technical backstopping, Training and Demonstration, exposure visit | Improved farm practices                        |
| 6.  | ATMA, Bihar and Jharkhand              | Training, Exposure and resource supply                             | Farmer outreach                                |
| 7.  | PCRA, New Delhi                        | Awareness, Agril. workshop                                         | Energy conservation                            |
| 8.  | IFFCO                                  | Training, workshop, demonstration                                  | Input efficiency                               |
| 9.  | CRURRS, Hazaribagh                     | Training & Demonstration                                           | Crop improvement                               |
| 10. | Regional Fodder Station, Kalyani, W.B. | Training & Demonstration                                           | Fodder development                             |
| 11. | ICAR-DRMR, Bharatpur, Rajasthan        | Technical backstopping, Demonstration, exposure visit etc.         | Oilseed promotion                              |
| 12. | ICAR-NRRI, Cuttack                     | Demonstration                                                      | Rice productivity                              |
| 13. | ICAR-IIAB, Ranchi                      | Training & Demonstration and resources supply                      | Biotech inputs                                 |

#### 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.     | KisanMela         | Dissemination of awareness and transfer of technology among the farmers | Increased farmer knowledge and adoption of modern agricultural practices and technologies |
| 2.     | World Soil Day    | Dissemination of awareness about soil health among the farmers          | Enhanced awareness on importance of soil health and sustainable land management           |
| 3.     | Training programs | Dissemination of awareness about soil health among the farmers          | Improved farmer capacity in soil management and nutrient use efficiency                   |
| 4.     | Exposure visits   | Dissemination of awareness about soil health among the farmers          | Practical understanding of best practices in soil health and farm-level implementation    |

#### 5. Utilization of Hostel facilities

| S. No. | Programme                                                                | No. of days |
|--------|--------------------------------------------------------------------------|-------------|
| 1      | Training on commercial, dairy, poultry & goatery for army personnel      | 120         |
| 2      | Training on bio-resource management, bee keeping and mushroom production | 120         |
| 3      | 25 Days' Gardener training                                               | 25          |
| 4      | Training on natural farming for ext. func.                               | 5           |
| 5      | IFS training for practicing farmers                                      | 10          |
| 6      | training on commercial mushroom production                               | 5           |
| 7      | training on commercial poultry farming                                   | 5           |

|              |                                                                    |            |
|--------------|--------------------------------------------------------------------|------------|
| 8            | training on commercial bee keeping                                 | 5          |
| 9            | training on commercial bee keeping                                 | 5          |
| 10           | training on natural farming for rural youth                        | 5          |
| 11           | 15 days INM training for ext. func.                                | 15         |
| 12           | Training on commercial mushroom production for Rural youth         | 5          |
| 13           | Training on honey production for rural youth                       | 5          |
| 14           | Training on food processing (turmeric) for rural youth             | 5          |
| 15           | Training on seed production processing and storage for rural youth | 5          |
| 16           | Training on natural farming for rural youth                        | 5          |
| 17           | Training on care and management of goat for rural youth            | 5          |
| 18           | Training of rural youth on use of agricultural implements          | 5          |
| <b>Total</b> |                                                                    | <b>355</b> |

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

| <b>S.No.</b> | <b>Name of Project</b>                                                                                                             | <b>Financial Support</b>            |
|--------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1            | Empowering tribal Communities with Climate Resilient Technologies: A Pathway to Sustainable Development in tribal areas” under TSP | ICAR-IIAB, Ranchi                   |
| 2            | ARYA ( Attracting and retaining youth in Agriculture)                                                                              | ICAR- ATARI, Patna                  |
| 3            | Cluster Front Line Demonstration                                                                                                   | ICAR- ATARI, Patna                  |
| 4            | Augmenting mustard production in tribal areas                                                                                      | ICAR-DRMR, Bharatpur                |
| 5            | Establishment of bee board project                                                                                                 | NBB, New Delhi                      |
| 6            | Promotion of fodder crop                                                                                                           | Regional fodder station, Kalyani    |
|              |                                                                                                                                    | IIVR, Varanasi, UP                  |
| 7            | Development Millet Based Value-Added Product By Strengthening the Formed SHGs & Food processing at KVK level                       | ICAR-IIMR through ICAR-ATARI, Patna |

