

# ANNUAL REPORT 2010 – 11

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

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

| Address                                                         | Telephone                               |     | E mail                    |
|-----------------------------------------------------------------|-----------------------------------------|-----|---------------------------|
| Krishi Vigyan Kendra, Dhanbad<br>Baliapur farm, Dhanbad-828201. | Office<br>0326-2901467<br>☎ 09431711339 | FAX | kvkdhanbad@rediffmail.com |

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

| Address                                              | Telephone    |              | E mail |
|------------------------------------------------------|--------------|--------------|--------|
|                                                      | Office       | FAX          |        |
| Birsa Agricultural University, Ranchi,<br>Jharkhand. | 0651-2450849 | 0651-2450525 | -      |

### **1.3. Name of the Programme Coordinator with phone & mobile No**

| Name            | Telephone / Contact |             |       |
|-----------------|---------------------|-------------|-------|
|                 | Residence           | Mobile      | Email |
| Dr. Ashok Kumar | 09431711339         | 09431711339 | -     |

### **1.4. Year of sanction: 2005**

### **1.5. Staff Position (as on 31<sup>st</sup> March 2010)**

| Sl. No. | Sanctioned post             | Name of the incumbent     | Designation              | Discipline       | Pay Scale with present basic | Date of joining in KVK, Dhanbad | Permanent /Temporary | Category (SC/ST/ OBC/ Others) |
|---------|-----------------------------|---------------------------|--------------------------|------------------|------------------------------|---------------------------------|----------------------|-------------------------------|
| 1.      | Programme Coordinator       | Dr. Ashok Kumar           | P.C                      | Agronomy         | 12000-18300<br>14100         | 01.12.07                        | P                    | Gen                           |
| 2.      | Subject Matter Specialist   | Dr. Ajay Kumar Dwivedi    | SMS                      | Horticulture     | 8000-13500<br>10475          | 02.09.08                        | P                    | Gen                           |
| 3.      | Subject Matter Specialist   | Smt. Anjali Mishra        | SMS                      | Home Science     | 8000-13500<br>9375           | 16.01.07                        | P                    | Gen                           |
| 4.      | Subject Matter Specialist   | Sri Rajeev Kumar          | SMS                      | Agril. Engg.     | 8000-13500<br>9375           | 11.12.07                        | P                    | Gen                           |
| 5.      | Subject Matter Specialist   | Dr. Adarsh Kr. Srivastava | SMS                      | Agril. Extn.     | 8000-13500<br>10475          | 04.04.05                        | P                    | Gen                           |
| 6.      | Subject Matter Specialist   | Sri Navin Kumar           | SMS                      | Plant Protection | 8000-13500<br>9375           | 11.12.07                        | P                    | Gen                           |
| 7.      | Subject Matter Specialist   | Mrs. Elisma Xaxa          | SMS                      | Plant Breeding   | 8000-13500<br>8825           | 10.01.08                        | P                    | ST                            |
| 8.      | Programme Assistant         | Sri R. K. Srivastava      | Programme Assistant      |                  | 5500-9000<br>6375            | 01.07.09                        | P                    | Gen                           |
| 9.      | Programme Assistant         | Sri Sunil Kr. Pandey      | Tech. Asstt. (A.V. Aids) |                  | 4000-6000<br>4500            | 06.04.05                        | P                    | Gen                           |
| 10.     | Computer Programmer         | Sri Mithilesh Kumar       | Computer Assistant       |                  | 5000-8000<br>5750            | 18.07.05                        | P                    | Gen                           |
| 11.     | Farm Manager                | Sri Sanjay Kumar          | Farm Manager             |                  | 5500-9000<br>6375            | 01.03.05                        | P                    | Gen                           |
| 12.     | Accountant / Superintendent | Contractual               | -                        | -                | Consolidated                 | -                               | T                    | -                             |
| 13.     | Stenographer                | -do-                      | -                        | -                | -do-                         | -                               | T                    | -                             |
| 14.     | Driver                      | -do-                      | -                        | -                | -do-                         | -                               | T                    | -                             |
| 15.     | Driver                      | -do-                      | -                        | -                | -do-                         | -                               | T                    | -                             |
| 16.     | Supporting staff            | -do-                      | -                        | -                | -do-                         | -                               | T                    | -                             |
| 17.     | Supporting staff            | -do-                      | -                        | -                | -do-                         | -                               | T                    | -                             |

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

| S. No.       | Item                                        | Area (ha)   |
|--------------|---------------------------------------------|-------------|
| 1.           | Under Buildings                             | 1.0         |
| 2.           | Under Demonstration Units                   | 1.0         |
| 3.           | Under Crops                                 | 4.5         |
| 4.           | Orchard/Agro-forestry                       | 1           |
| 5.           | Others (Road, Lawn, pond, Green House etc.) | 2.5         |
| <b>Total</b> |                                             | <b>10.0</b> |

**1.7. Infrastructural Development:**

**A) Buildings**

| S. No. | Name of building             | Source of funding | Stage             |                    |                   |               |                    |                                        |
|--------|------------------------------|-------------------|-------------------|--------------------|-------------------|---------------|--------------------|----------------------------------------|
|        |                              |                   | Complete          |                    |                   | Incomplete    |                    |                                        |
|        |                              |                   | Completion Date   | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction                 |
| 1.     | Administrative Building      | ICAR              | Before 31.03.2007 |                    |                   |               |                    |                                        |
| 2.     | Farmers Hostel               | ICAR              | -do-              |                    |                   |               |                    |                                        |
| 3.     | Staff Quarters (6)           | ICAR              | -do-              |                    |                   |               |                    |                                        |
| 4.     | Demonstration Units (2)      | ICAR              | Before 30.11.2007 |                    |                   |               |                    |                                        |
| 5.     | Fencing                      | ICAR              | Incomplete        |                    |                   |               |                    | Incomplete (completed only front side) |
| 6.     | Rain Water harvesting system | ICAR              | -                 |                    |                   |               |                    | Incomplete                             |
| 7.     | Threshing floor              | B.A.U             | Before 31.03.2007 |                    |                   |               |                    |                                        |
| 8.     | Farm go down                 |                   |                   |                    |                   |               |                    |                                        |

**B) Vehicles**

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|-----------------|------------------|------------|----------------|----------------|
| Tractor         | 2006             | --         | 5920 hours     | Working        |
| Tata Sumo       | 2006             | 500000     | 701952 km.     | Working        |

**C) Equipments & AV aids**

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|-----------------------|------------------|------------|----------------|
| Desktop Computer set  | 2006             | --         | Working        |
| Xerox                 | 2007             | --         | Not working    |
| Digital Camera        | 2007             | 14512.50   | Working        |

### 1.8. A). Details SAC meeting\* conducted in the year

| Sl.No. | Date       | Number of Participants | Salient Recommendations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Action taken |
|--------|------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1.     | 17.02.2009 | 38                     | <ol style="list-style-type: none"> <li>List of Trainees should be circulated to NABARD &amp; LDM after every entrepreneur development trainings</li> <li>Representative of Commercial Banks should be invited in every entrepreneur development trainings.</li> <li>Name of KVK should be properly mentioned on Tag and Seed bags of KVK Seed Villages seeds.</li> <li>Medicinal and aromatic plants, which are known to farmers and not grazed by animals, should be promoted.</li> <li>SRI method of paddy cultivation should be included in KVK programmes.</li> <li>Local practiced models of rain water harvesting should be tested and further refinement should be done for large scale adoption in collaboration with Banks &amp; NGOs.</li> <li>Ex-Trainees meet under both categories – farmers &amp; rural youth should be organized.</li> <li>Outcome of training programmes should be documented.</li> <li>Performance evaluation should be started under long duration training programmes.</li> <li>An insect (JOK like insect) prevalent in cauliflower under Jharia block should be identified and control measures should be suggested.</li> <li>Two OFTs conducted by every scientist in a year should be presented with action taken visuals and conspicuous result as well as feedbacks.</li> <li>Liming in acidic soils should be promoted through KVK programmes.</li> <li>Large scale demonstration on lime application in acidic soils should be conducted.</li> <li>Low cost fertilizers and plant protection measures should be promoted through trainings &amp; FLDs.</li> <li>Block agriculture officers should be invited in every Block level Bankers meeting.</li> <li>The sickle refined in KVK Bokaro should must be tested in KVK Dhanbad and if found suitable should be fabricated in KVK, Dhanbad.</li> <li>A community radio in KVK should be established from ATMA, Dhanbad.</li> <li>As there are several demonstration and training units at KVK and more works assigned, the budget of KVK should be increased.</li> </ol> |              |

*\* Attach a copy of SAC proceedings along with list of participants*

## **2. DETAILS OF DISTRICT**

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

| S. No | Farming system/enterprise                   |
|-------|---------------------------------------------|
| 1.    | Agriculture + Livestock                     |
| 2.    | Agriculture + Livestock + Poultry           |
| 3.    | Agriculture + Horticulture                  |
| 4.    | Agriculture + Horticulture + Sericulture    |
| 5.    | Agriculture + Fisheries + Duckery + Poultry |

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

| S. No | Agro-climatic Zone        | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.    | Zone – 7<br>Sub zone – IV | The region is characterised by hot climate undulating plateau, hills & mountains non-existence of perennial rivers, initially high forest cover which is depleting fast due to mineral & industrial exploitation and encroachment, pockets with chronic drought condition, erratic rainfall, low ground water table, high soil erosion, generally inefficient agricultural, dairy & fisheries activities except in command areas of major irrigation project, raising agricultural unemployment and acute rural poverty. |

| S. No | Agro ecological situation                  | Characteristics                                                                                                                                             |
|-------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.    | Sandy loan, rainfed, undulating            | Soils are light textured having undulating topography & crops are grown under rainfed situation. No irrigation facility is available.                       |
| 2.    | Sandy loam, undulating, irrigated.         | Soils are light textured having undulating topography with irrigation facility. The sources of irrigation are mainly wells and tanks.                       |
| 3.    | Clay soil, rainfed.                        | Soils are heavy textured, rich in organic matter and fertile. Crops are grown under rainfed situation. Only life saving irrigations is available.           |
| 4.    | Heavily soil, undulating, rainfed / forest | Soils are heavy textured having undulating topography with no irrigation facility. Most of lands are under forest. Crops are grown under rainfed situation. |

### **2.3 Soil type/s**

| S. No | Soil type        | Characteristics                                                                                                                                                                             | Area in ha |
|-------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1.    | Stony & gravelly | Found near the foot hills. Thickness of soil is very less. Used only for recreation purpose and picnic spots.                                                                               |            |
| 2.    | Sandy soil       | Locally known as balu found near the river soils. They are coarse textured having less water holding capacity & deficient in plant nutrients.                                               |            |
| 3.    | Loamy soil       | Found near the hills. They are medium textured soil having low water holding capacity. These soils are under cultivation of various types of crops.                                         |            |
| 4.    | Clay soil        | Found near the tanks and rivers. They are heavy textured soil having high water holding capacity. These soils are fertile & very productive. Various type of crop and vegetables are grown. |            |

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

| S. No | Crop          | Area (ha) | Production (Qtl) | Productivity (Qtl /ha) |
|-------|---------------|-----------|------------------|------------------------|
| 1.    | Summer Rice   | 148       |                  | 9.3                    |
| 2.    | Kharif Rice   | 36051     |                  | 10.7                   |
| 3.    | Maize         | 1590      |                  | 8.4                    |
| 4.    | Wheat         | 800       |                  | 19.9                   |
| 5.    | Finger millet | 158       |                  | 7.2                    |
| 6.    | Chick pea     | 47        |                  | 9.4                    |
| 7.    | Potato        | 99        |                  | 93.7                   |
| 8.    | Onion         | 14        |                  | 88.6                   |

**Source:** - FAI Eastern Region, Kolkata (2002-03), Fertilizer and Agricultural Statistics Eastern Region.

#### 2.5. Weather data

| Month          | Rainfall (mm) | Temperature ° C |         | Relative Humidity(%) |        |
|----------------|---------------|-----------------|---------|----------------------|--------|
|                |               | Maximum         | Minimum | 7.00AM               | 2.00PM |
| April 2010     |               |                 |         |                      |        |
| May 2010       |               |                 |         |                      |        |
| June 2010      |               |                 |         |                      |        |
| July 2010      |               |                 |         |                      |        |
| August 2010    |               |                 |         |                      |        |
| September 2010 |               |                 |         |                      |        |
| October 2010   |               |                 |         |                      |        |
| November 2010  |               |                 |         |                      |        |
| December 2010  |               |                 |         |                      |        |
| January 2011   |               |                 |         |                      |        |
| February 2011  |               |                 |         |                      |        |
| March 2011     |               |                 |         |                      |        |

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

| Category          | Population | Production | Productivity |
|-------------------|------------|------------|--------------|
| <b>Cattle</b>     |            |            |              |
| <i>Crossbred</i>  | 24176      |            |              |
| <i>Indigenous</i> | 458804     |            |              |
| <b>Buffalo</b>    | 78806      |            |              |
| <b>Sheep</b>      |            |            |              |
| <i>Crossbred</i>  | 200        |            |              |
| <i>Indigenous</i> | 43166      |            |              |
| <b>Goats</b>      | 214396     |            |              |
| <b>Pigs</b>       | 214326     |            |              |

|                   |             |                   |                     |
|-------------------|-------------|-------------------|---------------------|
| <i>Crossbred</i>  | 2054        |                   |                     |
| <i>Indigenous</i> | 686137      |                   |                     |
| <b>Rabbits</b>    | 463         |                   |                     |
| <b>Poultry</b>    |             |                   |                     |
| Hens              |             |                   |                     |
| <i>Desi</i>       | 177167      |                   |                     |
| <i>Improved</i>   | 59932       |                   |                     |
| Ducks             | 14141       |                   |                     |
| Turkey and others | 411         |                   |                     |
| <b>Category</b>   | <b>Area</b> | <b>Production</b> | <b>Productivity</b> |
| Fish              |             |                   |                     |
| <i>Marine</i>     |             |                   |                     |
| <i>Inland</i>     |             |                   |                     |
| Prawn             |             |                   |                     |

## 2.7 Details of Operational area / Villages

| Sl. No. | Taluk   | Name of the block | Name of the village | Major crops & enterprises                                                                                                                                                                                                        | Major problem identified                                                                                                                                                                                                                                                              | Identified Thrust Areas                                                                                                                                                                                                                        |
|---------|---------|-------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Dhanbad | Baliapur          | Sindurpur           | <b>Kharif-</b> Rice, Ragi, Sesamum, Black gram, Red gram<br><b>Rabi-</b> Wheat, Mustard, Linseed, Gram, Lentil, Potato, Brinjal<br><b>Summer-</b> Moong, Ladyfinger, Bottle guard, Ridge guard.                                  | 1. Unavailability of quality seed.<br>2. Unavailability of quality insecticides.<br>3. Scarcity of irrigation water during Rabi & Summer.<br>4. Lack of knowledge about improved scientific cultivation.<br>5. High cultivation cost of paddy.<br>6. Damage of grains during storage. | 1. Improvement of soil and water conservation practices.<br>2. Improvement in yield of monocrop price.<br>3. Popularization of IPM measures for field and Horticultural crops.<br>4. Introduction of post harvest & value addition technology. |
| 2.      | Dhanbad | Baliapur          | Palani              | <b>Kharif-</b> Rice, Maize, Sesame, Black gram, Red gram, Vegetables.<br><b>Rabi-</b> Wheat, Mustard, Linseed, Gram, Lentil, Pea, Potato, Brinjal, Cauliflower, Cabbage.<br><b>Summer-</b> Sesame, Moong, Ladyfinger, Cucurbits. | 1. Unavailability of quality seed.<br>2. Unavailability of quality insecticides.<br>3. Scarcity of irrigation water during Rabi & Summer.<br>4. Lack of knowledge about improved scientific cultivation.<br>5. High cultivation cost of paddy.<br>6. Damage of grains during storage. | 1. Improvement of soil and water conservation practices.<br>2. Improvement in yield of monocrop price.<br>3. Popularization of IPM measures for field and Horticultural crops.<br>4. Introduction of post harvest & value addition technology. |

## 2.8 Priority thrust areas

| S. No | Thrust area                                                |
|-------|------------------------------------------------------------|
| 1.    | Improvement of soil and water conservation practices       |
| 2.    | Management of problematic soils.                           |
| 3.    | Popularization of integrated nutrient management practices |

|    |                                                                                              |
|----|----------------------------------------------------------------------------------------------|
| 4. | Improvement in yield of monocrop rice.                                                       |
| 5. | Diversification of traditional rice-based cropping system with appropriate commercialization |
| 6. | Breed Improvement of cattle, pig and goat.                                                   |
| 7. | Popularization of IPM measures for field and Horticultural crops.                            |
| 8. | Introduction of post harvest & value addition technology.                                    |
| 9. | Entrepreneurship development of SHG groups.                                                  |

### **3. TECHNICAL ACHIEVEMENTS**

#### **3.1. A. Abstract of interventions undertaken**

| Sl. 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.     | Improvement of soil and water conservation practices | All crops        | 1. Soil erosion<br>2. Low system productivity in rainfed situation              | -<br>Assessment of effective irrigation system in summer ladyfinger<br>- | 1. FLD on cover crop like groundnut-8 ha, gram-3 ha, lentil-2ha, Kulthi-5ha and water conservation crop like red gram 5 ha has been conducted.<br>2. Low irrigation water requiring crop like red gram-5ha, mustard -5ha, linseed -2ha, gram-3ha, lentil -2ha has been taken in FLD. | 1. Use of different tillage implements for checking soil erosion.<br>2. Irrigation management in wheat.<br>3. Rain water harvesting technology for short duration. | 1. Technique for increase water use efficiency.  | 1. Krishak Gosthi - 1<br>2. Krishak Helpline – 58<br>3. Extension literature – 2<br>4. Radio talk-1 | Seed & other input under FLD.            |
| 2.     | Management of problematic soils                      | All crops        | 1. Production problem in terms of productivity, sustainability, profitability.. | -                                                                        | -                                                                                                                                                                                                                                                                                    | 1. Use of lime in acid soils                                                                                                                                       | 1. Replication of problematic soils.             | 1. Krishak Gosthi – 1<br>2. Krishak helpline – 18                                                   | -                                        |

|    |                                                            |           |                                                                                                                        |                                                                                                                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |                                                                                                                               |                                                                         |
|----|------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 3. | Popularization of integrated nutrient management practices | All crops | 1. Low system productivity in rainfed situation.<br><br>2. Low yield of major crops.                                   | Integrated nutrient management in low land paddy.<br><br>Effect of fertilizer and biofertilizer on yield of summer moong. | -                                       | 1. Use of biofertilizer in paddy.<br>2. Package & practices of red gram.<br>3. Use of Rhizobium culture in red gram.<br>4. Integrated nutrient management in summer moong.<br>5. Technique of nitrogen management in transplanted paddy.<br>6. Use of Rhizobium in Kharif pulses.<br>7. Top dressing in wheat.<br>8. Sulphur management in Toria / Rai / Mustard.<br>9. Potash management in potato.<br>10. Fertilizer management in summer vegetables. | -                                                                         | 1. Extension literature-1<br>2. Krishak Gosthi- 1<br>3. Krishak helpline – 46<br>4. Newspaper coverage – 7<br>5. Radio talk-3 | -                                                                       |
| 4. | Improvement in yield of monocrop rice                      | Rice      | a. Low yield of rice<br>b. Low profitability in rice cultivation<br>c. Unavailability of quality seed in local market. | -                                                                                                                         | Hybrid rice Variety- Arise 6444 in 5 ha | 1. Improved technology of nursery raising for rice.<br>2. Production technique of hybrid rice.<br>3. Line transplanting of rice for better production.<br>4. Use of biofertilizer in paddy.<br>5. Seed production technology in paddy seed.<br>6. Integrated pest management in paddy.                                                                                                                                                                  | 1. Technology advances in production technology of scented & hybrid rice. | 1. Krishak Gosthi-1<br>2. Krishak helpline-37<br>3. Extension literature-2<br>4. Newspaper coverage-8<br>5. Radio talk-1      | Seed of hybrid rice, seed production and sale of improved rice variety. |

|    |                                                                                              |                     |                                                                                                                                                                                    |                                                                                                                                                            |                                                                                                                                                                                             |                                                                                                                                                                                                                                         |                                                                         |                                                                                                         |                             |
|----|----------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------|
| 5. | Diversification of traditional rice-based cropping system with appropriate commercialization | All crops           | 1. Low system productivity of rice based cropping system.<br>2. Risk of failure of rice crop is more due to excessing or scarce rainfall.<br>3. Low system profitability.          | -                                                                                                                                                          | 1. FLD on low irrigation water requiring crop like sesame, pigeon pea taken in upland situations.<br>2. High income providing crop like – groundnut taken to replace upland rice in Kharif. | 1. Package and practices of pigeon pea.<br>2. Integrated nutrient management in Kharif pulses.<br>3. Disease and pest management in Kharif maize.<br>4. Use of Rhizobium in Kharif pulses.                                              | 1. Cropping system approach.                                            | 1. Krishak Gosthi-1<br>2. Krishak helpline-17<br>3. Newspaper coverage -4                               | Seed & other input in FLDs. |
| 6. | Breed Improvement of cattle, pig and goat                                                    | Cattle, Pig & Goat. | 1. Low yield of milk, pork & goat meat.                                                                                                                                            | -                                                                                                                                                          | -                                                                                                                                                                                           | 1. Ration computation, maintenance of trace minerals in local breeds.<br>2. Integrated fish-cum-duck-cum-pig farming.<br>3. Goat farming.<br>4. Pig farming.<br>5. Contiginious disease of dairy animals & their vaccination programme. | 1. Contiginious disease of dairy animals & their vaccination programme. | 1. Krishak Gosthi-1<br>2. Krishak helpline-34<br>3. Extension literature- 2<br>4. Newspaper coverage -3 |                             |
| 7. | Popularization of IPM measures for Horticultural crops                                       | Vegetable           | 1. Low yield of vegetables.<br>2. High insect – pest attack in vegetable crops.<br>3. Lack of irrigation water in winter and summer season.<br>4. Unavailability of quality seeds. | 1. Increasing yield through adopting seasonal variety of tomato during rainy season.<br>2. Assessment of effective irrigation system in summer ladyfinger. |                                                                                                                                                                                             | 1. Wilt management in vegetables.<br>2. Important disease of brinjal & its management.<br>3. Potash management in potato.<br>4. Disease and pest management in Cole crops.                                                              | -                                                                       | 1. Krishak helpline-28<br>2. Extension literature -1<br>3. Newspaper coverage-7                         | -                           |

|    |                                                           |                              |                                                                                                                                                                                                                                               |   |   |                                                                                                                                                                                                                             |                              |                                                                                                                                      |   |
|----|-----------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---|
| 8. | Introduction of post harvest & value addition technology. | All crops.                   | <ol style="list-style-type: none"> <li>1. Poor market facility to sale the fresh production in agriculture.</li> <li>2. No infrastructure for presentation.</li> <li>3. No any processing industry.</li> <li>4. Lack of knowledge.</li> </ol> | - | - | <ol style="list-style-type: none"> <li>1. Preparation of squash, jam, jelly.</li> <li>2. Value addition in pulse crops.</li> <li>3. Production of Soya sauce.</li> <li>4. Value addition in seasonal vegetables.</li> </ol> | -                            | <ol style="list-style-type: none"> <li>1. Mahila Gosthi-1</li> <li>2. Krishak helpline-7</li> <li>3. Newspaper coverage-4</li> </ol> | - |
| 9. | Entrepreneurship development of SHG groups.               | Entrepreneurship development | <ol style="list-style-type: none"> <li>1. Low profitability in traditional farming.</li> <li>2. High risk in traditional farming.</li> </ol>                                                                                                  | - | - | Seed production technology of paddy.<br>Pig farming.<br>Value addition in seasonal vegetables.<br>Mushroom cultivation.<br>Goat farming.<br>Cattle farming.<br>Rice nursery raising.                                        | 1. Management of SHG groups. | Krishak gosthi-2<br>Krishak helpline-29<br>Newspaper coverage-8<br>Radio talk-1                                                      |   |

### 3.1. B. Details of On Farm Trials :

#### A. RESULTS OF ON FARM TRIAL KHARIF 2009:

**TITLE:** INCREASING THE PROFITABILITY BY CULTIVATING HIGH YIELDING QUALITY RICE VARIETIES IN LOW LAND RAINFED SITUATION.

1. **Problem definition:** Low profitability in low land rain fed rice cultivation.
2. **Cause:** Cultivation of low price.
3. **Hypothesis:** High yielding quality paddy varieties may increase the profitability in low land rainfed paddy cultivation.
4. **Technology Assessed / Refined (should be mentioned whether it is assessment or refinement):**  
T<sub>1</sub> = Farmers practice (Swarna)  
T<sub>2</sub> = BPT 5204 (Sambha mansoori).  
T<sub>3</sub> = Rajshree.
5. **Source of technology:** RAU, Pusa and DRR, Hyderabad.
6. **Season:** Kharif 2009.
7. **Design:** RBD.
8. **No. of replication (farmer):** 10.
9. **Production system:** Rice based production system.
10. **Performance of technology with performance indicator:**

| Technology options                       | Initial soil status (Kg/ha) |                  |                  | OC (%) | pH  | Yield attributing characters |                     |                       |                     | Yield (q/ha) | Gross income | Net return (Rs./ha) | BC ratio |
|------------------------------------------|-----------------------------|------------------|------------------|--------|-----|------------------------------|---------------------|-----------------------|---------------------|--------------|--------------|---------------------|----------|
|                                          | N                           | P <sub>2</sub> O | K <sub>2</sub> O |        |     | No. of tillers/plants        | Panicle length (cm) | No. of Grains/panicle | 1000 grain wt. (gm) |              |              |                     |          |
| Farmers practice T <sub>1</sub>          | 120.2                       | 12.86            | 135.8            | 0.67   | 6.5 | 11.5                         | 20.04               | 130.8                 | 20.0                | 36.9         | 34132        | 15132               | 1:1.80   |
| Technological options – 1 T <sub>2</sub> | 120.2                       | 12.86            | 135.8            | 0.67   | 6.5 | 15.0                         | 19.5                | 140.0                 | 19.5                | 36.2         | 55205        | 36205               | 1:2.91   |
| Technological options – 2 T <sub>3</sub> | 120.2                       | 12.86            | 135.8            | 0.67   | 6.5 | 14.0                         | 22.5                | 160.0                 | 22.0                | 38.6         | 51145        | 32145               | 1:2.69   |
| SEm±                                     |                             |                  |                  |        |     |                              |                     |                       |                     | 0.41         | 710          | 318                 |          |
| CD5%                                     |                             |                  |                  |        |     |                              |                     |                       |                     | 1.20         | 1945         | 841                 |          |

Rate of rice grain – Swarna @Rs. 800/q, BPT 5204 - @Rs. 1400/q, Rajshree @Rs. 1200/q, straw @Rs100/q.

Cost of cultivation – Rs. 19000/ha.

11. **Interpretation of data:** Indian Agriculture Dependent on monsoon. So the cultivation is directly linked with monsoon. Farmers cultivate rice in rain fed condition. In the year 2009 they fail to cultivate upland rice due to irregular rainfall. Almost farmers cultivate low land rice but due to low quality variety the monetary gain was low. Therefore present investigation was planned to evaluate the performance of the promising high yielding quality rice varieties in low land situation.

Among all three varieties yield of Rajshree was found significantly higher than BPT-5204. Both these two varieties were significant superior than MTU-7029. The gross and net return of BPT-5204 was significantly higher than Rajshree due to its higher market price succeeded by Swarna.

12. **Constraints:** Less availability of Rajshree and BPT-5204 varietal seeds in local market.
13. **Process of farmers participation:-**
  - a. During field visits.
  - b. During training.
  - c. Farmers visit to KVK.

## **B. RESULTS OF ON FARM TRIAL KHARIF 2009.**

### **TITLE: CONTROL OF WILT OF BRINJAL BY APPLICATION OF PSEUDOMONAS FLUORESCENCE AND TURMERIC POWDER.**

1. **Problem identified:** - Mortality of Brinjal plants at flowering and fruiting stage
2. **Cause:** - Due to infestation of bacterial wilt.
3. **Hypothesis:** - Application of pseudomonas fluorescence and turmeric powder may save the plants at flowering and fruiting stage
4. **Treatment:** -
  - T<sub>1</sub> – Control (Farmers practice – Spray of Bavistin @ 1g/litre water 2 -3 times after appearance of disease.
  - T<sub>2</sub> – Application of pseudomonas fluorescence @2 kg/ha (1 kg pseudomonas fluorescence (pseudo cal)mixing 1 q. compost ).
  - T<sub>3</sub>– 1 gm Asfodita (hing) + 5 g turmeric powder in 10 liter of water for root dipping for 4 – 5 hours.
  - T<sub>4</sub>– Soil treatment with bleaching powder @15 kg/ha in the form of pillets.
5. **Source of technology:** I.I.V.R., Varanasi
6. **Season:** - Kharif 2009.
7. **Design:** - RBD
8. **Replication** :- 6
9. **Production system** :- Vegetable based production system.
10. Performance of technology with performance indicators.

#### **Variety – Swarna Shyamali**

|                | Yield (t/ha) | 100 fruit wt (kg) | Mortality (%) |        |        | Net income (in Rs.) | BC ratio |
|----------------|--------------|-------------------|---------------|--------|--------|---------------------|----------|
|                |              |                   | At 30 DAS     | 60 DAS | 90 DAS |                     |          |
| T <sub>1</sub> | 17.10        | 19.1              | 5.20          | 15.3   | 38.1   | 91000               | 1:3.0    |
| T <sub>2</sub> | 24.30        | 20.1              | 0.91          | 2.4    | 5.6    | 147400              | 1:4.1    |
| T <sub>3</sub> | 22.9         | 19.7              | 1.12          | 5.1    | 7.9    | 136200              | 1:3.89   |
| T <sub>4</sub> | 23.4         | 19.8              | 1.11          | 4.3    | 7.1    | 140200              | 1:3.98   |

Av. Rate (Rs./Qt): - 8000

Cost of production/ha - T<sub>1</sub> – 45000

T<sub>2</sub> - 47000

T<sub>3</sub>- 47000

T<sub>4</sub>- 47000

11. **Final recommendation for micro level situation.** Application of Pseudomonas Fluorescence @ 2 kg/ha (1 kg pseudomonas fluorescence (pseudo cal) mixing 1 q. compost) before flowering stage or pick vegetative growth.
12. Constraints identified and feedback for research.
13. Process of farmers participation and their reaction.
  - I. Interaction of farmers during field visit.
  - II. During farmers visit to KVK.
  - III. Kishan gosthi.

**C. RESULTS OF ON FARM TRIAL EARLY KHARIF 2009:**

**1. TITLE: MANAGEMENT OF LEAF CURL OF TOMATO.**

**2. Problem diagnoses:** Low yield of Tomato.

**3. Cause:** Leaf curl disease in tomato.

**4. Details of technologies selected for assessment/refinement:**

T<sub>1</sub>- Control (1-2 spray of unidentified insecticide like superkiller)

T<sub>2</sub>- Seed treatment with imidacloprid 70 w.s @ 3 g /Kg and spray of imidacloprid @ 1 ml / litre water at 15 days interval starting from pick vegetative stage.

T<sub>3</sub>- Root dipping in imidacloprid solution @ 4-5 ml / litre of water for one hour before transplanting of the seedling and spray 1 ml/litre water at 15 days interval starting from pick vegetative stage.

**5. Source of technology:** IIVR, Varanasi.

**6. Season:** Kharif 2009.

**7. Design:** RBD.

**8. Replication:** 10.

**9. Production system:** Vegetatable based production system.

**Thematic area:** IPM.

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

| Sl. | Treatment      | Mean yield (t/ha) | Increased in yield |      |
|-----|----------------|-------------------|--------------------|------|
|     |                |                   | (t/ha)             | %    |
| 1.  | T <sub>1</sub> | 7.9               | -                  | -    |
| 2.  | T <sub>2</sub> | 9.3               | 1.4                | 17.7 |
| 3.  | T <sub>3</sub> | 10.0              | 2.1                | 26.6 |

SEm± 0.29

CD (0.05) = 0.91

Cv (%) = 9.2

**11. Final recommendation for micro level situation:**

Root dipping in imidacloprid solution @ 4-5 ml/litre of water for one hour before transplanting of the seedling and spray @ 1 ml /litre water at 15 days interval from pick vegetative stage.

**12. Constraints identified and feedback for research:**

--

**13. Process of farmers participation and their reaction:**

(1). During farmers visit to KVK.

(2). On the site of OFT.

(3). During diagnostic visits.

#### **D. RESULTS OF ON FARM TRIAL KHARIF 2009:**

**1. TITLE: WEED MANAGEMENT IN KHARIF MAIZE.**

**2. Problem diagnoses:** Low yield of Kharif maize.

**3. Cause:** High weed infestation decreases the yield of kharif maize.

**4. Details of technologies selected for assessment/refinement:**

T<sub>1</sub>- Control (Farers Practice – One manual weeding at 20 – 25 days after sowing.

T<sub>2</sub>- Spray of Simazine 50% dust @1.5 Kg / ha pre emergence.

T<sub>3</sub>- Spray of Simazine 50% dust @1.5 Kg / ha pre emergence and one hand weeding at 25 – 30 days after sowing.

**5. Source of technology:** Birsa Agricultural University, Ranchi.

**6. Season:** Kharif 2009.

**7. Design:** RBD.

**8. Replication:** 16.

**9. Production system:** Maize based upland production system.

**Thematic area:** Weed management in cereal crop .

Weed flora: *Cynodon dactylon*, *Cyperous rotendus*, *Echinochloa crusgulli*,  
*Dactyloctenium aegypticum*, *Sorghum halepanse*, *Amarenthus viridis*.

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

| Sl. | Treatment      | yield (Q/ha) | Increased in yield (%) | Gross return (Rs./ha) | Net return (Rs./ha) | B:C ratio | No. of weeds/m <sup>2</sup> at 60 DAS |
|-----|----------------|--------------|------------------------|-----------------------|---------------------|-----------|---------------------------------------|
| 1.  | T <sub>1</sub> | 24.4         | -                      | 18300                 | 8300                | 1:1.83    | 46.7                                  |
| 2.  | T <sub>2</sub> | 22.9         | (-) 6.1%               | 17175                 | 7675                | 1:1.81    | 53.3                                  |
| 3.  | T <sub>3</sub> | 29.5         | 20.9%                  | 22125                 | 11625               | 1:2.11    | 18.9                                  |

Rate of grain = Rs. 750/q.

Cost of cultivation = 10000/ha, T<sub>1</sub>

(Approximated)= 9500/ha, T<sub>2</sub>

10500/ha. T<sub>3</sub>

**11. Final recommendation for micro level situation:**

Spray of Simazine 50% dust @ 1.5 kg/ha per emergence and one hand weeding 25 – 30 days after sowing produced highest yield and benefit.

**12. Constraints identified and feedback for research:**

Grassy weeds like *Cynodon dactylon* and *Cyperous rotendus* could not been controlled effectively for longer period by Atrazine though there was good initial effect for 30 days.

**13. Process of farmers participation and their reaction:**

- I. Field visit.
- II. Farmers – scientists interaction programme
- III. Krishak Gosthi.

**E. RESULTS OF ON FARM TRIAL KHARIF 2009:**

1. **TITLE:** EFFECT OF NPK AND BIOFERTILIZER ON THE YIELD OF LOW LAND PADDY.
2. **Problem diagnoses:** Low yield of low land paddy.
3. **Cause:** Low and imbalanced use of fertilizer as well as low soil organic matter.
4. **Details of technologies selected for assessment/refinement:**  
T<sub>1</sub>- Farmers practice (50 Kg N+ 40 Kg P<sub>2</sub>O<sub>5</sub> /ha)  
T<sub>2</sub>- 50 Kg N+ 30 Kg P<sub>2</sub>O<sub>5</sub> + 15Kg K<sub>2</sub>O + 10 Kg BGA/ha.  
T<sub>3</sub>- 80 Kg N + 40 Kg P<sub>2</sub>O<sub>5</sub> +20 Kg K<sub>2</sub>O + 10 Kg BGA/ha.
5. **Source of technology:** Birsa Agricultural University, Ranchi.
6. **Season:** Kharif 2009.
7. **Design:** RBD
8. **Replication:** 10.
9. **Production system:** Paddy based production system.

**Thematic area:** Integrated Nutrient Management.

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

| Treatment      | Yield (Q/ha) | Increase over control (%) | Gross return (Rs./ha) | Net return (Rs./ha) | B:C ratio | Post harvest soil analysis |                    |                   |                   |                   |
|----------------|--------------|---------------------------|-----------------------|---------------------|-----------|----------------------------|--------------------|-------------------|-------------------|-------------------|
|                |              |                           |                       |                     |           | pH                         | Organic carbon (%) | Available N mg/Kg | Available P mg/Kg | Available K mg/Kg |
| T <sub>1</sub> | 35.9         | -                         | 36810                 | 20310               | 1:2.31    | 7.0                        | 0.39               | 116               | 14.3              | 103.1             |
| T <sub>2</sub> | 42.4         | 18.1%                     | 43460                 | 26460               | 1:2.56    | 7.1                        | 0.46               | 130               | 14.1              | 108.9             |
| T <sub>3</sub> | 44.2         | 23.1                      | 45305                 | 27705               | 1:2.57    | 7.1                        | 0.48               | 138               | 14.3              | 111.2             |
| Initial        |              |                           |                       |                     |           | 6.8                        | 0.38               | 117               | 14.2              | 104.7             |

**Rate** = 900/q. (seed)

100/q. (straw)

Cost of cultivation = Rs. 16500/ha, (T<sub>1</sub>)

(Approximate) Rs. 17000/ha (T<sub>2</sub>)

Rs. 17600/ha (T<sub>3</sub>)

**11. Final recommendation for micro level situation:**

Eighty kilogram nitrogen with 40 Kg P<sub>2</sub>O<sub>5</sub> + 20Kg K<sub>2</sub>O + 10 Kg BGA/ha was found best.

**12. Constraints identified and feedback for research:**

--

**13. Process of farmers participation and their reaction:**

I. Field visit.

II. Krishak Gosthi.

## **F      RESULTS OF ON FARM TRIAL KHARIF 2009:**

### **2. TITLE: EFFECTIVENESS OF DIFFERENT COMMUNICATION MEDIA IN TERMS OF RETENTION OF KNOWLEDGE AMONG VERMI COMPOST TRAINEES.**

1. Problem identified: - Poor adoption of vermi compost technology by trainees.
2. Cause: - Poor knowledge and skill retention among trainees.
3. Hypothesis: - Selection of proper communication media may increase the retention of knowledge.
4. Treatment: - T<sup>1</sup> - Lecture + Demonstration.  
T<sup>2</sup> - Print media + Demonstration.  
T<sup>3</sup> - Demonstration + Electronic media  
T<sup>4</sup> - Print + Electronic media + Demonstration.
5. Season : - Whole year.
14. Replication: - 4 groups.
15. Sample size: - As per treatment.
16. Observations: -

| Category              | Group-1(Mean)<br>Lecture +<br>Demonstration | Group-2(Mean)<br>Print media +<br>Demonstration | Group -3(Mean)<br>Demonstration +<br>Electronic media | Group -4(Mean)<br>Print + Electronic<br>media +<br>Demonstration |
|-----------------------|---------------------------------------------|-------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|
| Pre evaluation        | 22.14                                       | 15.78                                           | 19.75                                                 | 20.00                                                            |
| Post evaluation       | 25.85                                       | 23.28                                           | 26.07                                                 | 26.92                                                            |
| Evaluation at 15 days | 25.28                                       | 25.05                                           | 26.14                                                 | 29.42                                                            |
| Evaluation at 30 days | 22.64                                       | 25.14                                           | 25                                                    | 25.57                                                            |
| Average mean          | 23.98                                       | 22.31                                           | 24.24                                                 | 25.47                                                            |
| Ranks                 | III                                         | IV                                              | II                                                    | I                                                                |

17. Recommendation: - It is clear from the above observation that the print media + electronic media + demonstration is most effective in retention of knowledge because it increases maximum score as followed by demonstration + electronic media and lecture and demonstration. The print media and demonstration are least effective in retention of knowledge among vermi compost trainees.
18. Constraints: -
  - a. Low educational level of some trainees.
  - b. Poor reading habit of trainees.
19. Process of farmers participation.
  - a. Training of farmers
  - b. Active participation of farmers during training.

## **G. RESULTS OF ON FARM TRIAL RABI 2008 – 09:**

**TITLE: INCREASING THE BRINJAL YIELD BY CULTIVATING BACTERIAL WILT RESISTANT VARIETIES.**

1. **Problem diagnoses:** Yield reduction due to mortality of plants.
2. **Cause:** Infestation of bacterial wilt in standing plants.
3. **Hypothesis:** Cultivation of bacterial wilt resistant varieties may save the plants and ultimately will increase the yield.
4. **Details of technologies selected for assessment/refinement:**  
T<sub>1</sub>- Farmers practice (Purple round)  
T<sub>2</sub>- Swarna syamali  
T<sub>3</sub>- Swarna mani  
T<sub>4</sub>- Swarna shree.
5. **Source of technology:** HARP, Palandu, Ranchi.
6. **Season:** Rabi 2008 – 09.
7. **Design:** RBD.
8. **Replication:** 08.
9. **Production system:** Vegetable based production system.  
**Thematic area:** Varietal evaluation.

### **10. Performance of the Technology with performance indicators:**

| Sl. | Treatment                                        | Mean yield (t/ha) | Increased in yield |      |
|-----|--------------------------------------------------|-------------------|--------------------|------|
|     |                                                  |                   | (t/ha)             | %    |
| 1.  | T <sub>1</sub> - Farmers practice (Purple round) | 14.56             | -                  | -    |
| 2.  | T <sub>2</sub> - Swarna syamali                  | 30.58             | 16.02              | 2.1  |
| 3.  | T <sub>3</sub> - Swarna mani                     | 32.26             | 17.70              | 2.22 |
| 4.  | T <sub>4</sub> - Swarna shree                    | 35.26             | 20.70              | 2.42 |

SEm± 2.18

CD (0.05) = 6.53

Cv (%) = 8.60

11. **Final recommendation for micro level situation:**  
Variety Swarna Syamali yielded lesser than Swarna Shree. However mortality percentage and market acceptability is far – far better than others.
12. **Constraints identified and feedback for research:**  
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13. **Process of farmers participation and their reaction:**
  - I. During visit at OFT site.
  - II. During diagnostic visits.
  - III. During farmers visit to KVK.

## H. RESULTS OF ON FARM TRIAL RABI 2008 – 09:

**TITLE: INCREASING THE TOMATO YIELD BY CULTIVATING BACTERIAL WILT RESISTANT VARIETIES.**

1. **Problem diagnoses:** Yield reduction due to mortality of plants.
2. **Cause:** Infestation of bacterial wilt in standing plants.
3. **Hypothesis:** Cultivation of bacterial wilt resistant varieties may save the plants and ultimately will increase the yield.
4. **Details of technologies selected for assessment/refinement:**  
T<sub>1</sub>- Farmers practice (Sarvoday, a variety of century seeds)  
T<sub>2</sub>- Arka Abha  
T<sub>3</sub>- Swarna Lalima  
T<sub>4</sub>- Swarna Navin.
5. **Source of technology:** IIHR, Bangalore & HARP, Palandu, Ranchi.
6. **Season:** Rabi 2008 – 09.
7. **Design:** RBD.
8. **Replication:** 08.
9. **Production system:** Vegetable based production system.  
**Thematic area:** Varietal evaluation.

### 10. **Performance of the Technology with performance indicators:**

| Sl. | Treatment                                    | Mean yield (t/ha) | Increased in yield |      |
|-----|----------------------------------------------|-------------------|--------------------|------|
|     |                                              |                   | (t/ha)             | %    |
| 1.  | T <sub>1</sub> - Farmers practice (Sarvoday) | 13.3              | -                  | -    |
| 2.  | T <sub>2</sub> - Arka Abha                   | 28.82             | 15.52              | 2.17 |
| 3.  | T <sub>3</sub> - Swarna Lalima               | 31.86             | 18.56              | 2.40 |
| 4.  | T <sub>4</sub> - Swarna Navin                | 32.08             | 18.78              | 2.41 |

SEm± 2.87

CD (0.05) = 8.60

Cv (%) = 10.32

11. **Final recommendation for micro level situation:**  
Arka Abha is best among all varieties as per market choice. Swarna lalima is the choice of vegetable purpose consumers only.
12. **Constraints identified and feedback for research:**  
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13. **Process of farmers participation and their reaction:**
  - I. During visit at OFT site.
  - II. During farmers visit to KVK
  - III. During diagnostic visits

## **I. RESULTS OF ON FARM TRIAL RABI 2008 - 09:**

**TITLE: PERFORMANCE ASSESSMENT OF DIFFERENT WHEAT VARIETIES UNDER LATE SOWN IRRIGATED CONDITION.**

1. **Problem identified:** low yield of wheat in late sown irrigated condition.
2. **Cause:** low yield of late sown wheat.
3. **Hypothesis:** Cultivation of suitable late sown wheat variety may increase the productivity of wheat.
4. **Details of technologies selected for assessment/refinement:**  
T<sub>1</sub>- Farmers Practice (UP 262)  
T<sub>2</sub>- K9107  
T<sub>3</sub>- HUW 234  
T<sub>4</sub>- HD 2643
5. **Source of technology:** ICAR institutes & BHU.
6. **Season:** Rabi 2008-09.
7. **Design:** Randomized block design
8. **Replication:** 10.
9. **Production system:** Rice wheat production system.  
**Thematic area:** Crop variety management.
10. **Performance of the Technology with performance indicators:**

| Sl. | Treatment                                  | Mean yield (Q/ha) | Increased in yield | Gross income (Rs./ha) | Net return (Rs./ha) | B:C ratio |
|-----|--------------------------------------------|-------------------|--------------------|-----------------------|---------------------|-----------|
| 1.  | T <sub>1</sub> - Farmers Practice (UP 262) | 28.0              | -                  | 28800                 | 8800                | 1.44:1    |
| 2.  | T <sub>2</sub> - K9107                     | 42.5              | 51.8%              | 36600                 | 16600               | 2.1:1     |
| 3.  | T <sub>3</sub> - HUW 234                   | 34.5              | 23.2%              | 36960                 | 16960               | 1.7:1     |
| 4.  | T <sub>4</sub> - HD 2643                   | 36.5              | 30.4%              | 40560                 | 20560               | 1.8:1     |

11. **Final recommendation for micro level situation:**  
The yield of K9107 was highest among all varieties, even significant superiority than the HD 2643 and HUW234 also. Hence it is recommended for late sown irrigated condition.
12. **Constraints identified and feedback for research:**  
Variety is not easily available in local market.
13. **Process of farmers participation and their reaction:**
  - I. Interaction with farmers during field visits
  - II. During farmers – scientists interaction programme.
  - III. During gothis.

## **J. RESULTS OF ON FARM TRIAL SUMMER 2009:**

**TITLE: ASSESSMENT OF EFFECTIVE IRRIGATION METHOD IN SUMMER LADYFINGER.**

1. **Problem diagnoses:** Low production of summer ladyfinger due to less area under cultivation.
2. **Cause:** Low irrigation water availability in summer season.
3. **Hypothesis:** Application of proper irrigation method with improved layout may increase the area under summer ladyfinger cultivation.
4. **Details of technologies selected for assessment/refinement:**  
T<sub>1</sub>- Traditional furrow irrigation method + traditional layout of the field.  
T<sub>2</sub>- Surge irrigation method + improved layout of the field  
T<sub>3</sub>- Skip irrigation method + improved layout of the field
5. **Source of technology:** I.A.R.I., New Delhi.
6. **Season:** Summer 2009.
7. **Design:** RBD.
8. **Replication:** 08.
9. **Production system:** Vegetable based production system.  
**Thematic area:** Irrigation water management in vegetable.

### **10. Performance of the Technology with performance indicators:**

| Sl. | Treatment      | Mean yield (q/ha) | Increased in yield |       |
|-----|----------------|-------------------|--------------------|-------|
|     |                |                   | (q/ha)             | %     |
| 1.  | T <sub>1</sub> | 104               | -                  | -     |
| 2.  | T <sub>2</sub> | 118               | 14                 | 13.46 |
| 3.  | T <sub>3</sub> | 109               | 5                  | 4.81  |

### **11. Final recommendation for micro level situation:**

1. Irrigation by surge irrigation method with improved layout of the field in ladyfinger produced highest yield (118 q/ha) and saved 19.5% of irrigation water with highest C.B. ratio.
2. In skip irrigation method with improved layout of the field give slightly less C.B. ratio but water saving in 29.3% with highest field water use efficiency i.e. 0.188t/ha – cm.

### **12. Constraints identified and feedback for research:**

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### **13. Process of farmers participation and their reaction:**

- I. Field visit.
- II. Krishak Gosthi.

### 3.1. A

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed                                        | Title of OFT                                                                                     | No.<br>of<br>trials* | Technology<br>Assessed                            | Parameters<br>of<br>assessment | Data on the<br>parameter | Results of<br>assessment                                                                                                 | Feedback<br>from the<br>farmer                   | Any<br>refinement<br>done | Justification<br>for refinement |
|---------------------|----------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------|--------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------|---------------------------------|
| 1                   | 2                    | 3                                                           | 4                                                                                                | 5                    | 6                                                 | 7                              | 8                        | 9                                                                                                                        | 10                                               | 11                        | 12                              |
| Rice                | Rainfed              | Low<br>profitability<br>in low land<br>rice<br>cultivation. | Increasing the<br>profitability<br>by cultivating<br>high yielding<br>quality rice<br>varieties. | 10                   | T <sub>1</sub> -Farmers<br>practice (Swarna)      | Yield<br>(q/ha)                | 36.9                     | Farmers<br>like<br>Rajshree as<br>low land<br>rice variety<br>due to its<br>higher<br>production<br>and fine<br>quality. | False<br>smut<br>was<br>found<br>in BPT<br>5204. | No                        | -                               |
|                     |                      |                                                             |                                                                                                  |                      |                                                   | B:C ratio                      | 1:1.80                   |                                                                                                                          |                                                  |                           |                                 |
|                     |                      |                                                             |                                                                                                  |                      | T <sub>2</sub> - BPT-5204<br>(Sambha<br>mansoori) | Yield<br>(q/ha)                | 36.2                     |                                                                                                                          |                                                  |                           |                                 |
|                     |                      |                                                             |                                                                                                  |                      |                                                   | B:C ratio                      | 1:2.91                   |                                                                                                                          |                                                  |                           |                                 |
|                     |                      |                                                             |                                                                                                  |                      | T <sub>3</sub> - Rajshree                         | Yield<br>(q/ha)                | 38.6                     |                                                                                                                          |                                                  |                           |                                 |
|                     |                      |                                                             |                                                                                                  |                      |                                                   | B:C ratio                      | 1:2.69                   |                                                                                                                          |                                                  |                           |                                 |

\* No. of farmers

| Technology Assessed / Refined               | *Production per unit<br>(Kg/ha) | Net Return (Profit) in Rs. / unit<br>(Rs./ha) | BC Ratio |
|---------------------------------------------|---------------------------------|-----------------------------------------------|----------|
| 13                                          | 14                              | 15                                            | 16       |
| T <sub>1</sub> -Farmers practice (Swarna)   | <b>34132</b>                    | <b>15132</b>                                  | 1:1.80   |
| T <sub>2</sub> - BPT-5204 (Sambha mansoori) | <b>55205</b>                    | <b>36205</b>                                  | 1:2.91   |
| T <sub>3</sub> - Rajshree                   | <b>51145</b>                    | <b>32145</b>                                  | 1:2.69   |

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

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

**B.**

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed       | Title of OFT                                                                                             | No.<br>of<br>trials* | Technology<br>Assessed | Parameters<br>of<br>assessment | Data on the parameter          |             |           | Results of<br>assessment                                                                                                                                                                                 | Feedback<br>from the<br>farmer                                                | Any<br>refinement<br>done | Justification<br>for<br>refinement |
|---------------------|----------------------|----------------------------|----------------------------------------------------------------------------------------------------------|----------------------|------------------------|--------------------------------|--------------------------------|-------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------|------------------------------------|
| 1                   | 2                    | 3                          | 4                                                                                                        | 5                    | 6                      | 7                              | 8                              |             |           | 9                                                                                                                                                                                                        | 10                                                                            | 11                        | 12                                 |
| Brinjal             | upland<br>Irrigated  | Low<br>yield of<br>brinjal | Control of wilt of<br>Brinjal by<br>application of<br>pseudomonas<br>fluorescence and<br>turmeric powder | 6                    |                        | Yield<br>(t/ha)                | 100<br>fruit<br>weight<br>(kg) | Mortality % |           | Application of<br>Pseudomonas<br>Fluorescence @<br>2 kg/ha (1 kg<br>pseudomonas<br>fluorescence<br>(pseudo cal)<br>mixing 1 q.<br>compost) before<br>flowering stage<br>or pick<br>vegetative<br>growth. | Pseudomonas<br>Fluorescence<br>powder is<br>useful to<br>control<br>the wilt. | No                        | N.A                                |
|                     |                      |                            |                                                                                                          |                      |                        |                                |                                | 30 DAS      | 60<br>DAS |                                                                                                                                                                                                          |                                                                               |                           |                                    |
|                     |                      |                            |                                                                                                          |                      | T <sub>1</sub>         | 17.10                          | 19.1                           | 5.20        | 15.3      |                                                                                                                                                                                                          |                                                                               |                           |                                    |
|                     |                      |                            |                                                                                                          |                      | T <sub>2</sub>         | 24.30                          | 20.1                           | 0.91        | 2.4       |                                                                                                                                                                                                          |                                                                               |                           |                                    |
|                     |                      |                            |                                                                                                          |                      | T <sub>3</sub>         | 22.9                           | 19.7                           | 1.12        | 5.1       |                                                                                                                                                                                                          |                                                                               |                           |                                    |
|                     |                      |                            |                                                                                                          |                      | T <sub>4</sub>         | 23.4                           | 19.8                           | 1.11        | 4.3       | 7.1                                                                                                                                                                                                      |                                                                               |                           |                                    |

\* No. of farmers

| Technology Assessed / Refined                                                                                                       | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------|----------|
| 13                                                                                                                                  | 14                   | 15                                | 16       |
| T <sub>1</sub> – Control (Farmers practice – Spray of Bavistin @ 1g/litre water 2 -3 times after appearance of disease.             | 17.36 t/ha           | 91000                             | 1:3.0    |
| T <sub>2</sub> – Application of pseudomonas fluorescence @2 kg/ha (1 kg pseudomonas fluorescence (pseudo cal)mixing 1 q. compost ). | 23.0 t/ha            | 147400                            | 1:4.1    |
| T <sub>3</sub> – 1 gm Asfodita (hing) + 5 g turmeric powder in 10 liter of water for root dipping for 4 – 5 hours.                  | 23.5 t/ha            | 136200                            | 1:3.89   |
| T <sub>4</sub> – Soil treatment with bleaching powder @15 kg/ha in the form of pillets.                                             | 24.8 t/ha            | 140200                            | 1:3.98   |