## Training Programme

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

| Date               | Clientele | 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     | -                                 | -                | 0                      | 0   | 0   | 0               | 0 | 0  | 0        | -                  |
| Horticulture       |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
| 20.9.25            | PF/FW     | Scientific onion cultivation      |                  | 10                     | 3   | 13  | 5               | 2 | 7  | 20       | Sept., 25          |
| Livestock prod.    |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
|                    | PF/FW     | -                                 | -                | 0                      | 0   | 0   | 0               | 0 | 0  | 0        | -                  |
| Agril. Engg.       |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
| -                  | -         | -                                 | -                | -                      | -   | -   | -               | - | -  | -        | -                  |
| Home c.            |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
| -                  | -         | -                                 | -                | -                      | -   | -   | -               | - | -  | -        | -                  |
| Plan protection    |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
| 10.9.25            | PF/FW     | Disease Management in chilly      | 1                | 8                      | 0   | 8   | 10              | 2 | 12 | 20       | Sept. 25           |
| Fisheries          |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
|                    | PF/FW     | -                                 | -                | 0                      | 0   | 0   | 0               | 0 | 0  | 0        | -                  |
| Soil Health        |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
|                    | PF/FW     | -                                 | -                | 0                      | 0   | 0   | 0               | 0 | 0  | 0        | -                  |
| Seed production    |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
| 15.9.25            | PF/FW     | Seed Production and Certification | 1                | 8                      | 0   | 8   | 10              | 2 | 12 | 20       | Sept. 25           |
| IFS                |           |                                   |                  |                        |     |     |                 |   |    |          |                    |
| 15.4.25 to 15.2.26 | PF/FW     | Lac/Goat based IFS                | 1                | 100                    | 400 | 500 | 0               | 0 | 0  | 500      | Apr. 25 to Feb. 26 |
|                    |           | Total                             |                  | 126                    | 403 | 529 | 15              | 6 | 31 | 560      |                    |

## i) Farmers &amp; Farm women (Off Campus)

| Date            | Clientele | Title of the training programme                                           | Duration in days | No. of participants |   |   | Number of SC/ST |   |    | G.    | Month of training |
|-----------------|-----------|---------------------------------------------------------------------------|------------------|---------------------|---|---|-----------------|---|----|-------|-------------------|
|                 |           |                                                                           |                  | M                   | F | T | M               | F | T  | Total |                   |
| Crop Production |           |                                                                           |                  |                     |   |   |                 |   |    |       |                   |
| 28.6.25         | PF/FW     | Paddy and pulse seed production                                           | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | June 25           |
| 18.10.25        | PF/FW     | Improved varieties of wheat & gram and their seed production              | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Oct. 25           |
| 11.11.25        | PF/FW     | Seed priming in onion seed                                                | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Nov. 25           |
| 19.12.25        | PF/FW     | Processing and Storage of Paddy.                                          | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Dec. 25           |
| 5.7.25          | PF/FW     | Dapog method of nursery raising in paddy                                  | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Jul. 25           |
| 22.7.25         | PF/FW     | Organic method of paddy cultivation                                       | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Jul. 25           |
| 7.8.25          | PF/FW     | Nutrient management in paddy                                              | 1                | 0                   | 0 | 0 | 22              | 8 | 30 | 30    | Aug. 25           |
| 20.11.25        | PF/FW     | Fertilizer management in all Rabi crop (Wheat).                           | 1                | 0                   | 0 | 0 | 22              | 8 | 30 | 30    | Nov. 25           |
| 10.5.25         | PF/FW     | Package & practices of pigeon pea                                         | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | May 25            |
| 12.6.25         | PF/FW     | Rice, Maize, and Millet production Technology                             | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Jun. 26           |
| 16.7.25         | PF/FW     | Kharif pulses Pigeon pea, Green Gram, & Black Gram, production technology | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Jul. 25           |
| 23.7.25         | PF/FW     | Kharif Oilseeds Nizer&sesamum production technology                       | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Jul. 25           |
| 14.8.25         | PF/FW     | Crop diversification a strategies for profitable agriculture              | 1                | 5                   | 2 | 7 | 17              | 6 | 23 | 30    | Aug. 25           |