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

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

**C.**

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed       | Title of OFT                             | No.<br>of<br>trials* | Technology<br>Assessed | Parameters<br>of<br>assessment | Data on<br>the<br>parameter | Results of assessment                                                                                                                                                                                                 | Feedback<br>from the<br>farmer                                            | Any<br>refinement<br>done | Justification for<br>refinement |
|---------------------|----------------------|----------------------------|------------------------------------------|----------------------|------------------------|--------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------|---------------------------------|
| 1                   | 2                    | 3                          | 4                                        | 5                    | 6                      | 7                              | 8                           | 9                                                                                                                                                                                                                     | 10                                                                        | 11                        | 12                              |
| Tomato              | Upland<br>Irrigated  | Low<br>yield of<br>Tomato. | Management<br>of leaf curl of<br>Tomato. | 5                    | T <sub>1</sub>         | Infected<br>plant (%)          | 27.6                        | Root dipping in<br>imidacloprid solution<br>@ 4-5 ml/litre of water<br>for one hour before<br>transplanting of the<br>seedling and spray @ 1<br>ml /litre water at 15<br>days interval from pick<br>vegetative stage. | Single<br>insecticide<br>should be<br>prepared for<br>control<br>disease. | No                        | N.A                             |
|                     |                      |                            |                                          |                      |                        | Yield<br>(t/ha)                | 7.9                         |                                                                                                                                                                                                                       |                                                                           |                           |                                 |
|                     |                      |                            |                                          |                      | T <sub>2</sub>         | Infected<br>(%)                | 2.3                         |                                                                                                                                                                                                                       |                                                                           |                           |                                 |
|                     |                      |                            |                                          |                      |                        | Yield<br>(t/ha)                | 9.3                         |                                                                                                                                                                                                                       |                                                                           |                           |                                 |
|                     |                      |                            |                                          |                      | T <sub>3</sub>         | Infected<br>(%)                | 1.6                         |                                                                                                                                                                                                                       |                                                                           |                           |                                 |
|                     |                      |                            |                                          |                      |                        | Yield<br>(t/ha)                | 10.6                        |                                                                                                                                                                                                                       |                                                                           |                           |                                 |

\* No. of farmers

| Technology Assessed / Refined |                                                                                                                                                                                                      | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------|----------|
| 13                            |                                                                                                                                                                                                      | 14                   | 15                                | 16       |
| T <sub>1</sub> -              | Control (1-2 spray of insecticide like superkiller)                                                                                                                                                  | 7.9 t/ha             | 22300                             | 1:1.49   |
| T <sub>2</sub> -              | Seed treatment with imidacloprid 70 w.s @ 3 g /Kg and spray of imidacloprid @ 1 ml / litre water at 15 days interval starting from pick vegetative stage                                             | 9.3 t/ha             | 35200                             | 1:1.81   |
| T <sub>3</sub> -              | Root dipping in imidacloprid solution @ 4-5 ml / litre of water for one hour before transplanting of the seedling and spray 1 ml/litre water at 15 days interval starting from pick vegetative stage | 10.0 t/ha            | 38400                             | 1:1.92   |

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

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

**D.**

| Crop/<br>enterprise | Farming<br>situation                                        | Problem<br>Diagnosed   | Title of OFT                              | No. of<br>trials* | Technology Assessed                                                                                                                    | Parameters<br>of<br>assessment              | Data on<br>the<br>parameter | Results of<br>assessment                                                                                                                                             | Feedback from<br>the farmer                                                                                                               | Any<br>refinement<br>done | Justification<br>for<br>refinement |
|---------------------|-------------------------------------------------------------|------------------------|-------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------|
| 1                   | 2                                                           | 3                      | 4                                         | 5                 | 6                                                                                                                                      | 7                                           | 8                           | 9                                                                                                                                                                    | 10                                                                                                                                        | 11                        | 12                                 |
| Maize               | Upland<br>rainfed<br>maize<br>based<br>farming<br>situation | Low yield<br>of maize. | Weed<br>management<br>in Kharif<br>maize. | 16                | T <sub>1</sub> - Control<br>(Farers Practice –<br>One manual weeding<br>at 20 – 25 days.                                               | Yield (q/ha)                                | 24.4                        | Pre<br>emergence<br>application<br>of Simazine<br>50% dust @<br>1.5 kg/ha<br>and one<br>hand<br>weeding at<br>25 – 30 days<br>after sowing<br>was found<br>the best. | <u>Cynodon</u><br><u>dactylon</u><br>and<br><u>Cyperus</u><br><u>rotendus</u><br>could not<br>been<br>controlled<br>for longer<br>period. | ---                       | ---                                |
|                     |                                                             |                        |                                           |                   |                                                                                                                                        | B:C ratio                                   | 1:1.83                      |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |
|                     |                                                             |                        |                                           |                   |                                                                                                                                        | No. of<br>weed/m <sup>2</sup> at<br>60 days | 46.7                        |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |
|                     |                                                             |                        |                                           |                   | T <sub>2</sub> - Spray of Atrazine<br>/ Simazine 50% dust<br>@1.5 Kg / ha pre-<br>emergence.                                           | Yield (q/ha)                                | 22.9                        |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |
|                     |                                                             |                        |                                           |                   |                                                                                                                                        | B:C ratio                                   | 1:1.81                      |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |
|                     |                                                             |                        |                                           |                   |                                                                                                                                        | No. of<br>weed/m <sup>2</sup> at<br>60 days | 53.3                        |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |
|                     |                                                             |                        |                                           |                   | T <sub>3</sub> - Pre-emergence<br>Spray of Atrazine /<br>Simazine 50% dust<br>@1.5 Kg / ha and one<br>hand weeding at 25 –<br>30 days. | Yield (q/ha)                                | 29.5                        |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |
|                     |                                                             |                        |                                           |                   |                                                                                                                                        | B:C ratio                                   | 1:2.11                      |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |
|                     |                                                             |                        |                                           |                   |                                                                                                                                        | No. of<br>weed/m <sup>2</sup> at<br>60 days | 18.9                        |                                                                                                                                                                      |                                                                                                                                           |                           |                                    |

\* No. of farmers

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. /<br>unit | BC Ratio |
|-------------------------------|----------------------|--------------------------------------|----------|
| 13                            | 14                   | 15                                   | 16       |
| <b>T<sub>1</sub></b>          | 2440                 | 8300                                 | 1:1.83   |
| <b>T<sub>2</sub></b>          | 2290                 | 7675                                 | 1:1.81   |
| <b>T<sub>3</sub></b>          | 2950                 | 11625                                | 1:2.11   |

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

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

**E.**

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed      | Title of OFT                                                           | No. of<br>trials* | Technology<br>Assessed                                                                                         | Parameters<br>of<br>assessment | Data on the<br>parameter | Results of<br>assessment                                               | Feedback<br>from the<br>farmer | Any<br>refinement<br>done | Justification<br>for refinement |
|---------------------|----------------------|---------------------------|------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|------------------------------------------------------------------------|--------------------------------|---------------------------|---------------------------------|
| 1                   | 2                    | 3                         | 4                                                                      | 5                 | 6                                                                                                              | 7                              | 8                        | 9                                                                      | 10                             | 11                        | 12                              |
| Paddy               | Paddy -<br>Fallow    | Low<br>yield of<br>paddy. | Effect of NPK<br>& biofertilizers<br>on yield of<br>low land<br>paddy. | 8                 | T <sub>1</sub> -Farmers<br>practice (50 Kg<br>N+ 40 Kg P <sub>2</sub> O <sub>5</sub><br>/ha)                   | Yield<br>(q/ha)                | 35.9                     | Full dose of<br>NPK with<br>10 kg BGA<br>resulted<br>highest<br>yield. |                                |                           |                                 |
|                     |                      |                           |                                                                        |                   |                                                                                                                | B:C ratio                      | 1:2.31                   |                                                                        |                                |                           |                                 |
|                     |                      |                           |                                                                        |                   | T <sub>2</sub> - 50 Kg N+ 30<br>Kg P <sub>2</sub> O <sub>5</sub> + 15Kg<br>K <sub>2</sub> O + 10 Kg<br>BGA/ha. | Yield<br>(q/ha)                | 42.4                     |                                                                        |                                |                           |                                 |
|                     |                      |                           |                                                                        |                   |                                                                                                                | B:C ratio                      | 1:2.56                   |                                                                        |                                |                           |                                 |
|                     |                      |                           |                                                                        |                   | T <sub>3</sub> - 80 Kg N + 40<br>Kg P <sub>2</sub> O <sub>5</sub> +20 Kg<br>K <sub>2</sub> O + 10 Kg<br>BGA/ha | Yield<br>(q/ha)                | 44.2                     |                                                                        |                                |                           |                                 |
|                     |                      |                           |                                                                        |                   |                                                                                                                | B:C ratio                      | 1:2.57                   |                                                                        |                                |                           |                                 |

\* No. of farmers

| Technology Assessed / Refined                                                                         | *Production per unit | Net Return (Profit) in Rs. / unit<br>(Rs./ha) | BC Ratio      |
|-------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------|---------------|
| 13                                                                                                    | 14                   | 15                                            | 16            |
| T <sub>1</sub> -Farmers practice (50 Kg N+ 40 Kg P <sub>2</sub> O <sub>5</sub> /ha)                   | <b>3590</b>          | <b>20310</b>                                  | <b>1:2.31</b> |
| T <sub>2</sub> - 50 Kg N+ 30 Kg P <sub>2</sub> O <sub>5</sub> + 15Kg K <sub>2</sub> O + 10 Kg BGA/ha. | <b>4240</b>          | <b>26460</b>                                  | <b>1:2.56</b> |
| T <sub>3</sub> - 30 Kg N + 40 Kg P <sub>2</sub> O <sub>5</sub> +10 Kg K <sub>2</sub> O + 10 Kg BGA/ha | <b>4420</b>          | <b>27705</b>                                  | <b>1:2.57</b> |

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

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

**F.**

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed                                                     | Title of OFT                                                                                                                         | No. of<br>trials* | Technology<br>Assessed                                          | Parameters<br>of<br>assessment | Data on<br>the<br>parameter | Results of<br>assessment                                                                                                    | Feedback<br>from the<br>farmer | Any<br>refinement<br>done | Justification<br>for<br>refinement |
|---------------------|----------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------|------------------------------------|
| 1                   | 2                    | 3                                                                        | 4                                                                                                                                    | 5                 | 6                                                               | 7                              | 8                           | 9                                                                                                                           | 10                             | 11                        | 12                                 |
| Vermi<br>compost    | -                    | Poor<br>adoption<br>of vermi<br>compost<br>technology<br>by<br>trainees. | Effectiveness<br>of different<br>communication<br>media in terms<br>retention of<br>knowledge<br>among vermi<br>compost<br>trainees. | Whole<br>year     | T <sup>1</sup> - Lecture<br>+<br>Demonstration.                 |                                |                             | Print +<br>Electronic<br>media +<br>Demonstration<br>most effective<br>in retention of<br>knowledge of<br>vermi<br>compost. |                                | --                        | --                                 |
|                     |                      |                                                                          |                                                                                                                                      |                   | T <sup>2</sup> - Print<br>media +<br>Demonstration.             |                                |                             |                                                                                                                             |                                |                           |                                    |
|                     |                      |                                                                          |                                                                                                                                      |                   | T <sup>3</sup> -<br>Demonstration<br>+ Electronic<br>media      |                                |                             |                                                                                                                             |                                |                           |                                    |
|                     |                      |                                                                          |                                                                                                                                      |                   | T <sup>4</sup> - Print +<br>Electronic media<br>+ Demonstration |                                |                             |                                                                                                                             |                                |                           |                                    |

*\* No. of farmers*

| Category              | Group-1(Mean)<br>Lecture +<br>Demonstration | Group-2(Mean)<br>Print media +<br>Demonstration | Group -3(Mean)<br>Demonstration +<br>Electronic media | Group -4(Mean)<br>Print + Electronic<br>media +<br>Demonstration |
|-----------------------|---------------------------------------------|-------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|
| Pre evaluation        | 22.14                                       | 15.78                                           | 19.75                                                 | 20.00                                                            |
| Post evaluation       | 25.85                                       | 23.28                                           | 26.07                                                 | 26.92                                                            |
| Evaluation at 15 days | 25.28                                       | 25.05                                           | 26.14                                                 | 29.42                                                            |
| Evaluation at 30 days | 22.64                                       | 25.14                                           | 25                                                    | 25.57                                                            |
| Average mean          | 23.98                                       | 22.31                                           | 24.24                                                 | 25.47                                                            |
| Ranks                 | III                                         | IV                                              | II                                                    | I                                                                |

*\*Field crops – kg/ha, \* for horticultural crops -= kg or t / ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unit area. mal, \* for mushroom and vermi compost kg/unit area.*

**G.**

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed                                    | Title of OFT                                                                                   | No. of<br>trials* | Technology<br>Assessed                                 | Parameters of<br>assessment | Data on the<br>parameter | Results of<br>assessment                                                                                                                                               | Feedback from<br>the farmer                                                                                                                                                                                       | Any<br>refinement<br>done | Justification<br>for<br>refinement |
|---------------------|----------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------|-----------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------|
| 1                   | 2                    | 3                                                       | 4                                                                                              | 5                 | 6                                                      | 7                           | 8                        | 9                                                                                                                                                                      | 10                                                                                                                                                                                                                | 11                        | 12                                 |
| Brinjal             | Upland<br>irrigated  | Yield<br>reduction<br>due to<br>mortality<br>of plants. | Increasing the<br>brinjal yield by<br>cultivating<br>bacterial wilt<br>resistant<br>varieties. | 08                | T <sub>1</sub> - Farmers<br>practice<br>(Purple round) | Mortality (%)               | 45.30                    | Variety<br>swarna<br>Syamali yield<br>lesser than<br>swarna shree.<br>However<br>mortality<br>percentage<br>and market<br>price is far –<br>far better than<br>others. | Mortality<br>percentage in<br>swarna Syamali is<br>least and market<br>price is high.<br>Never taken to<br>market because<br>all fruit sold at<br>house itself.<br>Swarna mani is<br>acceptable in<br>urban area. | No                        | N.A                                |
|                     |                      |                                                         |                                                                                                |                   |                                                        | Yield(t/ha)                 | 14.56                    |                                                                                                                                                                        |                                                                                                                                                                                                                   |                           |                                    |
|                     |                      |                                                         |                                                                                                |                   | T <sub>2</sub> - Swarna<br>syamali                     | Mortality (%)               | 7.4                      |                                                                                                                                                                        |                                                                                                                                                                                                                   |                           |                                    |
|                     |                      |                                                         |                                                                                                |                   |                                                        | Yield(t/ha)                 | 30.58                    |                                                                                                                                                                        |                                                                                                                                                                                                                   |                           |                                    |
|                     |                      |                                                         |                                                                                                |                   | T <sub>3</sub> - Swarna<br>mani                        | Mortality (%)               | 4.2                      |                                                                                                                                                                        |                                                                                                                                                                                                                   |                           |                                    |
|                     |                      |                                                         |                                                                                                |                   |                                                        | Yield(t/ha)                 | 32.26                    |                                                                                                                                                                        |                                                                                                                                                                                                                   |                           |                                    |
|                     |                      |                                                         |                                                                                                |                   | T <sub>4</sub> - Swarna<br>shree                       | Mortality (%)               | 9.6                      |                                                                                                                                                                        |                                                                                                                                                                                                                   |                           |                                    |
|                     |                      |                                                         |                                                                                                |                   |                                                        | Yield(t/ha)                 | 35.26                    |                                                                                                                                                                        |                                                                                                                                                                                                                   |                           |                                    |

\* No. of farmers

| Technology Assessed / Refined                    | *Production per unit | Net Return (Profit) in Rs. /<br>unit | BC Ratio |
|--------------------------------------------------|----------------------|--------------------------------------|----------|
| 13                                               | 14                   | 15                                   | 16       |
| T <sub>1</sub> - Farmers practice (Purple round) | 14.56                | 48420                                | 1.91     |
| T <sub>2</sub> - Swarna syamali                  | 30.58                | 160560                               | 4.0      |
| T <sub>3</sub> - Swarna mani                     | 32.26                | 236840                               | 5.43     |
| T <sub>4</sub> - Swarna shree.                   | 35.26                | 122800                               | 3.30     |

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

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

**H.**

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed                                    | Title of OFT                                                                                  | No. of<br>trials* | Technology<br>Assessed                             | Parameters of<br>assessment | Data on the<br>parameter | Results of<br>assessment                                                                                                                                                                                                                                | Feedback from<br>the farmer                                                    | Any<br>refinement<br>done | Justification<br>for<br>refinement |
|---------------------|----------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------|-----------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------|------------------------------------|
| 1                   | 2                    | 3                                                       | 4                                                                                             | 5                 | 6                                                  | 7                           | 8                        | 9                                                                                                                                                                                                                                                       | 10                                                                             | 11                        | 12                                 |
| Tomato              | Upland<br>irrigated  | Yield<br>reduction<br>due to<br>mortality<br>of plants. | Increasing the<br>Tomato yield by<br>cultivating<br>bacterial wilt<br>resistant<br>varieties. | 08                | T <sub>1</sub> - Farmers<br>practice<br>(Sarvoday) | Mortality (%)               | 35.6                     | Arka Abha<br>yielded lesser<br>in comparigin<br>to swarna<br>lalima &<br>swarna navin.<br>However<br>fetched better<br>price due to<br>market<br>suitability as<br>vegetable<br>purpose.<br>Swarna lalima<br>is acceptable<br>for vegetable<br>purpose. | Arka Abha is<br>best among<br>all varieties as<br>per market<br>choice.        | No                        | N.A                                |
|                     |                      |                                                         |                                                                                               |                   |                                                    | Yield(t/ha)                 | 13.3                     |                                                                                                                                                                                                                                                         |                                                                                |                           |                                    |
|                     |                      |                                                         |                                                                                               |                   | T <sub>2</sub> - Arka Abha                         | Mortality (%)               | 9.3                      |                                                                                                                                                                                                                                                         | Swarna lalima<br>is the choice<br>of vegetable<br>purpose<br>consumers<br>only |                           |                                    |
|                     |                      |                                                         |                                                                                               |                   |                                                    | Yield(t/ha)                 | 28.82                    |                                                                                                                                                                                                                                                         |                                                                                |                           |                                    |
|                     |                      |                                                         |                                                                                               |                   | T <sub>3</sub> - Swarna<br>lalima                  | Mortality (%)               | 5.7                      |                                                                                                                                                                                                                                                         |                                                                                |                           |                                    |
|                     |                      |                                                         |                                                                                               |                   |                                                    | Yield(t/ha)                 | 31.86                    |                                                                                                                                                                                                                                                         |                                                                                |                           |                                    |
|                     |                      |                                                         |                                                                                               |                   | T <sub>4</sub> - Swarna<br>Navin                   | Mortality (%)               | 7.7                      |                                                                                                                                                                                                                                                         |                                                                                |                           |                                    |
|                     |                      |                                                         |                                                                                               |                   |                                                    | Yield(t/ha)                 | 32.08                    |                                                                                                                                                                                                                                                         |                                                                                |                           |                                    |

\* No. of farmers

| Technology Assessed / Refined                | *Production per unit | Net Return (Profit) in Rs. /<br>unit | BC Ratio |
|----------------------------------------------|----------------------|--------------------------------------|----------|
| 13                                           | 14                   | 15                                   | 16       |
| T <sub>1</sub> - Farmers practice (Sarvoday) | 13.3                 | 15000                                | 1.29     |
| T <sub>2</sub> - Arka Abha                   | 28.82                | 121420                               | 3.36     |
| T <sub>3</sub> - Swarna lalima               | 31.86                | 107800                               | 3.09     |
| T <sub>4</sub> - Swarna Navin                | 32.08                | 108900                               | 3.11     |

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

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

**I.**

| Crop/<br>enterprise | Farming<br>situation | Problem<br>Diagnosed                                                | Title of OFT                                                                                              | No. of<br>trials* | Technology<br>Assessed | Parameters of<br>assessment | Data on the<br>parameter | Results of<br>assessment           | Feedback from<br>the farmer                           | Any<br>refinement<br>done | Justification<br>for<br>refinement |
|---------------------|----------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------|------------------------|-----------------------------|--------------------------|------------------------------------|-------------------------------------------------------|---------------------------|------------------------------------|
| 1                   | 2                    | 3                                                                   | 4                                                                                                         | 5                 | 6                      | 7                           | 8                        | 9                                  | 10                                                    | 11                        | 12                                 |
| Wheat               | Irrigated            | low yield<br>of wheat<br>in late<br>sown<br>irrigated<br>condition. | Performance<br>assessment of<br>different wheat<br>varieties under<br>late sown<br>irrigated<br>condition | 10                | UP-262                 | Yield (q/ha)                | 28.0                     | -                                  | Seed is not<br>easily<br>available in<br>local market |                           |                                    |
|                     |                      |                                                                     |                                                                                                           |                   |                        | B:C ratio                   | 1:1.44                   |                                    |                                                       |                           |                                    |
|                     |                      |                                                                     |                                                                                                           |                   | K9107                  | Yield(q/ha)                 | 42.5                     | K9107<br>was<br>found the<br>best. |                                                       |                           |                                    |
|                     |                      |                                                                     |                                                                                                           |                   |                        | B:C ratio                   | 1:2.1                    |                                    |                                                       |                           |                                    |
|                     |                      |                                                                     |                                                                                                           |                   | HUW 234                | Yield(q/ha)                 | 34.5                     |                                    |                                                       |                           |                                    |
|                     |                      |                                                                     |                                                                                                           |                   |                        | B:C ratio                   | 1:1.7                    |                                    |                                                       |                           |                                    |
|                     |                      |                                                                     |                                                                                                           |                   | HD 2643                | Yield(q/ha)                 | 36.5                     |                                    |                                                       |                           |                                    |
|                     |                      |                                                                     |                                                                                                           |                   |                        | B:C ratio                   | 1:1.8                    |                                    |                                                       |                           |                                    |

*\* No. of farmers*

| Technology Assessed / Refined |                           | *Production per unit | Net Return (Profit) in Rs. /<br>unit | BC Ratio |
|-------------------------------|---------------------------|----------------------|--------------------------------------|----------|
| 13                            |                           | 14                   | 15                                   | 16       |
| T <sub>1</sub> -              | Farmers Practice (UP 262) | 28000                | 8800                                 | 1:1.44   |
| T <sub>2</sub> -              | K9107                     | 42500                | 16600                                | 1:1.2.1  |
| T <sub>3</sub> -              | HUW 234                   | 34500                | 16960                                | 1:1.7    |
| T <sub>4</sub> -              | HD 2643                   | 36500                | 20560                                | 1:1.8    |

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

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

## J. Results of On Farm Trials

| Crop/<br>enterprise | Farming<br>situation        | Problem<br>Diagnosed                      | Title of<br>OFT                                                                | No.<br>of<br>trials* | Technology<br>Assessed | Parameters<br>of<br>assessment                 | Data on<br>the<br>parameter | Results of assessment                                                                                                                                                                                                                | Feedback<br>from the<br>farmer                                                                                                                                                                                                  | Any<br>refinement<br>done | Justification<br>for refinement |
|---------------------|-----------------------------|-------------------------------------------|--------------------------------------------------------------------------------|----------------------|------------------------|------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------|
| 1                   | 2                           | 3                                         | 4                                                                              | 5                    | 6                      | 7                                              | 8                           | 9                                                                                                                                                                                                                                    | 10                                                                                                                                                                                                                              | 11                        | 12                              |
| Ladyfinger          | Medium<br>land<br>irrigated | Low area<br>under<br>summer<br>ladyfinger | Assessment<br>of effective<br>irrigation<br>method in<br>summer<br>ladyfinger. | 08                   | T <sub>1</sub>         | Yield<br>(t/ha)                                | 10.4                        | Irrigation by surge<br>irrigation method<br>with improved layout<br>produced highest<br>yield but field water<br>use efficiency is<br>highest in skip<br>irrigation method<br>with improved field<br>layout i.e. 0.188 t/ha<br>– cm. | 1. 20% to<br>30% water<br>save due to<br>improved<br>irrigation<br>methods.<br>2. Uniform<br>distribution<br>of water due<br>to proper<br>layout of<br>field.<br>3. Some<br>inconvenient<br>to layout the<br>field<br>properly. | No                        | N.A                             |
|                     |                             |                                           |                                                                                |                      |                        | Field water<br>use<br>efficiency<br>(t/ha-cm). | 0.127                       |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |                           |                                 |
|                     |                             |                                           |                                                                                |                      | T <sub>2</sub>         | Yield<br>(t/ha)                                | 11.8                        |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |                           |                                 |
|                     |                             |                                           |                                                                                |                      |                        | Field water<br>use<br>efficiency<br>(t/ha-cm). | 0.179                       |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |                           |                                 |
|                     |                             |                                           |                                                                                |                      | T <sub>3</sub>         | Yield<br>(t/ha)                                | 10.9                        |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |                           |                                 |
|                     |                             |                                           |                                                                                |                      |                        | Field water<br>use<br>efficiency<br>(t/ha-cm). | 0.188                       |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                 |                           |                                 |

\* No. of farmers

| Technology Assessed / Refined                                                            | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|------------------------------------------------------------------------------------------|----------------------|-----------------------------------|----------|
| 13                                                                                       | 14                   | 15                                | 16       |
| T <sub>1</sub> - Traditional furrow irrigation method + traditional layout of the field. | 10.4 t/ha            | 82000                             | 1:3.14   |
| T <sub>2</sub> - Surge irrigation method + improved layout of the field                  | 11.8 t/ha            | 96000                             | 1:3.42   |
| T <sub>3</sub> - Skip irrigation method + improved layout of the field                   | 10.9 t/ha            | 87000                             | 1:3.38   |

\*Field crops – kg/ha, \* for horticultural crops = kg or t / ha, \* milk and meat – litres or kg/animal, \* for mushroom and vermi compost kg/unit area.