|          |       |                                                                    |   |    |    |     |     |     |     |     |          |
|----------|-------|--------------------------------------------------------------------|---|----|----|-----|-----|-----|-----|-----|----------|
| 17.8.25  | PF/FW | Weed management in Kharif crop                                     | 1 | 5  | 2  | 7   | 17  | 6   | 23  | 30  | Aug. 25  |
| 21.8.25  | PF/FW | Better cropping system for sustainable income                      | 1 | 5  | 2  | 7   | 17  | 6   | 23  | 30  | Aug. 25  |
| 18.9.25  | PF/FW | Integrated nutrient management in Kharif crop                      | 1 | 5  | 2  | 7   | 17  | 6   | 23  | 30  | Sept. 25 |
| 23.10.25 | PF/FW | Pulses production technology for rabi crop (Gram, Lentil & pea)    | 1 | 5  | 2  | 7   | 17  | 6   | 23  | 30  | Oct. 25  |
| 16.10.25 | PF/FW | Oilseeds production technology for rabi crop (Mustard & Lin seed ) | 1 | 5  | 2  | 7   | 17  | 6   | 23  | 30  | Oct. 25  |
| 20.11.25 | PF/FW | Integrated Nutrient management in Rabi crop.                       | 1 | 5  | 2  | 7   | 17  | 6   | 23  | 30  | Nov. 25  |
| 13.11.25 | PF/FW | Wheat, Barley production technology                                | 1 | 5  | 2  | 7   | 17  | 6   | 23  | 30  | Nov. 25  |
|          |       |                                                                    |   | 90 | 36 | 126 | 316 | 112 | 428 | 540 |          |

| <b>Horticulture</b> |       |                                                                   |   |    |    |     |     |    |     |     |          |
|---------------------|-------|-------------------------------------------------------------------|---|----|----|-----|-----|----|-----|-----|----------|
| 5.6.25              | PF/FW | Package & practices of tuber crops                                | 1 | 6  | 2  | 8   | 12  | 5  | 17  | 35  | June 25  |
| 17.6.25             | PF/FW | Cultivation of Kharif Onion & Potato                              | 1 | 5  | 2  | 7   | 14  | 4  | 18  | 25  | June 25  |
| 9.7.25              | PF/FW | Organic vegetables cultivation                                    | 1 | 17 | 6  | 23  | 5   | 2  | 7   | 30  | July 25  |
| 12.9.25             | PF/FW | Vegetable Nursery Production for Rabi Crops                       | 1 | 17 | 6  | 23  | 5   | 2  | 7   | 30  | Sept. 25 |
| 15.10.25            | PF/FW | Cultivation of Broccoli                                           | 1 | 5  | 2  | 7   | 14  | 4  | 18  | 25  | Oct. 25  |
| 22.11.25            | PF/FW | Vegetable cultivation for Rabi season                             | 1 | 5  | 2  | 7   | 14  | 4  | 18  | 25  | Nov. 25  |
| 12.12.25            | PF/FW | Importance of grading and standardization of tomato and potato    | 1 | 5  | 2  | 7   | 14  | 4  | 18  | 25  | Dec. 25  |
| 12.8.25             | PF/FW | Cultivation of disease tolerant varieties in tomato during Kharif | 1 | 5  | 2  | 7   | 17  | 6  | 23  | 30  | Aug. 25  |
| 27.8.25             | PF/FW | Early varieties in potato and its cultivation                     | 1 | 5  | 2  | 7   | 17  | 6  | 23  | 30  | Aug. 25  |
| 6.9.25              | PF/FW | Early varieties of pea and its cultivation                        | 1 | 15 | 5  | 7   | 21  | 13 | 34  | 41  | Sept. 25 |
| 10.9.25             | PF/FW | Management of boron application in cauliflower                    | 1 | 1  | 9  | 10  | 16  | 4  | 20  | 30  | Sept. 25 |
|                     |       |                                                                   |   | 86 | 40 | 113 | 149 | 54 | 203 | 326 |          |