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

### 3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous year and popularized during 2008-09 and recommended for large scale adoption in the district

| S. No | Thematic Area*              | Technology demonstrated                                          | Details of popularization methods suggested to the Extension system                                                 | Horizontal spread of technology |                |            |
|-------|-----------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------|------------|
|       |                             |                                                                  |                                                                                                                     | No. of villages                 | No. of farmers | Area in ha |
| 1.    | Integrated crop management  | Groundnut variety TG-22 with full package of practices           | 1. Training to farmers.<br>2. Krishak Gosthi.<br>3. Time to time follow up on Helpline.<br>4. Extension literature. | 31                              | 42             | 5.5        |
| 2.    | Crop diversification        | Sesame variety Kanke safed with full package of practices        | -do-                                                                                                                | 26                              | 38             | 3.7        |
| 3.    | Crop diversification        | Black gram variety Birsa Urd -1 with full package of practices   | -do-                                                                                                                | 27                              | 38             | 5.3        |
| 4.    | Integrated crop management  | Horse gram variety Birsa Kulthi-1 with full package of practices | -do-                                                                                                                | 29                              | 30             | 3.7        |
| 5.    | Soil and water conservation | Red gram with Rhizobium culture                                  | -do-                                                                                                                | 27                              | 42             | 7.7        |
| 6.    | Crop diversification        | Niger variety Birsa Niger -1                                     | -do-                                                                                                                | -                               | -              | -          |

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

#### B (1). Details of FLDs implemented during Kharif , Summer & Rabi 2008 - 09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

| Sl. No. | Crop       | Thematic area        | Technology Demonstrated                                  | Season and year | Area (ha) |        | No. of farmers/ demonstration |    |        |       | Reasons for shortfall in achievement |
|---------|------------|----------------------|----------------------------------------------------------|-----------------|-----------|--------|-------------------------------|----|--------|-------|--------------------------------------|
|         |            |                      |                                                          |                 | Proposed  | Actual | SC                            | ST | Others | Total |                                      |
| Oilseed |            | Crop diversification | Variety IGV-91114 ,TG-22 & Birsa bold sprayed with rogar | Kharif 2009     | 5.0       | 5.0    | -                             | -  | 32     | 32    |                                      |
| 1.      | Groundnut  |                      |                                                          |                 |           |        |                               |    |        |       |                                      |
| 2.      | Sesame     | Crop diversification | Variety Kanke Safed sprayed with rogar                   | Kharif 2009     | 5.0       | 5.0    | 2                             | 9  | 13     | 24    |                                      |
| 3.      | Niger      | Crop diversification | Variety Birsa Niger-1                                    | Kharif 2009     | 2         | 2      | -                             | 3  | 24     | 27    |                                      |
| Pulses  |            | Crop diversification | Variety Uttara sprayed with media and bavestine          | Kharif 2009     | 5.0       | 5.0    | 1                             | -  | 42     | 43    |                                      |
| 1.      | Black gram |                      |                                                          |                 |           |        |                               |    |        |       |                                      |
| 2.      | Horse gram | Crop diversification | Variety Birsa Kulthi-1 sprayed with media and bavestine  | Kharif 2009     | 5         | 5      | 4                             | 4  | 16     | 24    |                                      |

|    |            |                      |                                                   |             |    |    |   |    |    |    |  |
|----|------------|----------------------|---------------------------------------------------|-------------|----|----|---|----|----|----|--|
| 3. | Red gram   | Crop diversification | Use of Rhizobium culture                          | Kharif 2009 | 10 | 10 | - | 11 | 35 | 46 |  |
| 4. | Green Gram | Crop diversification | Variety PDM -139 sprayed with media and bavestine | Kharif 2009 | 2  | 2  | - | 5  | 17 | 22 |  |

|               |                               |                                |                                              |             |   |      |   |   |    |    |  |
|---------------|-------------------------------|--------------------------------|----------------------------------------------|-------------|---|------|---|---|----|----|--|
| <b>Cereal</b> |                               | Integrated nutrient management | Variety BPT 5204 with N:P:K:: 50:50:50 Kg/ha | Kharif 2009 | - | 2.5  | - | - | 11 | 11 |  |
| 1.            | Rice                          |                                |                                              |             |   |      |   |   |    |    |  |
| 2.            | Rhizobium culture in Red gram | Integrated crop management     | Inoculation of Red gram seeds with Rhizobium | Kharif 2009 | - | 5.25 | 2 | 9 | 32 | 43 |  |

### Details of farming situation

| Crop       | Season      | Farming situation (RF/Irrigated) | Soil type     | Status of soil |        |      | Previous crop      | Sowing date       | Harvest date  | Seasonal rainfall (mm) | No. of rainy days |
|------------|-------------|----------------------------------|---------------|----------------|--------|------|--------------------|-------------------|---------------|------------------------|-------------------|
|            |             |                                  |               | N              | P      | K    |                    |                   |               |                        |                   |
| Groundnut  | Kharif 2009 | Upland rainfed                   | Red lateritic | Low            | Medium | High | Fallow / vegetable | 20-25.07.09       | 22-27.11.09   | 381.6                  | 43                |
| Sesame     | Kharif 2009 | Upland rainfed                   | Red lateritic | L              | M      | M    | Fallow             | 19-26.07.09       | 12-15.10.09   | 357                    | 39                |
| Black gram | Kharif 2009 | Upland rainfed                   | Red lateritic | L              | M      | H    | Fallow             | 21-30.07.09       | 25-28.10.09   | 387.8                  | 45                |
| Horse gram | Kharif 2009 | Upland rainfed                   | Red lateritic | Low            | Low    | Low  | Fallow             | 20-25.08.09       | 10-12.12.09   | 214.1                  | 25                |
| Red gram   | Kharif 2009 | Upland rainfed                   | Red lateritic | Low            | L      | L    | Fallow             | 22-.06.09-7.07.09 | 10-25.03.2010 | 577.9                  | 73                |
| Niger      | Kharif 2009 | Upland rainfed                   | Red lateritic | L              | L      | L    | Fallow             | 29.08.09-15.09.09 | 20-27.11.09   | 298.3                  | 27                |
| Wheat      | Rabi2008-09 | Medium land irrigated            | Sandy loam    | L              | L      | L    | Paddy              | 04-08.12.08       | 05-09.4.09    | 20.6                   | 4                 |
| Gram       | Rabi2008-09 | Upland rainfed                   | Red lateritic | L              | L      | L    | Paddy              | 19-22.10.08       | 10-15.03.09   | 45.8                   | 8                 |
| Mustard    | Rabi2008-09 | Upland rainfed                   | Red lateritic | L              | L      | L    | Sesame             | 04-07.11.08       | 20-23.02.09   | 9.6                    | 2                 |
| Rice       | Kharif 09   | Low land rainfed                 | Silty loam    | L              | M      | L    | Fallow             | 28-07.09-30.07.09 | 11.15.12.09   | 309.7                  | 31                |

### Performance of FLD (Rabi 2009-10, Summer 2009 Kharif 2009)

| Sl.No. | Crop          | Technology Demonstrated                                       | Variety                       | No. of Farmers | Area (ha.) | Demo. Yield Qtl/ha |      |       | Yield of local Check Qtl/ha | Increase in yield (%) | Data on parameter in relation to technology demonstrated |                    |
|--------|---------------|---------------------------------------------------------------|-------------------------------|----------------|------------|--------------------|------|-------|-----------------------------|-----------------------|----------------------------------------------------------|--------------------|
|        |               |                                                               |                               |                |            | H                  | L    | A     |                             |                       | Demo                                                     | Local              |
| 1      | 2             | 3                                                             | 4                             | 5              | 6          | 7                  | 8    | 9     | 10                          | 11                    | 12                                                       | 13                 |
| 1.     | Groundnut     | Variety IGV-91114, TG-22 & Birsa bold spread with rogar       | IGV-91114, TG-22 & Birsa bold | 32             | 5          | 11.5               | 8.2  | 11.08 | 8.1                         | 37                    | Yield & net profit                                       | Yield & net profit |
| 2.     | Sesame        | Variety Kanke Safed spread with rogar                         | Kanke safed                   | 24             | 5          | 4.3                | 2.3  | 2.92  | 2.1                         | 39                    | Yield & net profit                                       | Yield & net profit |
| 3.     | Black gram    | Variety Uttara spread with media and bavistin                 | Uttara                        | 43             | 5          | 8.4                | 5.6  | 6.58  | 5.1                         | 29                    | Yield & net profit                                       | Yield & net profit |
| 4.     | Green Gram    | PDM-139 sprayed with media & bavistin                         | PDM-139                       | 22             | 2          | 5.2                | 3.2  | 4.92  | 3.6                         | 37                    | Yield & net profit                                       | Yield & net profit |
| 5.     | Horse gram    | Variety Birsa Kulthi-1 spread with media and bavistin         | Birsa Kulthi-1                | 24             | 5          | 5.6                | 4.0  | 5.20  | 3.1                         | 68                    | Yield & net profit                                       | Yield & net profit |
| 6.     | Red gram      | Variety Birsa Arhar-1 and Asha spread with media and bavistin | Birsa Arhar-1 and Asha        | 46             | 10         | 7.24               | 4.96 | 6.34  | 5.2                         | 21.9                  | Yield & net profit                                       | Yield & net profit |
| 7.     | Niger         | Variety Birsa Niger-1                                         | Birsa Niger-1                 | 27             | 2          | 4.0                | 3.2  | 3.7   | 2.1                         | 76.2                  | Yield & net profit                                       | Yield & net profit |
| 8.     | Rice          | Variety BPT-5204                                              | BPT-5204                      | 11             | 2.5        | 42                 | 32.5 | 40.65 | 36                          | 13                    | Yield & net profit                                       | Yield & net profit |
| 9.     | Brinjal       | Variety Swarna shobha                                         | Swarna shobha                 | 41             | 0.53       | 450                | 350  | 410.8 | 345                         | 19.1                  | Yield & net profit                                       | Yield & net profit |
| 10.    | Tomato hybrid | Variety Swarn Sampada                                         | Swarn Sampada                 | 70             | 3          | 850                | 700  | 795   | 452                         | 75.88                 | Yield & net profit                                       | Yield & net profit |
| 11.    | Wheat         | Variety K-9107                                                | K-9107                        | 8              | 1.0        | 24.0               | 14.3 | 19.74 | 16.2                        | 21.85                 | Yield & net profit                                       | Yield & net profit |
| 12.    | Gram          | Variety Pusa 256 sprayed with media and bavistin              | Pusa 256                      | 5              | 1.0        | 10.2               | 7.8  | 9.5   | 8.2                         | 18.90                 | Yield & net profit                                       | Yield & net profit |
| 13.    | Mustard       | Variety Shivani sprayed with Rogor.                           | Shivani                       | 20             | 6.55       | 12.4               | 8.1  | 10.98 | 8.8                         | 25.79                 | Yield & net profit                                       | Yield & net profit |
| 14.    | Lentil        | Variety PL-406 sprayed with media and bavistin                | PL-406                        | 23             | 5          | 8.5                | 5.3  | 6.8   | 5.3                         | 28.3                  | Yield & net profit                                       | Yield & net profit |
| 15.    | Toria         | Variety JD-6 sprayed with                                     | JD-6                          | 36             | 5          | 4.1                | 3.6  | 3.8   | 3.2                         | 18.8                  | Yield & net profit                                       | Yield & net profit |

|     |         |                                    |        |    |   |     |     |     |     |    |                    |                    |
|-----|---------|------------------------------------|--------|----|---|-----|-----|-----|-----|----|--------------------|--------------------|
|     |         | Rogor.                             |        |    |   |     |     |     |     |    |                    |                    |
| 16. | Linseed | Variety Subhra sprayed with Rogor. | Subhra | 29 | 5 | 6.8 | 5.7 | 6.4 | 5.2 | 23 | Yield & net profit | Yield & net profit |

**Economic Impact (continuation of previous table) (Rabi 2009-10, Summer 2009& Kharif 2009)**

| Average Cost of cultivation (Rs./ha) |             | Average Gross Return (Rs./ha) |             | Average Net Return (Profit) (Rs./ha) |             | Benefit-Cost Ratio (Gross Return / Gross Cost) |             |
|--------------------------------------|-------------|-------------------------------|-------------|--------------------------------------|-------------|------------------------------------------------|-------------|
| Demonstration                        | Local Check | Demonstration                 | Local Check | Demonstration                        | Local Check | Demonstration                                  | Local Check |
| 14                                   | 15          | 16                            | 17          | 18                                   | 19          | 20                                             | 21          |
| 22000                                | 17000       | 27700                         | 20250       | 5700                                 | 3250        | 1:1.26                                         | 1:1.19      |
| 8000                                 | 6000        | 11680                         | 8400        | 3680                                 | 2400        | 1:1.46                                         | 1:1.40      |
| 9711                                 | 7300        | 16450                         | 12750       | 6739                                 | 5450        | 1:1.69                                         | 1:1.74      |
| 10300                                | 6796        | 14760                         | 10800       | 4460                                 | 4004        | 1:1.43                                         | 1:1.59      |
| 7830                                 | 5080        | 10400                         | 6200        | 2570                                 | 1120        | 1:1.33                                         | 1:1.22      |
| 11850                                | 11800       | 19020                         | 15600       | 7170                                 | 3800        | 1:1.60                                         | 1:1.32      |
| 6100                                 | 4500        | 8880                          | 5040        | 2780                                 | 450         | 1:1.46                                         | 1:1.20      |
| 15920                                | 16100       | 42617                         | 37800       | 26697                                | 21700       | 1:2.68                                         | 1:2.35      |
| 43100                                | 42600       | 123240                        | 103500      | 80140                                | 60900       | 1:2.86                                         | 1:2.43      |
| 47100                                | 46100       | 158960                        | 127209      | 111860                               | 81120       | 1:3.37                                         | 1:2.76      |
| 15000                                | 14000       | 25688                         | 21040       | 10688                                | 7040        | 1:1.71                                         | 1:1.50      |
| 11500                                | 9400        | 23750                         | 20500       | 12250                                | 11100       | 1:2.06                                         | 1:2.18      |
| 10700                                | 9500        | 23058                         | 18480       | 12358                                | 8980        | 1:2.15                                         | 1:1.94      |
| 9950                                 | 8200        | 17000                         | 13250       | 7050                                 | 5050        | 1:1.71                                         | 1:1.62      |
| 6500                                 | 6000        | 7980                          | 6720        | 1480                                 | 720         | 1:1.23                                         | 1:1.12      |
| 5000                                 | 4500        | 8960                          | 7280        | 3960                                 | 2780        | 1:1.79                                         | 1:1.62      |

Under pigeon pea, only Rhizobium culture was treated with seeds having cost only Rs 50/hect. Which increased the net return Rs. 7170/hect over control (Rs. 3800/hect)

In Rice demonstration BGA was applied @ 10kg/hect with deduction in N application by 30kg/hect which saved Rs 180/hect. And produced higher net return of Rs. 26617/hect. Over control Rs22800.

**Analytical Review of component demonstrations (details of each component for rainfed / irrigated)**



**c. Details of FLD on Enterprises**

**(i) Farm Implements**

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

*\* Field efficiency, labour saving etc.*

**(ii) Livestock Enterprises**

| Enterprise | Breed | No. of farmers | No. of animals, poultry birds etc. | Performance parameters / indicators | * Data on parameter in relation to technology demonstrated |             | % change in the parameter | Remarks |
|------------|-------|----------------|------------------------------------|-------------------------------------|------------------------------------------------------------|-------------|---------------------------|---------|
|            |       |                |                                    |                                     | Demon.                                                     | Local check |                           |         |
|            |       |                |                                    |                                     |                                                            |             |                           |         |

*\* Milk production, meat production, egg production, reduction in disease incidence etc.*

**(iii) Other Enterprises**

| Enterprise    | Variety/<br>breed/Species/others | No. of farmers | No. of Units | Performance parameters / indicators | Data on parameter in relation to technology demonstrated |             | % change in the parameter | Remarks |
|---------------|----------------------------------|----------------|--------------|-------------------------------------|----------------------------------------------------------|-------------|---------------------------|---------|
|               |                                  |                |              |                                     | Demon.                                                   | Local check |                           |         |
| Mushroom      |                                  |                |              |                                     |                                                          |             |                           |         |
| Apiary        |                                  |                |              |                                     |                                                          |             |                           |         |
| Sericulture   |                                  |                |              |                                     |                                                          |             |                           |         |
| Vermi compost |                                  |                |              |                                     |                                                          |             |                           |         |

### 3.3 Achievements on Training (Including the sponsored and FLD training programmes):

#### A) ON Campus

| Thematic Area                                | No. of Courses | No. of Participants |     |     |    |    |     |    |    |    |             |     |     |
|----------------------------------------------|----------------|---------------------|-----|-----|----|----|-----|----|----|----|-------------|-----|-----|
|                                              |                | Others              |     |     | SC |    |     | ST |    |    | Grand Total |     |     |
|                                              |                | M                   | F   | T   | M  | F  | T   | M  | F  | T  | M           | F   | T   |
| <b>Crop Production</b>                       |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Weed Management                              |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Resource Conservation Technologies           |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Cropping Systems                             | 8              | 181                 | 6-  | 187 | -  | -  | -   | 7  | 3  | 10 | 188         | 9   | 197 |
| Crop Diversification                         |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Integrated Farming                           | 2              | 35                  | -   | 35  | -  | -  | -   | 15 | -  | 15 | 50          | -   | 50  |
| Micro Irrigation/Irrigation                  |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Seed production                              |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Nursery management                           |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Integrated Crop Management                   |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Soil and Water Conservation                  |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Integrated Nutrient Management               |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Production of organic inputs                 |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| <b>Horticulture</b>                          |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| <b>a) Vegetable Crops</b>                    |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Production of low value and high volume crop | 31             | 218                 | 353 | 571 | 54 | 70 | 124 | 62 | 34 | 96 | 334         | 457 | 791 |
| Off-season vegetables                        |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Nursery raising                              |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Exotic vegetables                            |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Export potential vegetables                  |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Grading and standardization                  |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Protective cultivation                       |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| <b>b) Fruits</b>                             |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Training and Pruning                         |                |                     |     |     |    |    |     |    |    |    |             |     |     |
| Layout and Management of Orchards            | 1              | 12                  | -   | 12  | 4  | 1  | 5   | 7  | -  | 7  | 23          | 1   | 24  |
| 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        | 1              | 15                  | 3   | 18  | -  | -  | -   | 2  | -  | 2  | 17          | 3   | 20  |
| Propagation techniques of Ornamental Plants  | 3              | 4                   | 50  | 54  | -  | -  | -   | -  | -  | -  | 4           | 50  | 54  |
| <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>Soil Health and Fertility Management</b>                          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil fertility management                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated water management                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Integrated nutrient management                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management of Problematic soils                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Micro nutrient deficiency in crops                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nutrient use efficiency                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Balanced use of fertilizers                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Soil and water testing                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Livestock Production and Management</b>                           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dairy Management                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry Management                                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Piggery Management                                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Goat Management                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Animal Disease Management                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Feed and Fodder technology                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>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                          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Processing and cooking                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Storage loss minimization techniques                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Value addition                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women empowerment                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location specific drudgery production                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts                                                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women and child care                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Agril. Engineering</b>                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Farm machinery and its maintenance                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 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                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rain Water Harvesting                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                                                     |   |    |     |    |    |   |    |   |   |   |    |    |    |
|-----------------------------------------------------|---|----|-----|----|----|---|----|---|---|---|----|----|----|
| <b>Plant Protection</b>                             |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Integrated Pest Management                          |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Integrated Disease Management                       |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Bio-control of pests and diseases                   |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Production of bio control agents and bio pesticides |   |    |     |    |    |   |    |   |   |   |    |    |    |
| <b>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>Production of Inputs at site</b>                 |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Seed Production                                     | 2 | 24 | 2   | 26 | -  | - | -  | 7 | 1 | 8 | 31 | 3  | 34 |
| 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>Capacity Building and Group Dynamics</b>         |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Leadership development                              |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Group dynamics                                      | 2 | 26 | -   | 26 | 3  | - | 3  | - | - | - | 29 | -  | 29 |
| Formation and Management of SHGs                    | 3 | 1  | 517 | 52 | -  | - | -  | - | 4 | 4 | 1  | 55 | 56 |
| Mobilization of social capital                      | 2 | 24 | -   | 24 | 20 | - | 20 | 6 | 3 | 9 | 50 | 3  | 53 |
| Entrepreneurial development of farmers/youths       |   |    |     |    |    |   |    |   |   |   |    |    |    |
| WTO and IPR issue                                   |   |    |     |    |    |   |    |   |   |   |    |    |    |
| <b>Agro-forestry</b>                                |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Production technologies                             |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Nursery management                                  |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Integrated Farming Systems                          |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Others (Pl. specify)                                |   |    |     |    |    |   |    |   |   |   |    |    |    |
| <b>TOTAL</b>                                        |   |    |     |    |    |   |    |   |   |   |    |    |    |
| <b>Rural Youth</b>                                  |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Mushroom Production                                 | 1 | 12 | -   | 12 | 2  | - | 2  | 7 | - | 7 | 21 | -  | 21 |
| Bee-keeping                                         |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Integrated farming                                  | 1 | 9  | 8   | 17 | -  | 4 | 4  | - | - | - | 9  | 12 | 21 |
| Seed production                                     |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Production of organic inputs                        |   |    |     |    |    |   |    |   |   |   |    |    |    |
| Integrated Farming                                  |   |    |     |    |    |   |    |   |   |   |    |    |    |

|                                                         |          |           |           |           |          |          |          |          |          |          |           |           |            |
|---------------------------------------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|------------|
| Planting material production                            |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Vermi-culture                                           | 1        | 20        | 3         | 23        | 2        | -        | 2        | -        | -        | -        | 22        | 3         | 25         |
| Sericulture                                             |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Protected cultivation of vegetable crops                |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Commercial fruit/Flower production                      |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Repair and maintenance of farm machinery and implements |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Nursery Management of Horticulture crops                |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Irrigation and water management                         |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Training and pruning of orchards                        |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Value addition                                          |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Production of quality animal products                   |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Dairying/ para extension worker                         |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Sheep and goat rearing                                  | 1        | -         | -         | -         | 10       | -        | 10       | -        | -        | -        | 10        | -         | 10         |
| Quail farming                                           |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Piggery                                                 |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Rabbit farming                                          |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Poultry production                                      |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Ornamental fisheries                                    |          |           |           |           |          |          |          |          |          |          |           |           |            |
| 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                                 | 2        | -         | 33        | 33        | -        | -        | -        | -        | -        | --       | -         | 33        | 33         |
| Seed Production                                         |          |           |           |           |          |          |          |          |          |          |           |           |            |
| <b>TOTAL</b>                                            | <b>5</b> | <b>41</b> | <b>44</b> | <b>85</b> | <b>4</b> | <b>4</b> | <b>8</b> | <b>7</b> | <b>-</b> | <b>7</b> | <b>52</b> | <b>48</b> | <b>100</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                        | 1        | -         | 15        | 15        |          | -        | -        | -        | -        | -        | -         | 15        | 15         |
| Group Dynamics and farmers organization                 |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Information networking among farmers                    |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Capacity building for ICT application                   |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Care and maintenance of farm machinery and implements   |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Management in farm animals                              |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Livestock feed and fodder production                    |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Household food security                                 |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Women and Child care                                    |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Low cost and nutrient efficient diet designing          |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Production and use of organic inputs                    | 2        | 29        | 19        | 48        | 1        | -        | 1        | -        | 1        | 1        | 30        | 20        | 50         |
| Gender mainstreaming through SHGs                       |          |           |           |           |          |          |          |          |          |          |           |           |            |
| Productivity enhancement in vegetable crops             |          |           |           |           |          |          |          |          |          |          |           |           |            |

|              |          |           |           |           |          |          |          |          |          |          |           |           |           |
|--------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| <b>Total</b> | <b>3</b> | <b>29</b> | <b>34</b> | <b>63</b> | <b>1</b> | <b>-</b> | <b>1</b> | <b>-</b> | <b>1</b> | <b>1</b> | <b>30</b> | <b>35</b> | <b>65</b> |
|--------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|

## B- Off Campus

| Thematic Area                                | No. of Courses | No. of Participants |     |     |    |   |    |    |    |     |             |     |     |
|----------------------------------------------|----------------|---------------------|-----|-----|----|---|----|----|----|-----|-------------|-----|-----|
|                                              |                | Others              |     |     | SC |   |    | ST |    |     | Grand Total |     |     |
|                                              |                | M                   | F   | T   | M  | F | T  | M  | F  | T   | M           | F   | T   |
| <b>Crop Production</b>                       |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Weed Management                              |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Resource Conservation Technologies           |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Cropping Systems                             | 9              | 518                 | 187 | 708 | 56 | 1 | 57 | 91 | 30 | 121 | 745         | 218 | 963 |
| Crop Diversification                         | 5              | 71                  | 9   | 80  | 36 | 3 | 39 | 2  | -  | 2   | 109         | 12  | 121 |
| Integrated Farming                           | 3              | 75                  | -   | 75  | 1  | - | 1  | 2  | -  | 2   | 78          | -   | 78  |
| Micro Irrigation/Irrigation                  |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Seed production                              |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Nursery management                           |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Integrated Crop Management                   |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Soil and Water Conservation                  |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Integrated Nutrient Management               |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Production of organic inputs                 |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| <b>Horticulture</b>                          |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| <b>a) Vegetable Crops</b>                    |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Production of low value and high volume crop | 3              | 32                  | -   | 32  | 3  | - | 3  | 23 | 3  | 26  | 58          | 3   | 61  |
| Off-season vegetables                        |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Nursery raising                              |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Exotic vegetables                            |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Export potential vegetables                  |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Grading and standardization                  |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| Protective cultivation                       |                |                     |     |     |    |   |    |    |    |     |             |     |     |
| <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>Soil Health and Fertility Management</b>                          |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Soil fertility management                                            |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Integrated water management                                          |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Integrated nutrient management                                       |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Production and use of organic inputs                                 |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Management of Problematic soils                                      |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Micro nutrient deficiency in crops                                   |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Nutrient use efficiency                                              |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Balanced use of fertilizers                                          |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Soil and water conservation                                          |   |    |    |    |   |    |    |   |   |   |    |    |    |
| <b>Livestock Production and Management</b>                           |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Dairy Management/ Disease Management                                 |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Poultry Management                                                   |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Piggery Management                                                   |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Goat Management                                                      |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Animal Disease Management                                            |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Feed and Fodder technology                                           |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Production of quality animal products                                |   |    |    |    |   |    |    |   |   |   |    |    |    |
| <b>Home Science/Women empowerment</b>                                |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Household food security by kitchen gardening and nutrition gardening | 2 | -  | 35 | 35 |   | -  | -  | - | - | - | -  | 35 | 35 |
| Design and development of low/minimum cost diet                      |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Designing and development for high nutrient efficiency diet          | 1 | -  | 14 | 14 |   |    | -  | - | - | - | -  | 14 | 14 |
| Minimization of nutrient loss in processing                          |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Processing and cooking                                               |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Gender mainstreaming through SHGs                                    |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Storage loss minimization techniques                                 | 3 | -  | 39 | 39 | - | 27 | 27 |   | - | - | -  | 66 | 66 |
| Value addition                                                       | 1 | -  | 16 | 16 |   | -  | -  | - | - | - | -  | 16 | 16 |
| Women empowerment                                                    |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Location specific drudgery production                                |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Rural Crafts                                                         | 1 | -  | 18 | 18 | - | -  | -  | - | - | - | -  | 18 | 18 |
| Women and child care                                                 |   |    |    |    |   |    |    |   |   |   |    |    |    |
| <b>Agril. Engineering</b>                                            |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Farm machinery and its maintenance                                   |   |    |    |    |   |    |    |   |   |   |    |    |    |
| 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                            |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Rain water harvesting                                                |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Post Harvest Technology                                              |   |    |    |    |   |    |    |   |   |   |    |    |    |
| <b>Plant Protection</b>                                              |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Integrated Pest Management                                           | 1 | 23 | -  | 23 |   | -  | -  | - | - | - | 23 | -  | 23 |
| Integrated Disease Management                                        |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Bio-control of pests and diseases                                    |   |    |    |    |   |    |    |   |   |   |    |    |    |
| Production of bio control agents and bio pesticides                  |   |    |    |    |   |    |    |   |   |   |    |    |    |
| <b>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>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>Capacity Building and Group Dynamics</b>             |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Leadership development                                  |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Group dynamics                                          | 1 | 18 | -  | 18 | 8 | - | 8 | -  | -  | -  | 26 | -  | 26 |
| Formation and Management of SHGs                        | 4 | -  | 26 | 26 | - | - | - | 29 | 38 | 67 | 29 | 64 | 93 |
| Mobilization of social capital                          | 1 | 30 | -  | 30 |   | - | - | -- | -  | -  | 30 | -  | 30 |
| Entrepreneurial development of farmers/youths           |   |    |    |    |   |   |   |    |    |    |    |    |    |
| WTO and IPR issue                                       |   |    |    |    |   |   |   |    |    |    |    |    |    |
| <b>Agro-forestry</b>                                    |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Production technologies                                 |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Nursery management                                      |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Integrated Farming Systems                              |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Others (Pl. specify)                                    |   |    |    |    |   |   |   |    |    |    |    |    |    |
| <b>TOTAL</b>                                            |   |    |    |    |   |   |   |    |    |    |    |    |    |
| <b>(B) RURAL YOUTH</b>                                  |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Mushroom Production                                     |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Bee-keeping                                             |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Integrated farming                                      |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Seed production                                         |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Production of organic inputs                            |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Integrated Farming                                      |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Planting material production                            |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Vermi-culture                                           |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Sericulture                                             |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Protected cultivation of vegetable crops                |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Commercial fruit production                             |   |    |    |    |   |   |   |    |    |    |    |    |    |
| Repair and maintenance of farm machinery and implements |   |    |    |    |   |   |   |    |    |    |    |    |    |

|                                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Nursery Management of Horticulture crops              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Training and pruning of orchards                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Value addition                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production of quality animal products                 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dairying                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep and goat rearing                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quail farming                                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Piggery                                               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rabbit farming                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Poultry production                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ornamental fisheries                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Composite fish culture                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Freshwater prawn culture                              |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shrimp farming                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pearl culture                                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cold water fisheries                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fish harvest and processing technology                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fry and fingerling rearing                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small scale processing                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Post Harvest Technology                               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tailoring and Stitching                               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rural Crafts                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>TOTAL</b>                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management in farm animals                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Livestock feed and fodder production                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Household food security                               |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Women and Child care                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Low cost and nutrient efficient diet designing        |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Production and use of organic inputs                  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender mainstreaming through SHGs                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Productivity enhancement in vegetable crops           |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Total</b>                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Consolidated of on campus & off campus training

| Thematic Area                                | No. of Course | No. of Participants |     |     |    |    |     |    |    |     |             |     |      |
|----------------------------------------------|---------------|---------------------|-----|-----|----|----|-----|----|----|-----|-------------|-----|------|
|                                              |               | Others              |     |     | SC |    |     | ST |    |     | Grand Total |     |      |
|                                              |               | M                   | F   | T   | M  | F  | T   | M  | F  | T   | M           | F   | T    |
| <b>Crop Production</b>                       |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Weed Management                              |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Resource Conservation Technologies           |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Cropping Systems                             | 17            | 685                 | 193 | 888 | 70 | 1  | 71  | 98 | 33 | 131 | 853         | 227 | 1080 |
| Crop Diversification                         | 5             | 71                  | 9   | 80  | 36 | 3  | 39  | 2  | -  | 2   | 109         | 12  | 121  |
| Integrated crop management                   | 5             | 110                 | -   | 110 | 1  | -  | 1   | 17 | -  | 17  | 128         | -   | 128  |
| Micro Irrigation/Irrigation                  |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Seed production                              |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Nursery management                           |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Integrated Nutrient Management               |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Fodder production                            |               |                     |     |     |    |    |     |    |    |     |             |     |      |
|                                              |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Production of organic inputs                 |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| <b>Horticulture</b>                          |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| <b>a) Vegetable Crops</b>                    |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Production of low value and high volume crop | 33            | 267                 | 324 | 591 | 57 | 70 | 127 | 85 | 36 | 121 | 392         | 430 | 822  |
| Off-season vegetables                        |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Nursery raising                              |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Exotic vegetables                            |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Export potential vegetables                  |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Grading and standardization                  |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Protective cultivation                       |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| <b>b) Fruits</b>                             |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Training and Pruning                         |               |                     |     |     |    |    |     |    |    |     |             |     |      |
| Layout and Management of Orchards            | 1             | 12                  | -   | 12  | 4  | 1  | 5   | 7  | -  | 7   | 23          | 1   | 24   |
| 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        | 1             | 15                  | 3   | 18  | -  | -  | -   | 2  | -  | 2   | 17          | 3   | 20   |
| Propagation techniques of Ornamental Plants  | 3             | 4                   | 50  | 54  | -  | -  | -   | -  | -  | -   | 4           | 50  | 54   |
| <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>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                                              |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Balanced use of fertilizers                                          |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Soil and water testing                                               |   |    |    |    |   |    |    |    |   |   |   |    |      |
| <b>Livestock Production and Management</b>                           |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Dairy Management                                                     |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Poultry Management                                                   |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Piggery Management                                                   |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Goatry Management                                                    |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Disease Management                                                   |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Feed management                                                      |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Production of quality animal products                                |   |    |    |    |   |    |    |    |   |   |   |    |      |
| <b>Home Science/Women empowerment</b>                                |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Household food security by kitchen gardening and nutrition gardening | 2 | -  | 35 | 35 | - | -  | -  | -  | - | - | - | 35 | 35   |
| Design and development of low/minimum cost diet                      |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Designing and development for high nutrient efficiency diet          | 1 | -  | 14 | 14 | - | -  | -  | -  | - | - | - | 14 | 14   |
| Minimization of nutrient loss in processing                          |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Processing and cooking                                               |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Gender mainstreaming through SHGs                                    |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Storage loss minimization techniques                                 | 3 | -  | 39 | 39 | - | 27 | 27 | -  | - | - | - | 66 | 66   |
| Value addition                                                       | 1 | -  | 15 | 15 | - | -  | -  | -- | - | - | - | 15 | 15   |
| Women empowerment                                                    | 1 | -  | 16 | 16 | - | -  | -- | -  | - | - | - | 16 | 16   |
| Location specific drudgery production                                |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Rural Crafts                                                         | 1 | -  | 18 | 18 |   | -  | -  | -  | - | - | - | 18 | 18   |
| Women and child care                                                 |   |    |    |    |   |    |    |    |   |   |   |    |      |
| <b>Agril. Engineering</b>                                            |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Farm machinery and its maintenance                                   |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Installation and maintenance of micro irrigation systems             |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Use of Plastics in farming practices                                 |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Production of small tools and implements                             |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Rain water harvesting                                                |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Repair and maintenance of farm machinery and implements              |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Small scale processing and value addition                            |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Post Harvest Technology                                              |   |    |    |    |   |    |    |    |   |   |   |    |      |
| <b>Plant Protection</b>                                              |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Integrated Pest Management                                           | 1 | 23 | -  | 23 | - | -  | -  | -  | - | - | - | 23 | - 23 |
| Integrated Disease Management                                        |   |    |    |    |   |    |    |    |   |   |   |    |      |
| Bio-control of pests and diseases                                    |   |    |    |    |   |    |    |    |   |   |   |    |      |

|                                                     |   |    |    |    |    |   |    |    |    |    |    |     |     |
|-----------------------------------------------------|---|----|----|----|----|---|----|----|----|----|----|-----|-----|
| Production of bio control agents and bio pesticides |   |    |    |    |    |   |    |    |    |    |    |     |     |
| <b>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>Production of Inputs at site</b>                 |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Seed Production                                     | 2 | 24 | 2  | 16 | -  | - | -  | 7  | 1  | 8  | 31 | 3   | 34  |
| 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>Capacity Building and Group Dynamics</b>         |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Leadership development                              |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Group dynamics                                      | 2 | 34 | -  | 34 | 8  | - | 8  | -  | -  | -  | 42 | -   | 42  |
| Formation and Management of SHGs                    | 5 | 1  | 66 | 67 | -  | - | -  | 29 | 40 | 69 | 30 | 106 | 136 |
| Mobilization of social capital                      | 3 | 54 | -  | 54 | 20 | - | 20 | 6  | 3  | 9  | 80 | 3   | 83  |
| Entrepreneurial development of farmers/youths       |   |    |    |    |    |   |    |    |    |    |    |     |     |
| WTO and IPR issue                                   |   |    |    |    |    |   |    |    |    |    |    |     |     |
| <b>Agro-forestry</b>                                |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Production technologies                             |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Nursery management                                  |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Integrated Farming Systems                          |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Others (Pl. specify)                                |   |    |    |    |    |   |    |    |    |    |    |     |     |
| <b>TOTAL</b>                                        |   |    |    |    |    |   |    |    |    |    |    |     |     |
| <b>(B) RURAL YOUTH</b>                              |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Mushroom Production                                 | 1 | 12 | -  | 12 | 2  | - | 2  | 7  | -  | 7  | 21 | -   | 21  |
| Bee-keeping                                         |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Integrated farming                                  | 1 | 9  | 8  | 17 | -  | 4 | 4  | -  | -  | -  | 9  | 12  | 21  |
| Vegetable Production                                |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Seed production                                     |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Production of organic inputs                        |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Integrated Farming                                  |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Planting material production                        |   |    |    |    |    |   |    |    |    |    |    |     |     |
| Vermi-culture                                       | 1 | 20 | 3  | 23 | 2  | - | 2  | -  | -  | -  | 22 | 3   | 25  |
| Sericulture                                         |   |    |    |    |    |   |    |    |    |    |    |     |     |

|                                                         |          |           |           |           |          |          |          |          |           |           |           |           |           |
|---------------------------------------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| Protected cultivation of vegetable crops                |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Commercial flower production                            |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Repair and maintenance of farm machinery and implements |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Nursery Management of Horticulture crops                |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Training and pruning of orchards                        |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Value addition                                          |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Production of quality animal products                   |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Dairying                                                |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Sheep and goat rearing                                  | 1        | -         | -         | -         | 10       | -        | 10       | -        | -         | -         | 10        | -         | 10        |
| Quail farming                                           |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Piggery                                                 |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Rabbit farming                                          |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Poultry production                                      |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Ornamental fisheries                                    |          |           |           |           |          |          |          |          |           |           |           |           |           |
| 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                                 | 2        | -         | 33        | 33        | -        | -        | -        | -        | -         | -         | -         | 33        | 33        |
| Rural Crafts                                            |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Seed Production                                         |          |           |           |           |          |          |          |          |           |           |           |           |           |
| <b>TOTAL</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                        | 1        | -         | 15        | 15        | -        | -        | -        | -        | -         | -         | -         | 15        | 15        |
| Group Dynamics and farmers organization                 |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Information networking among farmers                    |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Capacity building for ICT application                   |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Care and maintenance of farm machinery and implements   |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Management in farm animals                              |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Livestock feed and fodder production                    |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Household food security                                 |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Women and Child care                                    |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Low cost and nutrient efficient diet designing          |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Production and use of organic inputs                    | 3        | 29        | 21        | 50        | 1        | -        | 1        | -        | 15        | 15        | 30        | 36        | 66        |
| Gender mainstreaming through SHGs                       |          |           |           |           |          |          |          |          |           |           |           |           |           |
| Productivity enhancement in vegetable crops             |          |           |           |           |          |          |          |          |           |           |           |           |           |
| <b>Total</b>                                            | <b>4</b> | <b>29</b> | <b>36</b> | <b>65</b> | <b>1</b> | <b>-</b> | <b>1</b> | <b>-</b> | <b>15</b> | <b>15</b> | <b>30</b> | <b>51</b> | <b>81</b> |

Note: Please furnish the details of training programmes as Annexure in the proforma given below

| Date            | Title of training                                      | Clien<br>tele | Dura<br>tion /<br>days | Venue | Number of participants |    |    |      |   |    |      |    |    | Total No of<br>participants |    |    |
|-----------------|--------------------------------------------------------|---------------|------------------------|-------|------------------------|----|----|------|---|----|------|----|----|-----------------------------|----|----|
|                 |                                                        |               |                        |       | O C                    |    |    | S. C |   |    | S.T. |    |    |                             |    |    |
|                 |                                                        |               |                        |       | M                      | F  | T  | M    | F | T  | M    | F  | T  | M                           | F  | T  |
| 16.02.10        | Formation of Kisan Club                                | PF            | 1                      | On    | 16                     | -  | 16 | -    | - | -  | -    | -  | -  | 16                          | -  | 16 |
| 21.02.10        | Improved Cultural<br>practices of Summer<br>Crops      | Pf            | 1                      | ON    | 17                     | -  | 17 | -    | - | -  | 3    | -  | 3  | 20                          | -  | 20 |
| 17-<br>23.02.10 | Vegetable production<br>Techniques                     | PF            | 7                      | ON    | 2                      | 28 | 30 | -    | - | -  | -    | -  | -  | 2                           | 28 | 30 |
| 17-<br>23.02.10 | Vegetable production<br>Techniques                     | PF            | 7                      | ON    | 8                      | 18 | 26 | -    | 2 | 2  | 2    | -  | 2  | 10                          | 20 | 30 |
| 24.02.10        | Formation Of SHG<br>Groups                             | FW            | 1                      | ON    | 1                      | 11 | 12 | -    | - | -  | -    | 2  | 2  | 1                           | 13 | 14 |
| 25.02.10        | Formation of Kisan Club                                | PF            | 1                      | On    | 10                     | -  | 10 | 3    | - | 3  | -    | -  | -  | 13                          | -  | 13 |
| 02.03.10        | Improved cultivation of<br>Moog (Green gram)           | PF            | 1                      | Off   | -                      | -  | -  | 22   | - | 22 | -    | -  | -  | 22                          | -  | 22 |
| 03.03.10        | Improved cultivation of<br>Black Gram                  | PF            | 1                      | Off   | -                      | -  | -  | 25   | 3 | 28 | -    | -  | -  | 25                          | 3  | 28 |
| 04.03.10        | Improved cultivation of<br>Ground nut                  | PF            | 1                      | Off   | 29                     | 3  | 32 | 1    | - | 1  | -    | -  | -  | 30                          | 3  | 33 |
| 10.03.10        | Improved cultivation of<br>Sesame                      | PF            | 1                      | Off   | 16                     | 6  | 22 | 1    | - | 1  | -    | -  | -  | 17                          | 6  | 23 |
| 11-<br>17.03.10 | Vegetable production<br>Techniques                     | PF            | 7                      | ON    | -                      | 15 | 15 | -    | 1 | 1  | -    | 14 | 14 | -                           | 30 | 30 |
| 11-<br>12.03.10 | Improved cultivation<br>technique of summer<br>brinjal | PF            | 2                      | ON    | 1                      | -  | 1  | -    | - | -  | 21   | -  | 21 | 22                          | -  | 22 |
| 11-<br>17.03.10 | Vegetable production<br>Techniques                     | PF            | 7                      | ON    | -                      | 29 | 29 | -    | - | -  | -    | 1  | 1  | -                           | 30 | 30 |
| 12.03.10        | Nutrition Gardening                                    | PW            | 1                      | OFF   | -                      | 17 | 17 | -    | - | -  | -    | -  | -  | -                           | 17 | 17 |
| 13-<br>19.03.10 | Vegetable production<br>Techniques                     | PF            | 7                      | ON    | -                      | 28 | 28 | -    | - | -  | -    | 2  | 2  | -                           | 30 | 30 |
| 13-<br>19.03.10 | Flower production<br>Techniques                        | PF            | 7                      | ON    | -                      | 10 | 10 | -    | - | -  | -    | -  | -  | -                           | 10 | 10 |
| 15.03.10        | Production Techniques of<br>Ginger                     | PF            | 1                      | OFF   | 8                      | -  | 8  | 3    | - | 3  | 6    | -  | 6  | 17                          | -  | 17 |
| 18-<br>19.03.10 | Improved cultivation of<br>marigold                    | PF            | 2                      | On    | 4                      | 10 | 14 | -    | - | -  | -    | -  | -  | 4                           | 10 | 14 |
| 18-<br>24.03.10 | Vegetable production<br>Techniques                     | PF            | 7                      | ON    | -                      | 29 | 29 | -    | - | -  | -    | 1  | 1  | -                           | 30 | 30 |
| 20.03.10        | Maintenance of SHG<br>Groups                           | EF            | 1                      | ON    | -                      | 15 | 15 | -    | - | -  | -    | 2  | 2  | -                           | 17 | 17 |
| 22-<br>28.03.10 | Vegetable production<br>Techniques                     | PF            | 7                      | ON    | -                      | 25 | 25 | -    | 1 | 1  | -    | 4  | 4  | -                           | 30 | 30 |
| 22-             | Goat Rearing                                           | Pf            | 7                      | ON    | -                      | -  | -  | 10   | - | 10 | -    | -  | -  | 10                          | -  | 10 |

|                     |                                                         |    |   |     |    |    |    |    |    |    |    |    |    |    |    |    |  |
|---------------------|---------------------------------------------------------|----|---|-----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| <b>28.03.10</b>     |                                                         |    |   |     |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 03-09.04.10         | Vegetable Production techniques                         | PF | 7 | ON  | -- | 4  | 4  | 9  | -  | 9  | 18 | -  | 18 | 27 | 4  | 31 |  |
| 03-09.04.10         | Vegetable Production techniques                         | PF | 7 | ON  | 5  | 7  | 12 | 9  | 8  | 17 | 1  | -  | 1  | 15 | 15 | 30 |  |
| 03-09.04.10         | Vegetable Production techniques                         | PF | 7 | ON  | 27 | 7  | 34 | 1  | -  | 1  | -  | -  | -  | 28 | 7  | 35 |  |
| 10.04.10            | Training on Seed village Programme                      | PF | 1 | ON  | 19 | -  | 19 | -  | -  | -  | -  | -  | -  | 19 | -  | 19 |  |
| 10-12.04.10         | Sticking of garments                                    | RY | 2 | ON  | -  | 16 | 16 | -  | -  | -  | -  | -  | -  | -  | 16 | 16 |  |
| 12-04.10            | Growing of vegetable seeding by advance Techniques      | PF | 1 | OFF | -- | -  | -  | -  | -  | -  | 17 | 3  | 20 | 17 | 3  | 20 |  |
| 13.04.10            | Management of Self help groups                          | PF | 1 | Off | -  | -  | -  | -  | -  | -  | 19 | 12 | 31 | 19 | 12 | 31 |  |
| 14-15.04.10         | Improved cultivation Technology of summer cucurbits     | PF | 2 | ON  | 12 | -  | 12 | -- | -  | -  | 5  | -  | 5  | 17 | -  | 17 |  |
| 16-17.04.10         | Sticking of garments                                    | RY | 2 | ON  | -  | 17 | 17 | -  | -  | -  | -  | -  | -  | -  | 17 | 17 |  |
| 20.04.10            | Mobilization & economic activities of SHG               | PF | 1 | ON  | -  | 25 | 25 | -  | -  | -  | -  | -  | -  | -  | 25 | 25 |  |
| 26.04.10            | Management and mobilization of SHG                      | EF | 1 | ON  | -  | 15 | 15 | -  | -  | -  | -  | -  | -  | -  | 15 | 15 |  |
| 30.04.10 - 06.05.10 | Vegetable production technique                          | PF | 7 | ON  | -  | 6  | 6  | -  | 9  | 9  | -  | -  | -  | -  | 15 | 15 |  |
| 30.04.10 - 06.05.10 | Vegetable production technique                          | PF | 7 | ON  | -  | 25 | 25 | -  | 5  | 5  | -  | -  | -  | -  | 30 | 30 |  |
| 06 - 12.05.10-      | Floriculture production technique                       | PF | 7 | ON  | -  | 30 | 30 | -  | -  | -  | -  | -  | -  | -  | 30 | 30 |  |
| 07-13.05.10         | Vegetable production technique                          | PF | 7 | ON  | -  | 23 | 23 | -  | 7  | 7  | -  | -  | -  | -  | 30 | 30 |  |
| 07-09.05.10         | Gender sensitization Module                             | EF | 3 | ON  | 5  | 18 | 23 | 1  | -  | 1  | -  | 1  | 1  | 6  | 19 | 25 |  |
| 09-11.05.10         | Gender sensitization Module                             | EF | 3 | ON  | 24 | 1  | 25 | -  | -  | -  | -  | -  | -  | 24 | 1  | 25 |  |
| 10-16.05.10         | Vegetable production technique                          | PF | 7 | ON  | -  | 13 | 13 | -  | 14 | 14 | -  | 3  | 3  | -  | 30 | 30 |  |
| 12.05.10            | Making of cushion                                       | PF | 1 | OFF | -  | 18 | 18 | -  | -  | -  | -  | -  | -  | -  | 18 | 18 |  |
| 13-14.05.10         | Improved cultivation technology of Colocasia & Turmeric | PF | 2 | ON  | -  | 20 | 20 | -  | -  | -  | -  | -  | -  | -  | 20 | 20 |  |
| 17.05.10            | SRI Techniques of paddy production                      | PF | 1 | ON  | 23 | -  | 23 | 2  | -  | 2  | -  | -  | -  | 25 | -  | 25 |  |
| 24-30.05.10.        | Production Techniques of organic Manures'               | RY | 7 | ON  | 20 | 3  | 23 | 2  | -  | 2  | -  | -  | -  | 22 | 3  | 25 |  |
| 18-19.05.10         | SRI Techniques of paddy production                      | PF | 2 | ON  | 20 | -  | 20 | -  | -  | -  | -  | -  | -  | 20 | -  | 20 |  |
| 21-27.05.10         | Vegetable production technique                          | PF | 7 | ON  | 28 | -  | 28 | -  | -  | -  | -  | -  | -  | 28 | -  | 28 |  |
| 31.05.10-06.06.10   | Vegetable production technique                          | PF | 7 | ON  | 26 | -  | 26 | 4  | -  | 4  | -  | -  | -  | 30 | -  | 30 |  |

|             |                                                                          |    |   |     |    |    |     |    |    |    |    |    |    |     |    |     |
|-------------|--------------------------------------------------------------------------|----|---|-----|----|----|-----|----|----|----|----|----|----|-----|----|-----|
| 04.06.10    | Scientific production technique of green chillies and capsicum           | PF | 1 | OFF | 24 | -  | 24  | -  | -  | -  | -  | -  | -  | 24  | -  | 24  |
| 07-12.06.10 | Mushroom production techniques                                           | RY | 6 | ON  | 12 | -  | 12  | 2  | -  | 2  | 7  | -  | 7  | 21  | -  | 21  |
| 11-12.06.10 | Improved cultivation of kharif bhindi                                    | PF | 2 | ON  | -  | -  | -   | 23 | 4  | 27 | -  | -  | -  | 23  | 4  | 27  |
| 15.06.10    | Storage of food grains                                                   | PF | 1 | OFF | -  | 18 | 18  | -  | -  | -  | -  | -  | -  | -   | 18 | 18  |
| 22.06.10    | Pickle making of tomato                                                  | PF | 1 | OFF | -  | -  | -   | -  | 22 | 22 | -  | -  | -  | -   | 22 | 22  |
| 22-23.06.10 | Improved cultivation technology of vegetable soyabean and pigeon pea     | PF | 2 | ON  | 19 | -  | 19  | -  | -  | -  | 1  | -  | 1  | 20  | -  | 20  |
| 24.06.10    | Improved cultivation technology of pigeon pea, black gram and green gram | PF | 1 | ON  | 18 | -  | 18  | -  | -  | -  | 1  | -  | 1  | 19  | -  | 19  |
| 24.06.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 85 | 2  | 87  | 8  | 1  | 9  | 10 | -  | 10 | 103 | 3  | 106 |
| 25.06.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 72 | 15 | 87  | 2  | -  | 2  | 7  | 12 | 19 | 81  | 27 | 108 |
| 25.06.10    | Improved cultivation technology of groundnut, maize and sesame.          | PF | 1 | ON  | 18 | -  | 18  | 1  | -  | 1  | 1  | -  | 1  | 20  | -  | 20  |
| 26.06.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 12 | -  | 12  | 2  | -  | 2  | 62 | 18 | 80 | 76  | 18 | 94  |
| 03.07.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 90 | 11 | 101 | 1  | -  | 1  | 3  | -  | 3  | 94  | 11 | 105 |
| 06.07.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 62 | 40 | 102 | -  | -  | -  | -  | -  | -  | 62  | 40 | 102 |
| 07.07.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 66 | 29 | 95  | 31 | -  | 31 | 1  | -  | 1  | 98  | 29 | 127 |
| 08.07.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 87 | -  | 87  | 3  | -  | 3  | 1  | -  | 1  | 91  | -  | 91  |
| 08.07.10    | Pickle making of oal                                                     | PF | 1 | OFF | -  | 15 | 15  | -  | 5  | 5  | -  | -  | -  | -   | 20 | 20  |
| 09.07.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 40 | 58 | 98  | -  | -  | -  | 7  | -  | 7  | 47  | 58 | 105 |
| 10.07.10    | SRI method of rice production and production techniques of kharif crops  | PF | 1 | OFF | 84 | 32 | 116 | 9  | -  | 9  | -  | -  | -  | 93  | 32 | 125 |
| 14-16.07.10 | Integrated crop production techniques                                    | PF | 3 | ON  | 10 | -  | 10  | -  | -  | -  | 15 | -  | 15 | 25  | -  | 25  |
| 20.07.10    | Formation, function and linkage of SHG with banks                        | PF | 1 | OFF | -  | -  | -   | -  | -  | -  | -  | 18 | 18 | -   | 18 | 18  |
| 03-08.08.10 | Capacity building of rural youth                                         | RY | 6 | ON  | 9  | 8  | 17  | -  | 4  | 4  | -  | -  | -  | 9   | 12 | 21  |
| 20.08.10    | Nutrition garden                                                         | PF | 1 | OFF | -  | 18 | 18  | -  | -  | -  | -  | -  | -  | -   | 18 | 18  |