|                               |       |                                                                    |   |    |    |    |     |     |     |     |          |
|-------------------------------|-------|--------------------------------------------------------------------|---|----|----|----|-----|-----|-----|-----|----------|
| <b>Live Stock Production.</b> |       |                                                                    |   |    |    |    |     |     |     |     |          |
| 9.5.25                        | PF/FW | Role of PPR vaccine in goats                                       | 1 | 0  | 0  | 0  | 22  | 8   | 3   | 3   | Jun. 25  |
| 12.6.25                       | PF/FW | Duck farming/ Fish farming                                         | 1 | 0  | 0  | 0  | 22  | 8   | 30  | 30  | June 25  |
| 14.6.25                       | PF/FW | Hey and silage making                                              | 1 | 1  | 9  | 10 | 16  | 4   | 20  | 30  | June 25  |
| 14.8.25                       | PF/FW | Clean milk production                                              | 1 | 1  | 9  | 10 | 16  | 4   | 20  | 30  | Aug. 25  |
| 18.9.25                       | PF/FW | Pig farming & management                                           | 1 | 5  | 0  | 5  | 23  | 4   | 27  | 32  | Sept. 25 |
| 21.10.25                      | PF/FW | Management of dairy animal                                         | 1 | 0  | 0  | 0  | 22  | 8   | 30  | 30  | Oct. 25  |
| 18 – 30.11.25                 | PF/FW | Weather based disease management programme (Summer, Winter, Rainy) | 1 | 25 | 6  | 31 | 50  | 4   | 54  | 85  | Nov. 25  |
| 23.12.25                      | PF/FW | Prevention and treatment of ecto-parasite                          | 1 | 5  | 0  | 6  | 23  | 4   | 27  | 33  | Dec. 25  |
|                               |       |                                                                    |   | 37 | 24 | 56 | 197 | 44  | 211 | 273 |          |
| <b>Agril. Engg.</b>           |       |                                                                    |   |    |    |    |     |     |     |     |          |
| -                             | PF/FW | -                                                                  | - | -  | -  | -  | -   | -   | -   | -   | -        |
| <b>Home Sc.</b>               |       |                                                                    |   |    |    |    |     |     |     |     |          |
| 5.6.25                        | PF/FW | Balance Diet                                                       | 1 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | June 25  |
| 9.7.25                        | PF/FW | Processing of Mango                                                | 1 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | Jul. 25  |
| 12.8.25                       | PF/FW | Processing of Chenopodium Album                                    | 1 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | Aug.25   |
| 16.10.25                      | PF/FW | Use drudgery reducing implements for drying products               | 1 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | Oct.25   |
| 29.10.25                      | PF/FW | Processing of Cauliflower                                          | 2 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | Oct.25   |
| 25.12.25                      | PF/FW | Importance of Infancy period                                       | 1 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | Dec.25   |
| 12.4.25                       | PF/FW | Stain removal technique                                            | 1 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | Apr. 25  |
| 7.5.25                        | PF/FW | Kitchen Gardening                                                  | 1 | 0  | 5  | 5  | 0   | 25  | 25  | 30  | May 25   |
|                               |       |                                                                    |   | 0  | 40 | 40 | 0   | 200 | 200 | 240 |          |