|                   |                                                                                         |    |   |     |    |    |    |    |    |    |    |    |    |    |    |    |
|-------------------|-----------------------------------------------------------------------------------------|----|---|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| 20.08.10          | Process of seed production, registration and its marketing                              | PF | 1 | ON  | 5  | 2  | 7  | -  | -  | -  | 7  | 1  | 8  | 12 | 3  | 15 |
| 24.08.10          | Formation of kisan club, benefits, linkage with NABARD and preparation of crop calendar | PF | 1 | OFF | 30 | -  | 30 | -  | -  | -  | -  | -  | -  | 30 | -  | 30 |
| 28.08.10          | Alternate cropping system in drought condition                                          | PF | 1 | OFF | 26 | -  | 26 | 7  | -  | 7  | 2  | -  | 2  | 35 | -  | 35 |
| 29-30.08.10       | Establishment of new orchard.                                                           | PF | 2 | ON  | 12 | -  | 12 | 4  | 1  | 5  | 7  | -  | 7  | 23 | 1  | 24 |
| 02-06-09.10       | Integrated crop production                                                              | PF | 5 | On  | 25 | -  | 25 | -  | -  | -  | -  | -  | -  | 25 | -  | 25 |
| 03-04.09.10       | Cultivation of Jerbera for higher production and income.                                | PF | 2 | On  | 15 | 3  | 18 | -  | -  | -  | 2  | -  | 2  | 17 | 3  | 20 |
| 14.09.10          | Formation of Kisan Club and its functioning                                             | PF | 1 | On  | 20 | -  | 20 | 13 | -  | 13 | -  | -  | -  | 33 | -  | 33 |
| 06-07.10.10       | Improved technology of solenacious vegetables                                           | PF | 2 | On  | 14 | 2  | 16 | 1  | -  | 1  | -  | -  | -  | 15 | 2  | 17 |
| 20.10.10          | Scientific cultivation of cauliflower and cabbage.                                      | PF | 1 | On  | -  | 17 | 17 | -  | 3  | 3  | -  | -  | -  | -  | 20 | 20 |
| 25.10.10          | Improved cultivation of pea.                                                            | PF | 1 | On  | -  | 11 | 11 | -  | 12 | 12 | -  | -  | -  | -  | 23 | 23 |
| 25.10.10          | Maintenance of records and economic activities of SHG                                   | PF | 1 | Off | -  | -  | -  | -  | -  | -  | 10 | 8  | 18 | 10 | 8  | 18 |
| 27.10.10-02.11.10 | Vegetable production Techniques                                                         | PF | 7 | ON  | 13 | 17 | 30 | -  | -  | -  | -  | -  | -  | 13 | 17 | 30 |
| 27.10.10-02.11.10 | Vegetable production Techniques                                                         | PF | 7 | ON  | 5  | 21 | 26 | -  | 2  | 2  | 1  | -  | 1  | 6  | 23 | 29 |
| 08.11.10          | Maintenance of records and economic activities of SHG                                   | PF | 1 | OFF | -  | 26 | 26 | -  | -  | -  | -  | -  | -  | -  | 26 | 26 |
| 10.11.10          | Production Techniques of rabi pulses                                                    | PF | 1 | OFF | 39 | -  | 39 | -  | -  | -  | -  | -  | -  | 39 | -  | 39 |
| 10-11.11.10       | Improved cultivation technology of cole crops                                           | PF | 2 | ON  | 16 | 2  | 18 | 3  | -  | 3  | -  | -  | -  | 19 | 2  | 21 |
| 12.11.10          | Picco fall tagging                                                                      | PF | 1 | OFF | -  | 16 | 16 | -  | -  | -  | -  | -  | -  | -  | 16 | 16 |
| 01.06.12.10       | Mushroom cultivation                                                                    | RY | 6 | ON  | 17 | -  | 17 | -  | -  | -  | 1  | -  | 1  | 18 | -  | 18 |
| 01-02.12.10       | Improved Cultivation Technology of pea production                                       | PF | 2 | ON  | 15 | -  | 15 | 3  | 1  | 4  | -  | 1  | 1  | 18 | 2  | 20 |
| 8-12.12.10        | <b>Production Techniques of Vermi compost</b>                                           | EF | 7 | ON  | -  | 2  | 2  | -  | -  | -  | -  | 14 | 14 | -  | 16 | 16 |
| 11.12.10          | Kitchen gardening                                                                       | PF | 1 | OFF | -  | 14 | 14 | -  | -  | -  | -  | -  | -  | -  | 14 | 14 |
| 18.12.10          | Crop Insurance of rabi Crops                                                            | PF | 1 | ON  | 66 | 4  | 70 | -  | -  | -  | 2  | -  | 2  | 68 | 4  | 72 |
| 29.12.10          | Formation of Kisan club                                                                 | PF | 1 | OFF | 18 | -  | 18 | 8  | -  | 8  | -  | -  | -  | 26 | -  | 26 |
| 1-2.1.2011        | Improved cultivation technology of elephant foot yam                                    | PF | 2 | ON  | 14 | 4  | 18 | -  | -  | -  | 2  | -  | 2  | 16 | 4  | 20 |
| 2.1.2011          | Package and practices of                                                                | PF | 1 | ON  | 25 | -  | 25 | 5  | -  | 5  | -  | -  | -  | 30 | -  | 30 |

|              |                                                          |    |   |     |    |    |    |   |   |   |   |   |    |    |    |    |
|--------------|----------------------------------------------------------|----|---|-----|----|----|----|---|---|---|---|---|----|----|----|----|
|              | summer pulses                                            |    |   |     |    |    |    |   |   |   |   |   |    |    |    |    |
| 3.1.2011     | Wheat cultivation and seed production                    | PF | 1 | ON  | 22 | -  | 22 | - | - | - | - | - | -  | 22 | -  | 22 |
| 4-5.1.2011   | Improved cultivation technology of colocasia             | PF | 1 | ON  | 10 | 1  | 11 | 1 | - | 1 | 4 | 4 | 8  | 15 | 5  | 20 |
| 6-7.1.2011   | Improved cultivation technology of summer ladyfinger.    | PF | 2 | ON  | 3  | 1  | 4  | - | 1 | 1 | 7 | 4 | 11 | 10 | 6  | 16 |
| 8.1.2011     | Insect and disease management after sowing of rabi crops | PF | 1 | OFF | 23 | -  | 23 | - | - | - | - | - | -  | 23 | -  | 23 |
| 12-13.1.2011 | Improved technology of wheat through SWI                 | PF | 2 | ON  | 4  | 2  | 6  | 7 | - | 7 | 4 | 3 | 7  | 15 | 5  | 20 |
| 24.1.2011    | Storage of food grains at house hold level               | PF | 1 | OFF | -  | 24 | 24 | - | - | - | - | - | -  | -  | 24 | 24 |
| 25.1.2011    | Training on Kisan Credit Card                            | PF | 1 | ON  | 4  | -  | 4  | 7 | - | 7 | 6 | 3 | 9  | 17 | 3  | 20 |
|              |                                                          |    |   |     |    |    |    |   |   |   |   |   |    |    |    |    |
|              |                                                          |    |   |     |    |    |    |   |   |   |   |   |    |    |    |    |

**(D). Vocational training programmes for Rural Youth**

| Crop / Enterprise | Identified Thrust Area       | Training title*          | Duration (days) | No. of Participants |        |       | Self employed after training |                 |                            | Number of persons employed else where |
|-------------------|------------------------------|--------------------------|-----------------|---------------------|--------|-------|------------------------------|-----------------|----------------------------|---------------------------------------|
|                   |                              |                          |                 | Male                | Female | Total | Type of units                | Number of units | Number of persons employed |                                       |
| Mushroom          | Entrepreneurship development | Mushroom production      | 7               |                     |        |       | Mushroom unit                | 5               | 15                         | -                                     |
| Vermi Composting  | Entrepreneurship development | Vermi compost production | 4               |                     |        |       | Vermi compost unit           |                 |                            |                                       |

\*training title should specify the major technology /skill transferred

**(E). Sponsored Training Programmes**

| Sl.No | Title                                                            | Thematic area                                   | Month | Duration (days) | Client    | No. of courses | No. of Participants |    |    |        |    |    |       |    |    |       | Sponsoring Agency                |
|-------|------------------------------------------------------------------|-------------------------------------------------|-------|-----------------|-----------|----------------|---------------------|----|----|--------|----|----|-------|----|----|-------|----------------------------------|
|       |                                                                  |                                                 |       |                 | PF/R Y/EF |                | Male                |    |    | Female |    |    | Total |    |    |       |                                  |
|       |                                                                  |                                                 |       |                 |           |                | Oth                 | SC | ST | Oth    | SC | ST | Oth   | SC | ST | Total |                                  |
| 1.    | Mushroom production for Commercial Purpose                       | Increase self employment in Mashroom Production |       |                 |           |                |                     |    |    |        |    |    |       |    |    |       | T.S.R.D.S. Dhanbad               |
| 2.    | Enhancement of productivity of Irrigation Water & its Management | Increase use of water use efficiency            |       |                 |           |                |                     |    |    |        |    |    |       |    |    |       | Deptt. Of Agronomy B.A.U. Ranchi |

|     |                                               |                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                            |
|-----|-----------------------------------------------|------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------|
| 3.  | Cropping system to mitigate drought situation | Increase production in drought situation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Under R.K.V.Y ATMA DHANBAD |
| 4.  | Kharif and rabi crop production technique.    | Increase production.                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | -do-                       |
| 5.  | Vegetable production technique                | Increase vegetable production            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |
| 6.  | Vegetable production technique                | Increase vegetable production            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |
| 7.  | Vegetable production technique                | Increase vegetable production            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |
| 8.  | Vegetable production technique                | Increase vegetable production            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |
| 9.  | Vegetable production technique                | Increase vegetable production            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |
| 10. | Vegetable production technique                | Increase vegetable production            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |
| 11. | Flower production                             | Increase flower production               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |
| 12. | Goat rearing                                  | Increase income and employment           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SGCY, DRDA, Dhanbad        |

### 3.3 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                                              |                   |         |        |       |                     |        |       |       |        |       |
| Kisan Mela                                             |                   |         |        |       |                     |        |       |       |        |       |
| Kisan Gosthi                                           |                   |         |        |       |                     |        |       |       |        |       |
| KisanGosthi-“CHALE GAON KI OAR” for drought mitigation |                   |         |        |       |                     |        |       |       |        |       |
| Exhibition                                             |                   |         |        |       |                     |        |       |       |        |       |
| Film Show                                              |                   |         |        |       |                     |        |       |       |        |       |
| Method Demonstrations                                  |                   |         |        |       |                     |        |       |       |        |       |

|                                                  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| Farmers Seminar on seed production               |  |  |  |  |  |  |  |  |  |  |
| Workshop                                         |  |  |  |  |  |  |  |  |  |  |
| Group meetings                                   |  |  |  |  |  |  |  |  |  |  |
| Lectures delivered                               |  |  |  |  |  |  |  |  |  |  |
| Newspaper coverage                               |  |  |  |  |  |  |  |  |  |  |
| Radio coverage                                   |  |  |  |  |  |  |  |  |  |  |
| TV coverage                                      |  |  |  |  |  |  |  |  |  |  |
| Radio Programmes                                 |  |  |  |  |  |  |  |  |  |  |
| TV Programmes                                    |  |  |  |  |  |  |  |  |  |  |
| Publications                                     |  |  |  |  |  |  |  |  |  |  |
| Popular articles                                 |  |  |  |  |  |  |  |  |  |  |
| Extension Literature                             |  |  |  |  |  |  |  |  |  |  |
| Advisory Services                                |  |  |  |  |  |  |  |  |  |  |
| Scientific visit to farmers field                |  |  |  |  |  |  |  |  |  |  |
| Farmers visit to KVK                             |  |  |  |  |  |  |  |  |  |  |
| Diagnostic visits                                |  |  |  |  |  |  |  |  |  |  |
| Field visits                                     |  |  |  |  |  |  |  |  |  |  |
| Exposure visits                                  |  |  |  |  |  |  |  |  |  |  |
| Ex-trainees Sammelan                             |  |  |  |  |  |  |  |  |  |  |
| Agriculture Camps                                |  |  |  |  |  |  |  |  |  |  |
| Clinic day                                       |  |  |  |  |  |  |  |  |  |  |
| Soil health Camp                                 |  |  |  |  |  |  |  |  |  |  |
| Animal Health Camp                               |  |  |  |  |  |  |  |  |  |  |
| Agri mobile clinic                               |  |  |  |  |  |  |  |  |  |  |
| Soil test campaigns                              |  |  |  |  |  |  |  |  |  |  |
| Farm Science Club Conveners meet                 |  |  |  |  |  |  |  |  |  |  |
| Self Help Group Conveners meetings               |  |  |  |  |  |  |  |  |  |  |
| Mahila Mandals Conveners meetings                |  |  |  |  |  |  |  |  |  |  |
| Celebration of important days (specify) Seed Day |  |  |  |  |  |  |  |  |  |  |
| Any Other (Specify) Krishak helpline             |  |  |  |  |  |  |  |  |  |  |

### 3.5 Production and supply of Technological products

#### SEED MATERIALS

| Sl. No.           | Crop        | Variety       | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|-------------------|-------------|---------------|-----------------|-------------|----------------------------|
| <b>CEREALS</b>    | Paddy       | MTU 7029      | 50.00           | 78912       | -                          |
|                   | Paddy       | BPT-5204      | 19.00           | 34470       | -                          |
|                   | Paddy       | Lalat         | 17.00           | 28500       | -                          |
|                   | Wheat       | K-9107        | 2.26            | 3390        |                            |
| <b>OILSEEDS</b>   | Sesame      | Kanke Safed   | 0.12            | 540         |                            |
|                   | Niger       | Birsa Niger-1 | 0.30            | 1200        |                            |
|                   | Ground Nut  | Birsa Bold    | 1.10            | 3850        |                            |
|                   | Mustard     | Shivani       | 0.15            | 525         |                            |
| <b>PULSES</b>     | Green gram  | PDM-11        | 0.30            | 1350        |                            |
|                   | Pigeon pea  | Bahar         | 0.95            | 4275        |                            |
|                   | Pigeon pea  | Birsa Arhar-1 | 0.12            | 480         | -                          |
|                   | Chick pea   | KPG-59        | .85             | 2992        |                            |
| <b>VEGETABLES</b> | French bean | Arka Komal    | 0.15            | 750         | -                          |

|                         |          |          |       |      |
|-------------------------|----------|----------|-------|------|
|                         | Pea      | Azad P-1 | 0.30  | 1350 |
|                         | Cabbage  |          | 69 pc | 138  |
| <b>FLOWER CROPS</b>     |          |          |       |      |
| <b>OTHERS (Specify)</b> | Mushroom | Oyster   | 65    | 3904 |

## SUMMARY

| Sl. No.      | Crop         |               | Quantity (qtl.) | Value (Rs.)   | Provided to No. of Farmers |
|--------------|--------------|---------------|-----------------|---------------|----------------------------|
| 1            | CEREALS      | Paddy + Wheat | 88.26           | 139482        |                            |
| 2            | OILSEEDS     |               | 1.67            | 6115          |                            |
| 3            | PULSES       |               | 2.22            | 9097          |                            |
| 4            | VEGETABLES   |               | 0.45            | 2100          | -                          |
| 5            | FLOWER CROPS |               |                 |               |                            |
| 6            | OTHERS       | Mushroom      | 0.65            | 3904          | 70                         |
| <b>TOTAL</b> |              |               | <b>92.58</b>    | <b>160698</b> | <b>70</b>                  |

## PLANTING MATERIALS

| Sl. No.                 | Crop             | Variety                    | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers         |
|-------------------------|------------------|----------------------------|-----------------|-------------|------------------------------------|
| <b>FRUITS</b>           | Banana           | Grand nine Martman Robusta | 2844            | 28440       | Farmers + sold to NHM BAU, Ranchi. |
|                         |                  |                            |                 |             |                                    |
| <b>SPICES</b>           |                  |                            |                 |             |                                    |
|                         |                  |                            |                 |             |                                    |
| <b>VEGETABLES</b>       | Frenchbean       | Arka komal                 | 0.15q           | 750         | -                                  |
|                         | Pea              | Azad P-1                   | 0.30q           | 1350        | -                                  |
| <b>FOREST SPECIES</b>   |                  |                            |                 |             |                                    |
|                         |                  |                            |                 |             |                                    |
| <b>ORNAMENTAL CROPS</b> |                  |                            |                 |             |                                    |
|                         |                  |                            |                 |             |                                    |
| <b>PLANTATION CROPS</b> |                  |                            |                 |             |                                    |
|                         | Vermi compost    |                            | 373kg           | 1665        |                                    |
|                         | Others (specify) | Mushroom Oyster            | 0.65            | 3904        | -                                  |

## SUMMARY

| Sl. No. | Crop              | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|---------|-------------------|-----------------|-------------|----------------------------|
| 1       | FRUITS            |                 |             |                            |
| 2       | VEGETABLES        |                 |             | -                          |
| 3       | SPICES            |                 |             |                            |
| 4       | FOREST SPECIES    |                 |             |                            |
| 5       | ORNAMENTAL CROPS  |                 |             |                            |
| 6       | PLANTATION CROPS  |                 |             |                            |
| 8       | Vermi compost     | 373             | 1665        |                            |
| 9       | OTHERS (Mushroom) | 0.65 q          | 3904        | -                          |
|         | <b>TOTAL</b>      |                 |             |                            |

|                     |
|---------------------|
| <b>BIO PRODUCTS</b> |
|---------------------|

| Sl. No.               | Product Name | Species | Quantity |      | Value (Rs.) | Provided to No. of Farmers |
|-----------------------|--------------|---------|----------|------|-------------|----------------------------|
|                       |              |         | No       | (kg) |             |                            |
|                       |              |         |          |      |             |                            |
| <b>BIOAGENTS</b>      |              |         |          |      |             |                            |
| 1                     |              |         |          |      |             |                            |
| 2                     |              |         |          |      |             |                            |
| 3                     |              |         |          |      |             |                            |
| 4                     |              |         |          |      |             |                            |
| <b>BIOFERTILIZERS</b> |              |         |          |      |             |                            |
| 1                     |              |         |          |      |             |                            |
| 2                     |              |         |          |      |             |                            |
| 3                     |              |         |          |      |             |                            |
| 4                     |              |         |          |      |             |                            |
| <b>BIO PESTICIDES</b> |              |         |          |      |             |                            |
| 1                     |              |         |          |      |             |                            |
| 2                     |              |         |          |      |             |                            |
| 3                     |              |         |          |      |             |                            |
| 4                     |              |         |          |      |             |                            |

|                |
|----------------|
| <b>SUMMARY</b> |
|----------------|

| Sl. No. | Product Name    | Species | Quantity |      | Value (Rs.) | Provided to No. of Farmers |
|---------|-----------------|---------|----------|------|-------------|----------------------------|
|         |                 |         | No       | (kg) |             |                            |
| 1       | BIOAGENTS       |         |          |      |             |                            |
| 2       | BIO FERTILIZERS |         |          |      |             |                            |
| 3       | BIO PESTICIDE   |         |          |      |             |                            |
|         | <b>TOTAL</b>    |         |          |      |             |                            |

### LIVESTOCK

| Sl. No.                 | Type | Breed | Quantity |     | Value (Rs.) | Provided to No. of Farmers |
|-------------------------|------|-------|----------|-----|-------------|----------------------------|
|                         |      |       | (Nos)    | Kgs |             |                            |
| <b>Cattle</b>           |      |       |          |     |             |                            |
| <b>SHEEP AND GOAT</b>   |      |       |          |     |             |                            |
| <b>POULTRY</b>          |      |       |          |     |             |                            |
| <b>FISHERIES</b>        |      |       |          |     |             |                            |
| <b>Others (Specify)</b> |      |       |          |     |             |                            |
|                         |      |       |          |     |             |                            |

|                |
|----------------|
| <b>SUMMARY</b> |
|----------------|

| Sl. No. | Type   | Breed | Quantity |     | Value (Rs.) | Provided to No. of Farmers |
|---------|--------|-------|----------|-----|-------------|----------------------------|
|         |        |       | Nos      | Kgs |             |                            |
| 1       | CATTLE |       |          |     |             |                            |

|   |              |
|---|--------------|
| 2 | SHEEP & GOAT |
| 3 | POULTRY      |
| 4 | FISHERIES    |
| 5 | OTHERS       |
|   | <b>TOTAL</b> |

### 3.6. Literature Developed/Published (with full title, author & reference)

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

#### (B) Literature developed/published

| Item             | Title                                                                                     | Authors name                                                                                                                                               | Number                                                        |
|------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Research paper   | Response of French bean to boron application in calcareous soil. - 2008                   | Kumar, A.<br>Kumar, S.B.<br>Prasad, S.<br>Kumar, B.<br>Prasad, P.<br>Kumar, M.                                                                             | Indian journal of tropical Agriculture. 26(1-2):29-31         |
|                  | Correlation between spectral reflectance and crop biometrics. - 2008                      | Kumar, A.<br>Kumar, S.B.<br>Prasad, P.<br>Kumar, M.                                                                                                        | International journal of Tropical Agriculture 26(3-4):333-336 |
|                  | Effect of fertilizer dynamics on soil physical parameters. - 2008                         | Kumar, S.B.<br>Sinha, A.K.<br>Kumar, B.<br>Rana. N.K.<br>Singh, B.P.<br>Mishra, B.<br>Kumar, A.                                                            | International journal of Tropical Agriculture 26(3-4):337-339 |
|                  | Participatory approach for adoption of improved technology of mustard through FLD. - 2008 | Kumar, A.<br>Prasad, P.<br>Kumar, S.B.<br>Sohane, R.K.<br>Kumar, M.<br>Kumar, B.<br>Chaudhary, V.P.                                                        | International journal of Tropical Agriculture 26(3-4):345-347 |
| Technical report | 1. Annual report 2008-09                                                                  | Dr. Ashok Kumar<br>Dr.A.K.Srivastava<br>Dr. A.K.Dwivedi<br>Sri Rajeev Kumar<br>Sri Mithilesh Kumar                                                         | 15                                                            |
|                  | 2. Annual Action plan 2008-09 for annual workshop.                                        | Dr. Ashok Kumar<br>Dr. J. K. Lal<br>Dr.A.K.Srivastava<br>Sri Rajeev Kumar<br>Sri Mithilesh Kumar                                                           | 15                                                            |
|                  | 3. Action plan 2008-09 for SAC meeting.                                                   | Dr. Ashok Kumar<br>Dr. A.K.Dwivedi<br>Dr. A. K. Srivastava<br>Sri Rajeev Kumar<br>Sri Navin Kumar<br>Mrs. A. Mishra<br>Mrs. E. Xaxa<br>Sri Mithilesh Kumar | 30                                                            |
|                  | 4. FLD report                                                                             | Dr. Ashok Kumar<br>Dr. A. K. Srivastava                                                                                                                    |                                                               |

|                    |                                           |                                                                                                                         |      |
|--------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------|
|                    |                                           | Sri Rajeev Kumar<br>Sri Navin Kumar<br>Mrs. A. Mishra<br>Mrs. E. Xaxa<br>Sri Mithilesh Kumar                            |      |
|                    | 5. PRA report                             | Dr. Ashok Kumar<br>Dr. A. K. Srivastava<br>Sri Rajeev Kumar<br>Sri Navin Kumar<br>Mrs. E. Xaxa<br>Sri Mithilesh Kumar   |      |
| News letter        | -                                         | -                                                                                                                       | -    |
| Book               | 1. Vegetable Cultivation                  | Dr. Ashok Kumar<br>Er. Rajeev Kumar<br>Sri Navin Kumar<br>Dr. A. K. Srivastava<br>Dr. J.K.Lal<br>Mrs. Elisma Xaxa       | 500  |
|                    | 2. Mushroom cultivation                   | Dr. Ashok Kumar<br>Dr. A. K. Dwivedi<br>Er. Rajeev Kumar<br>Sri Navin Kumar<br>Dr. A. K. Srivastava<br>Mrs. Elisma Xaxa |      |
|                    | 3. Flower cultivation                     | Dr. Ashok Kumar<br>Dr. A. K. Dwivedi<br>Er. Rajeev Kumar<br>Sri Navin Kumar<br>Dr. A. K. Srivastava<br>Mrs. Elisma Xaxa |      |
| Magazine           | Krishi –Vihan -Half yearly                | Dr. Ashok Kumar<br>Dr. A. K. Dwivedi<br>Er. Rajeev Kumar<br>Dr. A. K. Srivastava<br>Sri Navin Kumar<br>Mrs. Elisma Xaxa | 1000 |
| Technical Bulletin | 1. Preparation and Use of Organic Manures | Dr. Ashok Kumar<br>Sri Rajeev Kumar                                                                                     | 1000 |
|                    | 2. Crop Seed Production                   | Dr. Ashok Kumar<br>Dr.S. S.Kumar<br>Dr. A. K. Dwivedi<br>Dr. A. K. Srivastava                                           | 1000 |
|                    | 3.S.R.I.Techniques of Paddy Cultivation   | Dr. Ashok Kumar<br>Sri Rajeev Kumar                                                                                     |      |
| Popular articles   | House level food grains storage.          | Sri Rajeev Kumar                                                                                                        |      |
|                    | SHG formation, regulation and its works.  | Dr. A .K. Srivastava                                                                                                    |      |
|                    | Rice seedling through Dapog’s method.     | Sri Devkant Prasad                                                                                                      |      |
|                    | Zero tillage rice cultivation.            | Dr. Ashok Kumar                                                                                                         |      |
|                    | Dhan ke Unnat Prabhed ‘O’ Kheti           | Dr. Ashok Kumar<br>Mr. Pradeep Kumar                                                                                    |      |
|                    | Dhan Me Rog Niyantaran                    | Mr.Navin Kumar<br>Mr. sanjay Kumar                                                                                      |      |
|                    | Grih Vatika Me Bhindi                     | Dr.A.K.Dwivedi<br>Dr. Ashok Kumar                                                                                       |      |

|                      |                                                                            |                                                          |              |
|----------------------|----------------------------------------------------------------------------|----------------------------------------------------------|--------------|
|                      | Tamatar Evam Mirch Me Ekikrit Rog Pravandhan                               | Dr.A.K.Dwivedi<br>Dr.Vinod Kumar                         |              |
|                      | Gende ki Kheti                                                             | Dr.A.K.Dwivedi<br>Mr.Navin Kumar                         |              |
|                      | Mitti Evam Versha Jal ka Sarrachhan evam Sangraha                          | Mr.Rajeev Kumar<br>Dr.S. S.Kumar                         |              |
|                      | Kisan Kredit Card- Samay Par Rin Upalabdhatta ke saath vyaktigat Surakchha | Dr.A.K.Srivastava<br>Dr.Maya Kumari                      |              |
| Extension literature | 1. Vermi compost preparation & its benefits.                               | Dr. J. K. Lal                                            | 1000         |
|                      | 2. Rain water harvesting & advanced method of irrigation.                  | Sri Rajeev Kumar<br>Sri Devkant Prasad                   | 1000         |
|                      | 3. SHG formation, regulation & its work.                                   | Dr. A .K. Srivastava                                     | 2000         |
|                      | 4. Integrated pest management in vegetables.                               | Sri Navin Kumar                                          | 2000         |
|                      | 5. House level food grain storage.                                         | Sri Rajeev Kumar<br>Dr. Ashok Kumar                      | 2000         |
|                      | 6. Zero tillage rice cultivation.                                          | Sri Devkant Prasad<br>Dr. Ashok Kumar                    | 2000         |
|                      | 7. Feed preparation for milch animals.                                     | Dr. H. Singh                                             | 1000         |
|                      | 8. Jetropha cultivation.                                                   | Dr. Ashok Kumar<br>Sri Devkant Prasad<br>Sri Navin Kumar | 2000         |
|                      | 9. “Dapog” method of rice seedling raising.                                | Sri Devkant Prasad<br>Sri Rajeev Kumar                   | 2000         |
|                      | 10. Effect of time of transplanting on rice yield.                         | Sri Devkant Prasad                                       | 1000         |
|                      | 11. Farmation of Self Help Groups and their Function                       | Dr.A.K.Srivastava<br>Sri Rajeev Kumar                    | 1000         |
|                      | 12. Cultivation of Tissue Cultured Banana                                  | Dr.A.K.Dwivedi<br>Smt Elisma Xaxa<br>Dr.M.Banerjee       | 1000         |
|                      | 13. Techniques of Soil Sample Collection                                   | Dr. Ashok Kumar                                          | 1000         |
|                      | 14. Integrated Insect Management in Vegetables                             | Mr.Navin Kumar<br>Dr.A.K.Srivastava                      | 1000         |
|                      | 15. Dhan ke Unnat Prabhed                                                  | Dr. Ashok Kumar<br>Smt Elisma Xaxa                       | 1000         |
| Others (Pl. specify) |                                                                            |                                                          |              |
| <b>TOTAL</b>         | <b>42</b>                                                                  |                                                          | <b>24560</b> |

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

**(C) Details of Electronic Media Produced**

| S. No. | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number |
|--------|-------------------------------------------------|------------------------|--------|
|        |                                                 |                        |        |

**3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)**

**1. Seed village**

Realising the need based on farmers reaction about scarcity of quality seed availability in the district, the KVK, Dhanbad came forward to solve the problem through seed villages. The KVK, Dhanbad first of all decided to form seed village (Beej gram) in every block of the district. The first step in this regard was starting with the first meeting on 22.03.08 with the progressive farmers of the district.