|                         |       |                                                                                |   |    |    |    |     |    |     |     |          |
|-------------------------|-------|--------------------------------------------------------------------------------|---|----|----|----|-----|----|-----|-----|----------|
| <b>Plant Protection</b> |       |                                                                                |   |    |    |    |     |    |     |     |          |
| 26.6.25                 | PF/FW | Integrated disease and pest management of the major rainy vegetables           | 1 | 3  | 4  | 7  | 13  | 6  | 19  | 26  | June 25  |
| 12.7.25                 | PF/FW | Methods of soil treatments for Kharif crops                                    | 1 | 3  | 4  | 7  | 12  | 6  | 18  | 25  | July 25  |
| 22.7.25                 | PF/FW | Scientific Bee Keeping                                                         | 1 | 3  | 4  | 7  | 15  | 6  | 21  | 28  | July 25  |
| 23.8.25                 | PF/FW | Management of insect pest and disease in Rice & Maize                          | 1 | 3  | 4  | 7  | 12  | 6  | 18  | 25  | Aug. 25  |
| 16.9.25                 | PF/FW | Management of insect pest and disease in major kharif pulses crop (urd, arhar) | 1 | 16 | 4  | 20 | 20  | 6  | 26  | 46  | Sept. 25 |
| 22.9.25                 | PF/FW | Scientific lac cultivation                                                     | 1 | 3  | 4  | 7  | 15  | 6  | 21  | 28  | Sept. 25 |
| 12.10.25                | PF/FW | Techniques of bio pesticides production and their uses                         | 1 | 4  | 4  | 8  | 12  | 6  | 18  | 26  | Oct. 25  |
| 28.11.25                | PF/FW | Management of insect pest & disease in rabi vegetables                         | 1 | 3  | 4  | 7  | 12  | 6  | 18  | 25  | Nov. 25  |
| 13.12.25                | PF/FW | Management of insect pest in rabipulses crop (pea, gram, lentil)               | 1 | 3  | 4  | 7  | 12  | 6  | 18  | 25  | Dec. 25  |
| 24.12.25                | PF/FW | Management of disease in rabi pulses crop (pea, gram, lentil)                  | 1 | 3  | 4  | 7  | 12  | 6  | 18  | 25  | Dec. 25  |
| 12.6.25                 | PF/FW | Different seed treatment in paddy                                              | 1 | 5  | 2  | 7  | 17  | 6  | 23  | 30  | June 25  |
|                         |       |                                                                                |   | 49 | 42 | 91 | 152 | 66 | 218 | 263 |          |
| <b>Fisheries</b>        |       |                                                                                |   |    |    |    |     |    |     |     |          |
|                         | PF/FW | -                                                                              | - | -  | -  | -  | -   | -  | -   | -   | -        |
| <b>Soil health</b>      |       |                                                                                |   |    |    |    |     |    |     |     |          |
| 14.6.25                 | PF/FW | Low cost organic inputs for reducing the input cost                            | 1 | 5  | 2  | 7  | 17  | 6  | 23  | 30  | June 25  |
| 11.10.25                | PF/FW | Use of rhizobium culture/ Azotobacter/                                         | 1 | 5  | 0  | 5  | 21  | 4  | 25  | 30  | Oct. 25  |

|  |  |     |  |    |   |    |    |    |    |    |  |  |
|--|--|-----|--|----|---|----|----|----|----|----|--|--|
|  |  | PSB |  |    |   |    |    |    |    |    |  |  |
|  |  |     |  | 10 | 2 | 12 | 38 | 10 | 48 | 60 |  |  |