#### **Efforts of KVK:-**

A regular schedule was prepared by KVK to visit one to two resourceful villages of every block to convince farmers to form seed village in their respective village / cluster of village. After that a series of meetings and trainings programmes were conducted in different villages of different blocks in the district.

| Sl. No. | Meeting/Training Date | Village                   | Block    |
|---------|-----------------------|---------------------------|----------|
| 1.      | 04.04.08              | Rajganj                   | Baghmara |
| 2.      | 05.04.08              | Kunthoul                  | Nirsa    |
| 3.      | 07.04.08              | Maniadih                  | Tundi    |
| 4.      | 02.05.08              | Barkhadih                 | Baghmara |
| 5.      | 06.05.08              | Gosthi on seed production | KVK      |
| 6.      | 07.05.08              | Pratapdih                 | Nirsa    |
| 7.      | 27.05.08              | Parghabad                 | Jharia   |
| 8.      | 29.05.08              | Panchet                   | Nirsa    |
| 9.      | 03.06.08              | Maithan                   |          |

After series of meetings and trainings the result came out with the formation of 7 seed village mentioned below -

| Sl. No. | Name of beej gram         | Place             |
|---------|---------------------------|-------------------|
| 1.      | Ujjawal seed village      | Govindpur         |
| 2.      | Binod Shakti seed village | Rajganj, Baghmara |
| 3.      | Shivshaki seed village    | Palani. Baliapur  |
| 4.      | Shiv Jyoti seed village   | Palani. Baliapur  |
| 5.      | Beej gram Dhokhra         | Dhokhra, Dhanbad  |
| 6.      | Seed village              | Maithan, Nirsa    |
| 7.      | Seed village              | Panchet, Nirsa    |

The farmers of seed villages started with production of paddy seed. All the farmers of seed villages grown the certified seed from foundation of MTU – 7029, Lalat and BPT – 5204.

They personally took the process of production & registration of the seed as per our suggestion and instruction time to time. The KVK supported and guided all the seed groups starting from formation of group, selection of seed, preparation of field, seed sowing, seed treatment, irrigation, manures and fertilizer applications, plant protection measure, harvesting, threshing, processing, acquiring tag, sewing and marketing of the seed.

#### **Results:**

After long wait the result has come with production of 529q of certified and truthful labeled seed of paddy under these seed villages. The total 529 quintal seed has been produced by the seed growers. The seed produced by seed village farmers as under

| Sl. No. | Name of seed village                               | Variety    | Category   | Quantity (q) |
|---------|----------------------------------------------------|------------|------------|--------------|
| 1.      | Ujjawal beej gram, Jaipur, Govindpur, Dhanbad      | BPT – 5204 | F/S to C/S | 41           |
| 2.      | Binod shakti beej gram, Rajganj, Baghmara, Dhanbad | MTU – 7029 | F/S to C/S | 10           |
| 3.      | Binod shakti beej gram, Rajganj, Baghmara, Dhanbad | Lalat      | F/S to C/S | 1            |
| 4.      | Shiv shakti beej gram, Palani, Baliapur, Dhanbad   | MTU – 7029 | F/S to C/S | 10           |
| 5.      | Shiv shakti beej gram, Palani, Baliapur, Dhanbad   | Lalat      | F/S to C/S | 05           |
| 6.      | Shiv shakti beej gram, Palani, Baliapur, Dhanbad   | Lalat      | B/S to C/S | 02           |
| 7.      | Shiv Jyoti seed village, Palani, Baliapur, Dhanbad | BPT – 5204 | B/S to C/S | 10           |
| 8.      | Shiv Jyoti seed village, Palani, Baliapur, Dhanbad | MTU – 7029 | F/S to C/S | 70           |
| 9.      | Beej gram, Dhokhra, Dhanbad                        | MTU – 7029 | F/S to C/S | 10           |
| 10.     | Seed village, Panchet, Dhanbad                     | MTU – 7029 | F/S to T/L | 170          |
| 11.     | Seed village, Maithan, Dhanbad                     | MTU – 7029 | F/S to T/L | 200          |

#### **Cost of cultivation:-**

The farmers were convinced to start the seed production programme of paddy which is easy to produce and maximum grown in the district. Farmers of the seed village produced the seed as usual they grow paddy with caring isolation distances, plant protection measures and weed control. The only additional cost incurred was in seed, seed certification, tagging and processing which were very nominal varies from Rs. 2 – 2.5 / Kg seed.

#### **Benefit:**

The farmers of the selected seed villages are going to sale their seed @ 16 – 18 Rs./Kg where the price of nonseed rice is 7 – 8 Rs./Kg. Including the cost of seed, seed certification, processing, bagging, tagging and marketing it cost grown Rs. 10 / kg. Hence they ultimately get the benefit @ Rs. / 6 – 8 /Kg seed.

In this way the farmers are being ultimately benefitted either by growing seed in the villages or by purchasing quality seeds in their approachable locality on lower prices.

#### **Impact of seed village programme**

| Year | Variety of seed | Amount produced (q) | Area (ha) | No. of farmers involved | Net return/ha                             |                                          | No. of farmers benefitted by obtaining quality |
|------|-----------------|---------------------|-----------|-------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------|
|      |                 |                     |           |                         | Before adoption of seed village programme | After adoption of seed village programme |                                                |
|      |                 |                     |           |                         |                                           |                                          |                                                |

|      |          |       |      |    |       |       | seed  |
|------|----------|-------|------|----|-------|-------|-------|
| 2007 | MTU-7029 | 12.0  | 0.5  | 3  | 5200  | 22200 | 55    |
|      | BPT-5204 | Nil   | Nil  | -  | -     | -     | -     |
|      | Lalat    | 10.0  | 0.5  | 2  | 4000  | 19000 | 64    |
| 2008 | MTU-7029 | 470.0 | 14.2 | 66 | 11478 | 38300 | 311.5 |
|      | BPT-5204 | 51.0  | 1.6  | 05 | 16875 | 42375 | 572   |
|      | Lalat    | 8.0   | 0.4  | 02 | 5000  | 21000 | 62    |

In this way the farmers are being ultimately benefitted either by growing seed in the villages or by purchasing quality seeds in their approachable locality on lower prices.





Paddy Seed Production under Seed Village at Palani



Paddy Seed Production under Seed Village at Rajganj, Baghmara



Hon'ble DG ICAR New Delhi visiting seed processing unit at KVK Dhanbad



DDG (Agri.Extension) ICAR New Delhi visit to processing unit of KVK Dhanbad



DDG (Agri.Extension) ICAR New Delhi inaugurating “seed day” to KVK Dhanbad

## **2. Success Story:-**

### **Mushroom production : A successful entrepreneur for rural youth in Dhanbad district**

Dhanbad is known as coal capital of India and hence a major chunk of rural population is engaged in coal mines. Farming is neglected practice in the district. That's why the economic condition of major population of the rural mass is measurable. Due to poor condition of farming community they do not support their children for imparting education for longer period. This situation favours in increase in number of school dropouts in rural areas. Majority of them become road urchins or involve themselves in illegal coal trading.

The KVK, Dhanbad has been working in the interest of farming community of the district since its interception in 2004 – 05. To involve the rural youth in different types of socio-economic entrepreneurship, several training programmes are conducted by KVK. Mushroom cultivation has been proved one of the beneficial and low input required entrepreneur for rural youths in Dhanbad district .

#### **Efforts of KVK :**

A training schedule was prepared by KVK and informed to the interested rural youths telephonically or through daily news papers. On an average 20 youths were trained in one batch of 7 days training programmes.

#### **Training programme on mushroom production**

| Year    | No. of training | Duration of training | No. of beneficiaries | No. of unit developed | Benefit ( Rs./Unit) |
|---------|-----------------|----------------------|----------------------|-----------------------|---------------------|
| 2006-07 | 02              | 7 days               | 43                   | 1                     | 1560.00             |
| 2007-08 | 02              | 7 days               | 47                   | 4                     | 2625.00             |
| 2008-09 | 09              | 7 days               | 244                  | 9                     | 2824.00             |

**Result:**

Year wise production was found also in ascending order from 162 kg during first year to 4444kg during third year 2008-09, in total 5957 kg till date. An increasing trend has been found in net income generation from Rs.1560 / unit / month during 2006-07 to Rs.2820 / unit / month during 2008-09. These data itself tells the success story of mushroom production entrepreneurship that has been attracted the rural youths of the district for upliftment of their socio – economic condition and are encouraging others to follow them.

The details of successful units are mentioned here under:

**Name, address, production and benefits of established Mushroom unit**

| Year of establishment | Name of Mushroom unit        | Village      | Block      | Mushroom production ( Kg / month) | Benefits (Rs./unit/month) |
|-----------------------|------------------------------|--------------|------------|-----------------------------------|---------------------------|
| 2006-07               | Putki Mushroom center        | Putki        | Baghmara   | 26.00                             | 1560.00                   |
| 2007-08               | Bhuifore Mushroom unit       | Bank colony  | Dhanbad    | 38.00                             | 2280.00                   |
|                       | Pandeydih tola Mushroom unit | Purana tola  | Baliapur   | 17.00                             | 1020.00                   |
|                       | Akabar Mushroom center       | Dudhia       | Baliapur   | 80.00                             | 4800.00                   |
|                       | Mushroom utpadan unit        | Baradaha     | Baliapur   | 40.00                             | 2400.00                   |
| 2008-09               | Banarjee Mushroom center     | Dhanbad      | Dhanbad    | 60.00                             | 3600.00                   |
|                       | Sai Mushroom                 | Purana Bazar | Dhanbad    | 120.00                            | 7200.00                   |
|                       | Village Mushroom             | Tilabani     | Jharia     | 40.00                             | 2400.00                   |
|                       | Tilabani Mushroom            | Tilabani     | Jharia     | 62.00                             | 3720.00                   |
|                       | Ram Mushroom                 | Topchanchi   | Topchanchi | 16.00                             | 960.00                    |
|                       | Jagriti Mushroom utpadan     | Baghmara     | Baghmara   | 40.00                             | 2400.00                   |
|                       | Mahto Mushroom utpadan       | Palani       | Baliapur   | 15.00                             | 900.00                    |
|                       | Katras Mushroom utpadan      | Katras       | Baghmara   | 30.00                             | 1800.00                   |
|                       | Mahila Mushroom utpadan      | Pipaltanrh   | Baghmara   | 40.00                             | 2440.00                   |

**Year wise production and productivity**

| No. of unit  | Production* (Kg) |         |         |       | Productivity (Kg/unit/month) |         |         |         |
|--------------|------------------|---------|---------|-------|------------------------------|---------|---------|---------|
|              | 2006-07          | 2007-08 | 2008-09 | Total | 2006-07                      | 2007-08 | 2008-09 | Average |
| 1            | 162              | 178     | 206     | 546   | 23.1                         | 25.4    | 29.4    | 26.0    |
| 4            | -                | 1173    | 1277    | 2450  | -                            | 41.9    | 45.6    | 43.8    |
| 9            | -                | -       | 2961    | 2961  | -                            | -       | 47.0    | 47.0    |
| <b>Total</b> | 162              | 1351    | 4444    | 5957  | 23.1                         | 38.6    | 45.3    |         |

\*Production duration – 7 months (September to March)

### Impact:

After getting training from KVK, Dhanbad, the trainees were started mushroom production at their own house at village level. Some of them sustained in mushroom farming with regular consultation with KVK. Due to the effort of KVK, Dhanbad 1 mushroom production unit during 2006-07, 4 during 2007-08 and 9 during 2008-09, total – 14 have been established. The adoption percentage varied from 9.30 in 2006-07 to 9.02 in 2008-09.

#### Impact of training programme on mushroom production

| Year    | No. of training imparted | No. of beneficiary |        |       | Duration (Day) | Percent of adoption # |
|---------|--------------------------|--------------------|--------|-------|----------------|-----------------------|
|         |                          | Male               | Female | Total |                |                       |
| 2006-07 | 2                        | 28                 | 15     | 43    | 7              | 9.30                  |
| 2007-08 | 2                        | 35                 | 12     | 47    | 7              | 8.52                  |
| 2008-09 | 9                        | 215                | 29     | 244   | 7              | 9.02                  |

# Percentage of adoption was calculated on the basis of persons engaged per unit.

#### Increasing trend of mushroom production

| Year    | No. of unit developed | No. of villages | Total production (Kg) | Average net return (Rs./unit/month) |
|---------|-----------------------|-----------------|-----------------------|-------------------------------------|
| 2006-07 | 1                     | 1               | 546                   | 1560                                |
| 2007-08 | 4                     | 3               | 2450                  | 2625                                |
| 2008-09 | 9                     | 5               | 2961                  | 2820                                |











**3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year**

**3.9**

**3.10 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)**

| S. No. | Crop / Enterprise | ITK Practiced | Purpose of ITK |
|--------|-------------------|---------------|----------------|
|        |                   |               |                |

**3.10 Indicate the specific training need analysis tools/methodology followed for**

- Identification of courses for farmers/farm women
- Rural Youth
- In-service personnel

**3.11 Field activities**

- |      |                               |   |                                    |
|------|-------------------------------|---|------------------------------------|
| i.   | Number of villages adopted    | - | 3 (Palani, Karitanr and Sindurpur) |
| ii.  | No. of farm families selected | - | 200 + 65                           |
| iii. | No. of survey/PRA conducted   | - | 1                                  |

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

Status of establishment of Lab :

1. Year of establishment : 2007, but function from Feb 2008
2. List of equipments purchased with amount :

| Sl. No | Name of the Equipment              | Qty. | Cost  |
|--------|------------------------------------|------|-------|
| 1      | pH meter                           | 1    | 9500  |
| 2      | Spectrometer                       | 1    | 52550 |
| 3      | Flame photometer                   | 1    | 52350 |
| 4.     | Conductivity meter                 | 1    | 12000 |
| 5.     | Electronic balance                 | 1    | 56000 |
| 6.     | High speed soil stirrer            | 1    | 14900 |
| 7.     | 200 D sine pan dhorca              | 1    | 13500 |
| 8.     | Eco Still eco 20 D qualigen        | 1    | 26500 |
| 9.     | QSB 50 min quartz distillation set | 1    | 48000 |
| 10.    | KDTG kjeld distillation set        | 1    | 19800 |
| 11.    | Rotation shaker                    | 1    | 24900 |
| 12.    | Hot oven                           | 1    | 4800  |
| 13.    | Hot plate                          | 1    | 10900 |
| 14.    | Water bath                         | 1    | 18900 |
| 15.    | Digital balance                    | 1    | 6500  |

3. Details of samples analyzed so far :

| Details       | No. of Samples | No. of Farmers | No. of Villages | Amount realized |
|---------------|----------------|----------------|-----------------|-----------------|
| Soil Samples  | 436            | 436            | -               | -               |
| Water Samples | -              | -              | -               | -               |
| Total         | 436            | 436            | -               | -               |

## 4.0. IMPACT

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

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) |                  |
|-----------------------------------------------|---------------------|---------------|------------------------|------------------|
|                                               |                     |               | Before (Rs./Unit)      | After (Rs./Unit) |
|                                               |                     |               |                        |                  |

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

### 4.2. Cases of large scale adoption (Please furnish detailed information for each case)

### 4.3 Details of impact analysis of KVK activities carried out during the reporting period

## 5.0 LINKAGES

### 5.1 Functional linkage with different organizations

| S.N. | Name of organization                      | Nature of linkage                                    |
|------|-------------------------------------------|------------------------------------------------------|
| 1.   | DRDA, Dhanbad                             | Infrastructure & sponsored training programme.       |
| 2.   | District Agriculture Office, Dhanbad      | Participation in training, FLD, Joint survey.        |
| 3.   | District Animal Husbandry Office, Dhanbad | Joint training programme & participation in meeting. |
| 4.   | District Fisheries Office, Dhanbad        | Joint training programme & participation in meeting. |
| 5.   | District Horticulture Office, Dhanbad     | Joint training programme & participation in meeting. |
| 6.   | District Plant Protection Office, Dhanbad | Joint diagnostic survey & participation in meeting.  |

|     |                                                                                 |                                                                               |
|-----|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 7.  | District Forest Office, Dhanbad                                                 | Participation in meeting.                                                     |
| 8.  | Agricultural produce market committee (Bazaar Samiti), Dhanbad.                 | Joint training programme, participation in meeting & joint Krishak Gosthi.    |
| 9.  | Lead Bank Manager office, Dhanbad                                               | Financial support from banks to trained persons for entrepreneur development. |
| 10. | Zonal Office, Bank of India Dhanbad                                             | Financial support from banks to trained persons for entrepreneur development. |
| 11. | NABARD, Dhanbad.                                                                | Formation of SHG, Kisan Club & Training.                                      |
| 12. | Tata Steel Rural Development Society, Dhanbad.                                  | Joint training programme & participation in meeting.                          |
| 13. | Alamin Gramin Mahila Sishu Kalyan Kendra, Jharkhand State Office, Kanke, Ranchi | Joint training programme.                                                     |
| 14. | Krishi Bikash Shilpa Kendra, Birbhum(W.B)                                       | Joint training programme.                                                     |

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

## 5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

| Name of the scheme                      | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|-----------------------------------------|---------------------------|----------------|--------------|
| Crop production for drought mitigation  |                           |                |              |
| Crop production                         |                           |                |              |
| SHG Group Leaders                       |                           |                |              |
| Kharif & Rabi crop production technique |                           |                |              |
| SGSRY scheme                            |                           |                |              |

a) Is ATMA implemented in your district Yes.

| S. No. | Programme                                                                               | Nature of linkage         | Remarks                                                                                                 |
|--------|-----------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------|
| 1.     | Meeting for formulation of SREP.                                                        | Participation in meeting. | Committee constituted for formulation of SREP.                                                          |
| 2.     | Meeting for conducting training & FLD.                                                  | Participation in meeting. | No further action taken by PD, ATMA in this regard.                                                     |
| 3.     | Meeting for conducting farmers – scientists interaction programmes, gosthi, field days. | Participation in meeting. | Budget of 1.5 lacs sanctioned for FLD , farmers – scientists interaction programmes, gosthi, field days |

## 5.4 Give details of programmes implemented under National Horticultural Mission

| S. No. | Programme                                     | Nature of linkage | Constraints if any                                         |
|--------|-----------------------------------------------|-------------------|------------------------------------------------------------|
| 1.     | Mother plant nursery established in 1 hectare | Financial support | No further contingency released for nursery establishment. |

## 5.5 Nature of linkage with National Fisheries Development Board

| S. No. | Programme | Nature of linkage | Remarks |
|--------|-----------|-------------------|---------|
| -      | -         | -                 | -       |

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

### 6.1 Performance of demonstration units (other than instructional farm)

| Sl. No. | Demo Unit                      | Year of estt. | Area | Details of production                                                                                                                                                                                                                                                                                        |          |            | Amount (Rs.)   |              | Remarks |
|---------|--------------------------------|---------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------------|--------------|---------|
|         |                                |               |      | Variety                                                                                                                                                                                                                                                                                                      | Produce  | Qty.       | Cost of inputs | Gross income |         |
| 1.      | <b>Progeny Orchard</b>         | 2006          | 1 ha | <b>MANGO-</b> Langra, Maldha, Dasheri, Amrapali, Mallika, <b>ANOLA- N-6, N-10 Krishna, kanchan, Chakiya</b><br><b>GUAVA-</b> L-49, Allahabad Safeda, Lalit, Arkamridula, Prantprabhat<br><b>BEL- CHIS 1, 2, NB 5, Pant urvarshi, Pant Shivani,</b><br><b>BER-</b> Gola<br><b>LEMON-</b> Pant lemon , K lemon | -        | -          | -              | -            | -       |
| 2.      | <b>Tissue culture</b>          | 2007          | -    | <b>Banana – Grand nine, Robusta, Martman</b>                                                                                                                                                                                                                                                                 | Plant    | 2844 no.   | -              | 28840        | -       |
| 3.      | <b>Biofertilizer unit</b>      | -             | -    | <b>Yet to be started</b>                                                                                                                                                                                                                                                                                     | -        | -          | -              | -            | -       |
| 4.      | <b>Mushroom unit</b>           | 2007          | -    | <b>Oyster</b>                                                                                                                                                                                                                                                                                                | Mushroom | 65 Kg      | -              | 3904         | -       |
| 5.      | <b>Value addition</b>          | 2007          | -    | <b>Training started</b>                                                                                                                                                                                                                                                                                      | -        | -          | -              | -            | -       |
| 6.      | <b>Sewing &amp; knitting</b>   | 2007          | -    | <b>Training started</b>                                                                                                                                                                                                                                                                                      | -        | -          | -              | -            | -       |
| 7.      | <b>Seed processing</b>         | 2007          | -    | <b>Paddy, Pigeon pea, Chick pea</b>                                                                                                                                                                                                                                                                          |          | 349 qt.    | -              | -            | -       |
| 8.      | <b>Soil testing laboratory</b> | 2007          | -    |                                                                                                                                                                                                                                                                                                              | -        | 291 sample | -              | -            | -       |

### 6.2 Performance of instructional farm (Crops) including seed production

| Name Of the crop           | Date of sowing   | Date of harvest   | Area (ha) | Details of production |                 |          | Amount (Rs.)   |              | Remarks |
|----------------------------|------------------|-------------------|-----------|-----------------------|-----------------|----------|----------------|--------------|---------|
|                            |                  |                   |           | Variety               | Type of Produce | Qty. (q) | Cost of inputs | Gross income |         |
| <b>Cereals (Paddy)</b>     | 02.06.09         | 20.11.09          | 0.5       | BPT 5204              | F/S             | 18.0     | 18390          | 32400        |         |
| -do-                       | 10.06.09         | 26.11.09-01.12.09 | 1.5       | MTU 7029              | F/S             | 45       | 49471          | 81000        |         |
|                            | 16.06.09         | 03.11.09-04.11.09 | 0.5       | Lalat                 | F/S             | 18       | 19315          | 32400        |         |
| Wheat                      | 27.11.09-4.12.09 | -                 | 1.0       | K 9107                | C/S             | 2        | 5800           | 3200         |         |
| <b>Pulses (Pigeon pea)</b> | 24.06.08         | 18.03.09          | 0.4       | Bahar                 | C/S             | 0.95     | 7491           | 4275         |         |
|                            | Ratoon           | 29.01.09          | 0.2       | Birsa Arhar 1         | T/L             | 0.12     | 1300           | 480          |         |
| Chick pea                  | 27.10.09         | -                 | 0.4       | P-362                 | C/S             | -        | -              | -            |         |

|                                      |               |          |     |                   |     |      |       |      |                                        |
|--------------------------------------|---------------|----------|-----|-------------------|-----|------|-------|------|----------------------------------------|
| <b>Oilseeds</b>                      |               |          |     |                   |     |      |       |      |                                        |
| Niger                                | 03.09.09      | 7.01.10  | 0.4 | Birsa Niger 1     | T/L | -    | -     | -    | -                                      |
| Ground Nut                           | 30.05.09      | 5.12.09  | 0.4 | Birsa Bold        | T/L | 1.5  | 18000 | 5250 |                                        |
| Mustard                              | 31.10.09      | -        | 0.4 | Shivani           | C/S | -    | -     | -    | -                                      |
| <b>Fibers</b>                        |               |          |     |                   |     |      |       |      |                                        |
|                                      |               |          |     |                   |     |      |       |      |                                        |
| <b>Spices &amp; Plantation crops</b> |               |          |     |                   |     |      |       |      |                                        |
|                                      |               |          |     |                   |     |      |       |      |                                        |
| <b>Floriculture</b>                  |               |          |     |                   |     |      |       |      |                                        |
| Gladiolus                            | 10 - 15.09.08 | -        | 0.1 | Different variety | -   | -    | -     | -    | -                                      |
| Fruits                               |               |          |     |                   |     |      |       |      |                                        |
| <b>Vegetables</b><br>(French bean)   | 16.10.08      | 04.02.09 | 0.4 | Arka komal        | T/L | 0.14 | 3550  | 675  | Poor growth due to poor soil fertility |
| Pea                                  | 14.10.08      | 06.02.09 | 0.6 | Azad p-1          | T/L | 0.30 | 5718  | 1500 | Poor growth due to poor soil fertility |
| <b>Others (specify)</b>              |               |          |     |                   |     |      |       |      |                                        |

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

| Sl. No. | Name of the Product | Qty | Amount (Rs.)   |              | Remarks |
|---------|---------------------|-----|----------------|--------------|---------|
|         |                     |     | Cost of inputs | Gross income |         |
|         |                     |     |                |              |         |

### 6.4 Performance of instructional farm (livestock and fisheries production)

| Sl. No | Name of the animal / bird / aquatics | Details of production |                 |      | Amount (Rs.)   |              | Remarks |
|--------|--------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|
|        |                                      | Breed                 | Type of Produce | Qty. | Cost of inputs | Gross income |         |
|        |                                      |                       |                 |      |                |              |         |

### 6.5 Utilization of hostel facilities

Accommodation available (No. of beds)

| Months         | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|----------------|------------------------|----------------------------|--------------------------------|
| April 2010     | 95                     | 7                          | -                              |
| May 2010       | 241                    | 7                          | -                              |
| June 2010      | 37                     | 7                          | -                              |
| July 2010      | -                      | -                          | -                              |
| August 2010    | 13                     | 7                          | -                              |
| September 2010 | 25                     | 7                          |                                |
| October 2010   | 59                     | 7                          | -                              |
| November 2010  | 14                     | 7                          | -                              |
|                |                        |                            |                                |
|                |                        |                            |                                |
|                |                        |                            |                                |
|                |                        |                            |                                |

(For whole of the year)

## 7. FINANCIAL PERFORMANCE

### 7.1 Details of KVK Bank accounts

| Bank account        | Name of the bank    | Location            | Account Number |
|---------------------|---------------------|---------------------|----------------|
| With Host Institute | State Bank of India | Gandhinagar, Ranchi | 10106155418    |
| With KVK            | State Bank of India | Hirapur, Dhanbad    | 10900477204    |

### 7.2 Utilization of funds under FLD on Oilseed (*Rs. In Lakhs*)

| Item                 | Released by ICAR |              | Expenditure |              | Unspent balance as on 31 <sup>st</sup> January 2010 |
|----------------------|------------------|--------------|-------------|--------------|-----------------------------------------------------|
|                      | Kharif 2009      | Rabi 2009-10 | Kharif 2009 | Rabi 2009-10 |                                                     |
| Inputs               | 42000            | 42000        | 70000       | 70000        |                                                     |
| Extension activities | 6000             | 6000         | 10000       | 10000        | Nil                                                 |
| TA/DA/POL etc.       | 9000             | 9000         | 15000       | 15000        |                                                     |
| TOTAL                | 57000            | 57000        | 95000       | 95000        |                                                     |

### 7.3 Utilization of funds under FLD on Pulses (*Rs. In Lakhs*)

| Item                 | Released by ICAR |              | Expenditure |              | Unspent balance as on 1 <sup>st</sup> April 2009 |
|----------------------|------------------|--------------|-------------|--------------|--------------------------------------------------|
|                      | Kharif 2009      | Rabi 2009-10 | Kharif 2009 | Rabi 2009-10 |                                                  |
| Inputs               | 77000            | 52500        | 77000       | 52500        |                                                  |
| Extension activities | 11000            | 7500         | 11000       | 7500         | NIL                                              |
| TA/DA/POL etc.       | 16500            | 11250        | 16500       | 11250        |                                                  |
| TOTAL                | 104500           | 71250        | 104500      | 71250        |                                                  |