## ii) Vocational training programmes for Rural Youth

| Crop / Enterprise            | Identified Thrust Area            | Training title*                         | Duration (days) | No. of Participants (Other) |            |             | SC/ST participants |            |             | G.Total     | Month of training |
|------------------------------|-----------------------------------|-----------------------------------------|-----------------|-----------------------------|------------|-------------|--------------------|------------|-------------|-------------|-------------------|
|                              |                                   |                                         |                 | M                           | F          | T           | M                  | F          | T           |             |                   |
| Mushroom                     | Yield improvement in mushroom     | Mushroom cultivation                    | 5               | 06                          | 04         | 10          | 32                 | 8          | 40          | 50          | Jun.& Aug.        |
| Beekeeping                   | Commercial Honey production       | Honey Production                        | 5               | 10                          | 11         | 21          | 67                 | 11         | 78          | 99          | Sept.             |
| Value addition               | Value addition of turmeric        | Food Processing (Turmeric)              | 5               | 0                           | 10         | 10          | 0                  | 10         | 10          | 20          | Aug.              |
| Seed Production & Processing | Seed Production & Processing      | Seed production, Processing and storage | 5               | 06                          | 04         | 40          | 32                 | 8          | 40          | 80          | Nov. & Feb.       |
| Natural Farming              | Soil health management            | Natural farming                         | 5               | 12                          | 9          | 21          | 47                 | 19         | 66          | 87          | May to Oct.       |
| Goatery                      | Commercial goatery                | Care and Management of goat             | 5               | 06                          | 04         | 10          | 32                 | 8          | 40          | 50          | Oct.              |
| Agri. Eng.                   | Use and maintenance of agri-tools | Use of agricultural implements          | 5               | 5                           | 5          | 10          | 30                 | 5          | 35          | 45          | 10-25 Feb.        |
|                              | <b>Total</b>                      |                                         |                 | 45                          | 47         | 122         | 240                | 69         | 309         | 431         |                   |
|                              | <b>Grand Total</b>                |                                         |                 | <b>443</b>                  | <b>634</b> | <b>1089</b> | <b>1107</b>        | <b>561</b> | <b>1648</b> | <b>2693</b> |                   |

## iii) Training programme for extension functionaries

| Date<br>(Tentative) | Clientele                                              | Title of the training programme                     | Duration<br>in days | No. of<br>participants<br>(Other) |    |    | Number of<br>SC/ST |    |     | G. Total | Month of<br>training |
|---------------------|--------------------------------------------------------|-----------------------------------------------------|---------------------|-----------------------------------|----|----|--------------------|----|-----|----------|----------------------|
|                     |                                                        |                                                     |                     | M                                 | F  | T  | M                  | F  | T   |          |                      |
| On Campus           |                                                        |                                                     |                     |                                   |    |    |                    |    |     |          |                      |
| 10.12.25            | Extension Workers and<br>members of line<br>department | Package and Practices of<br>Berseem Crop            | 1                   | 6                                 | 1  | 7  | 23                 | 1  | 24  | 31       | Dec. 25              |
| 16.12.25            | Extension Workers and<br>members of line<br>department | Weed management n Green<br>gram                     | 1                   | 12                                | 2  | 14 | 46                 | 12 | 58  | 72       | Dec. 25              |
| 11.7.25             | Strengthening of input dealers                         | Integrated Nutrient Management for<br>Input Dealers | 15                  | 10                                | 10 | 20 | 20                 | 10 | 30  | 50       | Jul. 25              |
| Off Campus          |                                                        |                                                     |                     |                                   |    |    |                    |    |     |          |                      |
| 22.8.25             | Extension Workers and<br>members of line department    | IPM in Brinjal Crop                                 | 1                   | 25                                | 9  | 34 | 19                 | 6  | 25  | 59       | Aug. 25              |
| 1.11.<br>&10.12.25  | Extension Workers and<br>members of line department    | Disease management in Goat                          | 1                   | 12                                | 2  | 14 | 46                 | 12 | 58  | 72       | Aug. 25              |
|                     |                                                        |                                                     | 4                   | 55                                | 14 | 89 | 134                | 31 | 165 | 254      |                      |

## iv) Sponsored programme

| Discipline                      | Sponsoring agency                                             | Clientele             | Title of the training programme                                                                          | No. of course | No. of participants (other) |    |    | Number of SC/ST |    |    | G. Total |
|---------------------------------|---------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------|---------------|-----------------------------|----|----|-----------------|----|----|----------|
|                                 |                                                               |                       |                                                                                                          |               | M                           | F  | T  | M               | F  | T  |          |
| a) Sponsored training programme |                                                               |                       |                                                                                                          |               |                             |    |    |                 |    |    |          |
| Agriculture and Allied          | Directorate General of Resettlement, Ministry of Defense, GOI | Indian Army Personnel | 1. Commercial Dairy, Poultry, Goatery<br>2. Bio-resource management, Bee Keeping and Mushroom production | 4             | 40                          | 32 | 72 | 28              | 20 | 48 | 120      |
| Horticulture                    | District Horticulture Office.                                 | Rural Youth           | 25 Days' Gardener Training                                                                               | 1             | 5                           | 5  | 10 | 10              | 5  | 15 | 25       |

|                     |                                      |            |                                     |           |           |           |            |           |           |            |            |
|---------------------|--------------------------------------|------------|-------------------------------------|-----------|-----------|-----------|------------|-----------|-----------|------------|------------|
|                     | Ranchi                               |            |                                     |           |           |           |            |           |           |            |            |
| Natural Farming     | District Horticulture Office, Ranchi | Ext. Func. | 5 Days' Training on Natural Farming | 1         | 0         | 4         | 4          | 0         | 26        | 26         | 30         |
| IFS                 | ATMA                                 | PF         | Integrated Farming System           | 2         | 15        | 5         | 20         | 20        | 10        | 30         | 50         |
| Mushroom Production | Self sponsored                       | RY         | Commercial Mushroom Production      | 1         | 5         | 5         | 10         | 10        | 5         | 15         | 25         |
| Backyard Poultry    | Self sponsored                       | RY         | Commercial poultry farming          | 1         | 5         | 5         | 10         | 10        | 5         | 15         | 25         |
| Beekeeping          | NGO                                  | RY         | Commercial Bee Keeping              | 1         | 5         | 5         | 10         | 10        | 5         | 15         | 25         |
| Natural Farming     | NGO                                  | RY/PF      | Natural Farming                     | 1         | 5         | 5         | 10         | 10        | 5         | 15         | 25         |
|                     |                                      |            | <b>Total</b>                        | <b>12</b> | <b>80</b> | <b>66</b> | <b>146</b> | <b>98</b> | <b>81</b> | <b>179</b> | <b>325</b> |

|                                        |                   |   |                                                                              |          |           |          |           |           |           |           |           |
|----------------------------------------|-------------------|---|------------------------------------------------------------------------------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|
| <b>b) Sponsored research programme</b> |                   |   |                                                                              |          |           |          |           |           |           |           |           |
| Crop production                        | IFFCO             | - | Farmer-Scientist interaction on application of nano-urea in rice and mustard | 1        | 10        | 5        | 15        | 18        | 17        | 35        | 50        |
| Plant breeding                         | ICAR ATARI, Patna | - | Conservation and commercialization of indigenous rice variety                | 2        | -         | -        | -         | -         | -         | -         | -         |
|                                        |                   |   | <b>Total</b>                                                                 | <b>3</b> | <b>10</b> | <b>5</b> | <b>15</b> | <b>18</b> | <b>17</b> | <b>35</b> | <b>50</b> |

|                                  |   |   |              |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|--------------|---|---|---|---|---|---|---|---|
| <b>c) Any special programmes</b> |   |   |              |   |   |   |   |   |   |   |   |
| -                                | - | - | -            | - | - | - | - | - | - | - | - |
| -                                | - | - | -            | - | - | - | - | - | - | - | - |
|                                  |   |   |              |   |   |   |   |   |   |   |   |
|                                  |   |   | <b>Total</b> |   |   |   |   |   |   |   |   |

**Signature of Senior Scientist & Head  
Divyayan Krishi Vigyan Kendra, Ranchi**