### 7.4 Utilization of funds under FLD on Cotton (*Rs. In Lakhs*)

| Item                 | Released by ICAR |              | Expenditure |              | Unspent balance as on 1 <sup>st</sup> April 2009 |
|----------------------|------------------|--------------|-------------|--------------|--------------------------------------------------|
|                      | Kharif 2007      | Rabi 2007-08 | Kharif 2007 | Rabi 2007-08 |                                                  |
| Inputs               |                  |              |             |              |                                                  |
| Extension activities |                  |              |             |              |                                                  |
| TA/DA/POL etc.       |                  |              |             |              |                                                  |
| TOTAL                |                  |              |             |              |                                                  |

### 7.5 Utilization of KVK funds during the year 2008 - 2009 (year-wise separately) (current year and previous year)

| S.No.                             | Particulars                                                                                                                                                    | Sanctioned In lakhs | Released In lakhs | Expenditure In lakhs |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|----------------------|
| <b>A. Recurring Contingencies</b> |                                                                                                                                                                |                     |                   |                      |
| 1                                 | <b>Pay &amp; Allowances</b>                                                                                                                                    | 33.00               |                   | 28.11                |
| 2                                 | <b>Traveling allowances</b>                                                                                                                                    | 1.00                |                   | 0.25                 |
| 3                                 | <b>Contingencies</b>                                                                                                                                           |                     |                   |                      |
| A                                 | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | 2.25                |                   | 2.10                 |
| B                                 | POL, repair of vehicles, tractor and equipments                                                                                                                |                     |                   |                      |
| C                                 | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)                                                                                  | 2.90                |                   | 2.40                 |
| D                                 | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)                                      |                     |                   |                      |

|                  |                                                                                                                                |              |  |              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------|--|--------------|
| <i>E</i>         | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)                                     | 0.60         |  | 0.60         |
| <i>F</i>         | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | 0.75         |  | 0.60         |
| <i>G</i>         | Training of extension functionaries                                                                                            |              |  |              |
| <i>H</i>         | Maintenance of buildings                                                                                                       |              |  |              |
| <i>I</i>         | Establishment of Soil, Plant & Water Testing Laboratory                                                                        |              |  |              |
| <i>J</i>         | Library                                                                                                                        |              |  |              |
| <b>TOTAL (A)</b> |                                                                                                                                | <b>40.50</b> |  | <b>34.06</b> |

|                                       |                                                                   |              |  |  |
|---------------------------------------|-------------------------------------------------------------------|--------------|--|--|
| <b>B. Non-Recurring Contingencies</b> |                                                                   |              |  |  |
| 1                                     | <b>Works</b>                                                      | 2.50         |  |  |
| 2                                     | <b>Equipments including LCD Rs. 1 lakh and generator Rs. 0.50</b> | 1.50         |  |  |
| 3                                     | <b>Vehicle</b> (Four wheeler/Two wheeler, please specify)         |              |  |  |
| 4                                     | <b>Library</b> (Purchase of assets like books & journals)         | 0.05         |  |  |
| <b>TOTAL (B)</b>                      |                                                                   | <b>4.05</b>  |  |  |
| <b>C. REVOLVING FUND</b>              |                                                                   |              |  |  |
| <b>GRAND TOTAL (A+B+C)</b>            |                                                                   | <b>44.55</b> |  |  |

#### 7.6 Status of revolving fund (Rs. in lakhs) for the three years

| <b>Year</b>              | <b>Opening balance as on 1<sup>st</sup> April</b> | <b>Income during the year</b>                              | <b>Expenditure during the year</b> | <b>Net balance in hand as on 1<sup>st</sup> April of each year</b> |
|--------------------------|---------------------------------------------------|------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------|
| April 2004 to March 2005 | -                                                 | -                                                          | -                                  | -                                                                  |
| April 2005 to March 2006 | 100000                                            | 1800                                                       | 55045                              | 46755                                                              |
| April 2006 to March 2007 | 46755                                             | 21231 + (129068 received from Director Seeds & Farms, BAU) | 92268                              | 99786                                                              |
| April 2007 to March 2008 | 99786                                             | 65964                                                      | 97200                              | 68550                                                              |
| April 2008 to March 2009 | 68550                                             | 225458 + (72000 received from Director Seeds & Farms, BAU) | 190252                             | 175756                                                             |
| April 09 to March 10     | 175756                                            | 196914                                                     | 196000                             | -                                                                  |

### 8. Please include information which has not been reflected above (write in detail).

#### 8.1 Constraints

(a) Administrative (b) Financial (c) Technical

## SUMMARY TABLES

### 1 Details of Technology assessment and refinement

**Table 1A: Abstract on the number of technologies assessed in respect of crops**

| Thematic areas                            | Cereals  | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | Others   | TOTAL     |
|-------------------------------------------|----------|----------|--------|------------------|------------|--------|--------|------------------|-------------|----------|-----------|
| Varietal Evaluation                       | 2        |          |        |                  | 2          |        |        |                  |             |          | 4         |
| Seed / Plant production                   |          |          |        |                  |            |        |        |                  |             |          |           |
| Weed Management                           | 1        |          |        |                  |            |        |        |                  |             |          | 1         |
| Integrated Crop Management                |          |          |        |                  |            |        |        |                  |             |          |           |
| Integrated Nutrient Management            | 1        |          |        |                  |            |        |        |                  |             |          | 1         |
| Integrated Farming System                 |          |          |        |                  |            |        |        |                  |             |          |           |
| Mushroom cultivation                      |          |          |        |                  |            |        |        |                  |             |          |           |
| Drudgery reduction                        | 1        |          |        |                  |            |        |        |                  |             |          | 1         |
| Farm machineries                          |          |          |        |                  |            |        |        |                  |             |          |           |
| Value addition                            |          |          |        |                  |            |        |        |                  |             |          |           |
| Integrated Pest Management                |          |          |        |                  |            |        |        |                  |             |          |           |
| Integrated Disease Management             |          |          |        |                  | 2          |        |        |                  |             |          | 2         |
| Resource conservation technology          |          |          |        |                  | 1          |        |        |                  |             |          | 1         |
| Small Scale income generating enterprises |          |          |        |                  | 1          |        |        |                  |             |          | 1         |
| Others                                    |          |          |        |                  |            |        |        |                  |             | 1        | 1         |
| <b>TOTAL</b>                              | <b>5</b> |          |        |                  | <b>6</b>   |        |        |                  |             | <b>1</b> | <b>12</b> |

**Table 1 B; Abstract on the number of technologies refined in respect of crops :**

Not done

| Thematic areas             | Cereals | Oilseeds | Pulses | Commercial Crops | Vegetables | Fruits | Flower | Plantation crops | Tuber Crops | others | TOTAL |
|----------------------------|---------|----------|--------|------------------|------------|--------|--------|------------------|-------------|--------|-------|
| Varietal Evaluation        | 2       |          |        |                  | 2          |        |        |                  |             |        | 4     |
| Seed / Plant production    |         |          |        |                  |            |        |        |                  |             |        |       |
| Weed Management            | 1       |          |        |                  |            |        |        |                  |             |        | 1     |
| Integrated Crop Management |         |          |        |                  |            |        |        |                  |             |        |       |

|                                           |   |  |  |  |   |  |  |  |  |   |   |
|-------------------------------------------|---|--|--|--|---|--|--|--|--|---|---|
| Integrated Nutrient Management            | 1 |  |  |  |   |  |  |  |  |   | 1 |
| Integrated Farming System                 |   |  |  |  |   |  |  |  |  |   |   |
| Mushroom cultivation                      |   |  |  |  |   |  |  |  |  |   |   |
| Drudgery reduction                        |   |  |  |  |   |  |  |  |  |   |   |
| Farm machineries                          |   |  |  |  |   |  |  |  |  |   |   |
| Post Harvest Technology                   |   |  |  |  |   |  |  |  |  |   |   |
| Integrated Pest Management                |   |  |  |  |   |  |  |  |  |   |   |
| Integrated Disease Management             |   |  |  |  | 1 |  |  |  |  |   | 1 |
| Resource conservation technology          |   |  |  |  |   |  |  |  |  |   |   |
| Small Scale income generating enterprises |   |  |  |  |   |  |  |  |  |   |   |
| <b>Others</b>                             |   |  |  |  |   |  |  |  |  | 1 | 1 |
| <b>TOTAL</b>                              | 4 |  |  |  | 3 |  |  |  |  | 1 | 8 |

**Table 1 C: Abstract on the number of technologies assessed in respect of livestock enterprises: Not done**

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

**Table 1 D: Abstract on the number of technologies refined in respect of livestock enterprises: Not done**

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

**Table – 1 E Details of technology refined: Not done**

| Crop / Enterprise | Technology Assessed | No. replications | Technology refined | Result justifying the refinement |
|-------------------|---------------------|------------------|--------------------|----------------------------------|
|                   |                     |                  |                    |                                  |

## 2. Details of Frontline Demonstrations

**Table – 2 A Front Line Demonstrations on Oilseed Crops (Kharif, Rabi & Summer 2008-09):**

### Kharif – 2009

| Crop      | Technology Demonstrated | No. of Farmers | Area (ha.) | Demo. Yield (q/ha) | Local Check (q/ha) | Increase in yield (%) | Data on parameter in relation to technology demonstrated |                    | Average Net Return (Profit) (Rs./ha) |       | Benefit-Cost Ratio (Gross Return / Gross Cost) |        |
|-----------|-------------------------|----------------|------------|--------------------|--------------------|-----------------------|----------------------------------------------------------|--------------------|--------------------------------------|-------|------------------------------------------------|--------|
|           |                         |                |            |                    |                    |                       | Demo                                                     | Local              | Demo                                 | Local | Demo                                           | Local  |
| Sesame    | Variety-Kanke Safed     | 24             | 5          | 2.92               | 2.1                | 39                    | Yield & net profit                                       | Yield & net profit | 4561                                 | 1161  | 1:1.13                                         | 1:1.1  |
| Groundnut | Variety TG-22           | 32             | 5          | 11.08              | 8.1                | 37                    | Yield & net profit                                       | Yield & net profit | 5075                                 | 3000  | 1:1.2                                          | 1:1.17 |
| Niger     | Variety Birsa Niger – 1 | 27             | 2          | 3.7                | 2.1                | 76.2                  | Yield & net profit                                       | Yield & net profit | 6250                                 | 1700  | 1:1.6                                          | 1:1.2  |

### Rabi – 2009

| Crop | Technology Demonstrated | No. of Farmers | Area (ha.) | Demo. Yield (q/ha) | Local Check (q/ha) | Increase in yield (%) | Data on parameter in relation to technology demonstrated |       | Average Net Return (Profit) (Rs./ha) |       | Benefit-Cost Ratio (Gross Return / Gross Cost) |       |
|------|-------------------------|----------------|------------|--------------------|--------------------|-----------------------|----------------------------------------------------------|-------|--------------------------------------|-------|------------------------------------------------|-------|
|      |                         |                |            |                    |                    |                       | Demo                                                     | Local | Demo                                 | Local | Demo                                           | Local |
|      |                         |                |            |                    |                    |                       |                                                          |       |                                      |       |                                                |       |

**Table – 2 B Front Line Demonstrations on Pulse Crops**

### Kharif – 2009

| Crop       | Technology Demonstrated        | No. of Farmers | Area (ha.) | Demo. Yield | Local Check | Increase in yield (%) | Data on parameter in relation to technology demonstrated |       | Average Net Return (Profit) (Rs./ha) |       | Benefit-Cost Ratio (Gross Return / Gross Cost) |        |
|------------|--------------------------------|----------------|------------|-------------|-------------|-----------------------|----------------------------------------------------------|-------|--------------------------------------|-------|------------------------------------------------|--------|
|            |                                |                |            |             |             |                       | Demo                                                     | Local | Demo                                 | Local | Demo                                           | Local  |
| Black Gram | Variety Uttara                 | 43             | 5          | 6.58        | 5.1         | 29                    | 16400                                                    | 8250  | 4561                                 | 1161  | 1:1.3                                          | 1:1.1  |
| Green gram | Variety PDM-139                | 22             | 2          | 4.92        | 3.6         | 37                    | 17430                                                    | 8345  | 5657                                 | 1011  | 1:1.6                                          | 1:1.11 |
| Horse gram | Variety Birsa Kulthi – 1       | 24             | 5          | 5.2         | 3.1         | 68                    | 13816                                                    | 7991  | 5986                                 | 911   | 1:1.7                                          | 1:1.11 |
| Red Gram   | Variety Birsa Arhar – 1 & Asha | 46             | 10         | 6.34        | 5.2         | 21.9                  | 23600                                                    | 19140 | 6250                                 | 1700  | 1:1.6                                          | 1:1.2  |

**Table – 2 C. Front Line Demonstrations on other Crops**

### Kharif – 2009

| Crop | Technology Demonstrated | No. of Farmers | Area (ha.) | Demo. Yield | Local Check | Increase in yield (%) | Data on parameter in relation to technology demonstrated |                    | Average Net Return (Profit) (Rs./ha) |       | Benefit-Cost Ratio (Gross Return / Gross Cost) |       |
|------|-------------------------|----------------|------------|-------------|-------------|-----------------------|----------------------------------------------------------|--------------------|--------------------------------------|-------|------------------------------------------------|-------|
|      |                         |                |            |             |             |                       | Demo                                                     | Local              | Demo                                 | Local | Demo                                           | Local |
| Rice | Variety BPT-5204        | 3              | 2.5        | 44.2        | 36.5        | 18.36                 | Yield & net profit                                       | Yield & net profit | 12800                                | 10200 | 1.72                                           | 1.54  |

### Hybrid: Vegetable (Kharif – 2009)

| Crop | Technology Demonstrated | No. of Farmers | Area (ha.) | Demo. Yield | Local Check | Increase in yield (%) | Data on parameter in relation to technology demonstrated |       | Average Net Return (Profit) (Rs./ha) |       | Benefit-Cost Ratio (Gross Return / Gross Cost) |       |
|------|-------------------------|----------------|------------|-------------|-------------|-----------------------|----------------------------------------------------------|-------|--------------------------------------|-------|------------------------------------------------|-------|
|      |                         |                |            |             |             |                       | Demo                                                     | Local | Demo                                 | Local | Demo                                           | Local |
|      |                         |                |            |             |             |                       |                                                          |       |                                      |       |                                                |       |
|      |                         |                |            |             |             |                       |                                                          |       |                                      |       |                                                |       |

### Rabi – 2009 – 10

| Crop    | Technology Demonstrated  | No. of Farmers | Area (ha.) | Demo. Yield (q/ha) | Local Check (q/ha) | Increase in yield (%) | Data on parameter in relation to technology demonstrated |                    | Average Net Return (Profit) (Rs./ha) |       | Benefit-Cost Ratio (Gross Return / Gross Cost) |       |
|---------|--------------------------|----------------|------------|--------------------|--------------------|-----------------------|----------------------------------------------------------|--------------------|--------------------------------------|-------|------------------------------------------------|-------|
|         |                          |                |            |                    |                    |                       | Demo                                                     | Local              | Demo                                 | Local | Demo                                           | Local |
| Tomato  | Variety – Swarna Sampada | 70             | 2.00       | 794.8              | 636.1              | 25.0                  |                                                          | Yield & net profit | 111860                               | 81120 | 3.37                                           | 2.76  |
| Brinjal | Variety Swarna Shobha    | 41             | 2.00       | 430.0              | 330.0              | 30.0                  |                                                          | Yield & net profit | 90140                                | 70900 | 3.72                                           | 3.17  |

**Table – 2 D Front Line Demonstrations on Other enterprises:** Not done

| Enterprise | Variety/ breed/Species/others | No. of farmers | No. of Units | Size of Unit | Parameter indicators | Data on parameter in relation to technology demonstrated |             | % change in the parameter | Remarks |
|------------|-------------------------------|----------------|--------------|--------------|----------------------|----------------------------------------------------------|-------------|---------------------------|---------|
|            |                               |                |              |              |                      | Demon.                                                   | Local check |                           |         |

### 3. Details of training programmes conducted:

**Table – 3 A. Area-wise distribution of On + Off Campus Training Courses for Farmers and Farm Women (regular + sponsored)**

| Thematic Area                      | No. of Course | No. of Participants |    |     |    |   |    |    |   |    |             |    |     |
|------------------------------------|---------------|---------------------|----|-----|----|---|----|----|---|----|-------------|----|-----|
|                                    |               | Others              |    |     | SC |   |    | ST |   |    | Grand Total |    |     |
|                                    |               | M                   | F  | T   | M  | F | T  | M  | F | T  | M           | F  | T   |
| Crop Production                    |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| Weed Management                    | 1             | 10                  | -  | 10  | 2  | - | 2  | -  | - | -  | 12          | -  | 12  |
| Resource Conservation Technologies | 3             | 59                  | -  | 59  | 4  | - | 4  | 4  | - | 4  | 67          | -  | 67  |
| Cropping Systems                   | 12            | 135                 | 16 | 151 | 76 | 7 | 83 | 42 | 9 | 51 | 253         | 32 | 285 |
| Crop Diversification               | 13            | 237                 | 5  | 242 | 22 | - | 22 | 20 | - | 20 | 279         | 5  | 248 |
| Integrated crop management         |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| Micro Irrigation/Irrigation        |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| Seed production                    | 4             | 129                 | -  | 129 | 3  | - | 3  | 10 | - | 10 | 142         | -  | 142 |
| Nursery management                 |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| Integrated Nutrient Management     |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| Fodder production                  |               |                     |    |     |    |   |    |    |   |    |             |    |     |
|                                    |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| Production of organic inputs       |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| Horticulture                       |               |                     |    |     |    |   |    |    |   |    |             |    |     |
| a) Vegetable Crops                 |               |                     |    |     |    |   |    |    |   |    |             |    |     |

|                                              |    |     |     |     |   |   |   |    |    |    |     |     |     |
|----------------------------------------------|----|-----|-----|-----|---|---|---|----|----|----|-----|-----|-----|
| Production of low value and high volume crop | 18 | 165 | 183 | 348 | 2 | 4 | 6 | 42 | 26 | 68 | 209 | 213 | 422 |
| Off-season vegetables                        |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Nursery raising                              |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Exotic vegetables                            |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Export potential vegetables                  |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Grading and standardization                  |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Protective cultivation                       |    |     |     |     |   |   |   |    |    |    |     |     |     |
| <b>b) Fruits</b>                             |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Training and Pruning                         |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Layout and Management of Orchards            |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Cultivation of Fruit                         | 1  | 5   | 4   | 9   | - | - | - | 8  | -  | 8  | 13  | 4   | 17  |
| 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  | 4  | 9   | 21  | 30  | - | - | - | 13 | -  | 13 | 22  | 21  | 43  |
| <b>d) Plantation crops</b>                   |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Production and Management technology         |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Processing and value addition                |    |     |     |     |   |   |   |    |    |    |     |     |     |
| <b>e) Tuber crops</b>                        |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Production and Management technology         | 1  | 8   | -   | 8   | 3 | - | 3 | 6  | -  | 6  | 17  | -   | 17  |
| 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>Soil Health and Fertility Management</b>  |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Soil fertility management                    |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Soil and Water Conservation                  |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Integrated nutrient management               | 2  | 28  | -   | 28  | 6 | - | 6 | 14 | -  | 14 | 48  | -   | 48  |
| Production and use of organic inputs         |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Management of Problematic soils              |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Micro nutrient deficiency in crops           |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Nutrient use efficiency                      |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Balanced use of fertilizers                  |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Soil and water testing                       |    |     |     |     |   |   |   |    |    |    |     |     |     |
| <b>Livestock Production and Management</b>   |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Dairy Management                             |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Poultry Management                           |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Piggery Management                           |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Goatry Management                            |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Disease Management                           |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Feed management                              |    |     |     |     |   |   |   |    |    |    |     |     |     |
| Production of quality animal products        |    |     |     |     |   |   |   |    |    |    |     |     |     |
| <b>Home Science/Women empowerment</b>        |    |     |     |     |   |   |   |    |    |    |     |     |     |

|                                                                      |   |    |    |    |   |    |    |    |   |    |    |    |    |
|----------------------------------------------------------------------|---|----|----|----|---|----|----|----|---|----|----|----|----|
| Household food security by kitchen gardening and nutrition gardening | 2 | -  | 28 | 28 | - | -  | -  | -  | - | -  | -  | 28 | 28 |
| Design and development of low/minimum cost diet                      |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Designing and development for high nutrient efficiency diet          | 1 | -  | 14 | 14 | - | -  | -  | -  | - | -  | -  | 14 | 14 |
| Minimization of nutrient loss in processing                          |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Processing and cooking                                               | 1 | -  | -  | -  | - | 17 | 17 | -  | - | -  | -  | 17 | 17 |
| Gender mainstreaming through SHGs                                    |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Storage loss minimization techniques                                 | 2 | -  | 35 | 35 | - | -  | -  | -  | - | -  | -  | 35 | 35 |
| Value addition                                                       |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Women empowerment                                                    |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Location specific drudgery production                                |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Rural Crafts                                                         | 4 | -  | 60 | 60 | - | -  | -  | -  | - | -  | -  | 60 | 60 |
| Women and child care                                                 |   |    |    |    |   |    |    |    |   |    |    |    |    |
| <b>Agril. Engineering</b>                                            |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Farm machinery and its maintenance                                   |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Installation and maintenance of micro irrigation systems             |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Use of Plastics in farming practices                                 |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Production of small tools and implements                             |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Rain water harvesting                                                | 1 | -  | -  | -  | - | -  | -  | 21 | - | 21 | 21 | -  | 21 |
| Repair and maintenance of farm machinery and implements              |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Small scale processing and value addition                            |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Post Harvest Technology                                              |   |    |    |    |   |    |    |    |   |    |    |    |    |
| <b>Plant Protection</b>                                              |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Integrated Pest Management                                           |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Integrated Disease Management                                        | 2 | 33 | -  | 33 | 1 | -  | 1  | 5  | - | 5  | 39 | -  | 39 |
| Bio-control of pests and diseases                                    |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Production of bio control agents and bio pesticides                  |   |    |    |    |   |    |    |    |   |    |    |    |    |
| <b>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>Production of Inputs at site</b>                                  |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Seed Production                                                      | 3 | 40 | 1  | 41 | - | -  | -  | 11 | 5 | 16 | 51 | 6  | 57 |
| Planting material production                                         | 1 | 11 | -  | 11 | - | -  | -  | 7  | - | 7  | 18 | -  | 18 |
| Bio-agents production                                                |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Bio-pesticides production                                            |   |    |    |    |   |    |    |    |   |    |    |    |    |
| Bio-fertilizer production                                            | 1 | 12 | -  | 12 | 2 | -  | 2  | -  | - | -  | 14 | -  | 14 |
| Vermi-compost production                                             | 1 | 16 | -  | 16 | - | -  | -  | 5  | 3 | 8  | 21 | 3  | 24 |
| 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>Capacity Building and Group Dynamics</b>   |           |             |            |             |            |           |            |            |           |            |             |            |             |
| Leadership development                        | 2         | 26          | -          | 26          | 3          | -         | 3          | -          | -         | -          | 29          | -          | 29          |
| Group dynamics                                | 1         | 23          | -          | 23          | -          | -         | -          | -          | -         | -          | 23          | -          | 23          |
| Formation and Management of SHGs              | 1         | 1           | 11         | 12          | -          | -         | -          | -          | 2         | 2          | 1           | 13         | 14          |
| Mobilization of social capital                | 5         | 70          | 26         | 96          | -          | -         | -          | 10         | -         | 10         | 80          | 26         | 106         |
| Entrepreneurial development of farmers/youths | 1         | -           | -          | -           | -          | -         | -          | -          | 17        | 17         | -           | 17         | 17          |
| WTO and IPR issue                             |           |             |            |             |            |           |            |            |           |            |             |            |             |
| <b>Agro-forestry</b>                          |           |             |            |             |            |           |            |            |           |            |             |            |             |
| Production technologies                       |           |             |            |             |            |           |            |            |           |            |             |            |             |
| Nursery management                            |           |             |            |             |            |           |            |            |           |            |             |            |             |
| Integrated Farming Systems                    |           |             |            |             |            |           |            |            |           |            |             |            |             |
| Others (Pl. specify)                          |           |             |            |             |            |           |            |            |           |            |             |            |             |
| <b>TOTAL</b>                                  | <b>88</b> | <b>1017</b> | <b>404</b> | <b>1421</b> | <b>124</b> | <b>28</b> | <b>152</b> | <b>218</b> | <b>62</b> | <b>280</b> | <b>1359</b> | <b>494</b> | <b>1853</b> |

**Table – 3 B Area-wise distributions of On + Off Campus Training Courses for Rural Youth (regular + sponsored + vocational)**

| Sponsored + Vocational)                                 |   | No. of Courses | No. of Participants |    |    |    |    |   |    |   |    |             |    |   |
|---------------------------------------------------------|---|----------------|---------------------|----|----|----|----|---|----|---|----|-------------|----|---|
| Thematic Area                                           |   |                | Others              |    |    | SC |    |   | ST |   |    | Grand Total |    |   |
|                                                         |   |                | M                   | F  | T  | M  | F  | T | M  | F | T  | M           | F  | T |
| <b>Crop Production</b>                                  |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Mushroom Production                                     | 5 | 75             | 6                   | 81 | 9  | -  | 9  | 8 | -  | 8 | 92 | 6           | 98 |   |
| Bee-keeping                                             |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Integrated farming                                      |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Seed production                                         |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Production of organic inputs                            |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Integrated Farming                                      |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Planting material production                            |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Vermi-culture                                           | 4 | 41             | 11                  | 42 | 7  | -  | 7  | 2 | -  | 2 | 50 | 11          | 61 |   |
| Sericulture                                             |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Protected cultivation of vegetable crops                |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Commercial fruit/Flower production                      |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Repair and maintenance of farm machinery and implements |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Nursery Management of Horticulture crops                |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Irrigation and water management                         |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Training and pruning of orchards                        |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Value addition                                          |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Production of quality animal products                   |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Dairying/ para extension worker                         |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Sheep and goat rearing                                  | 1 | -              | -                   | -  | 10 | -  | 10 | - | -  | - | 10 | -           | 10 |   |
| Quail farming                                           |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Piggery                                                 |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Rabbit farming                                          |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Poultry production                                      |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| Ornamental fisheries                                    |   |                |                     |    |    |    |    |   |    |   |    |             |    |   |
| 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                |           |            |           |            |           |          |           |           |          |           |            |           |            |
| Seed Production                        |           |            |           |            |           |          |           |           |          |           |            |           |            |
| <b>TOTAL</b>                           | <b>10</b> | <b>116</b> | <b>17</b> | <b>133</b> | <b>26</b> | <b>-</b> | <b>26</b> | <b>10</b> | <b>-</b> | <b>10</b> | <b>152</b> | <b>17</b> | <b>169</b> |

**Table – 3 C Area-wise distribution of On + Off Campus Training Courses for In-service Extension Personnel (regular + sponsored )**

| Thematic Area                                         | No. of Course | No. of Participants |           |           |          |          |          |          |          |          |             |           |           |
|-------------------------------------------------------|---------------|---------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|-------------|-----------|-----------|
|                                                       |               | Others              |           |           | SC       |          |          | ST       |          |          | Grand Total |           |           |
|                                                       |               | M                   | F         | T         | M        | F        | T        | M        | F        | T        | M           | F         | T         |
| Productivity enhancement in field crops               |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Integrated Pest Management                            |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Integrated Nutrient management                        |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Rejuvenation of old orchards                          |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Protected cultivation technology                      |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Formation and Management of SHGs                      | 2             | 9                   | 36        | 45        | -        | 1        | 1        | 1        | 4        | 5        | 10          | 41        | 51        |
| Group Dynamics and farmers organization               |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Information networking among farmers                  |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Capacity building for ICT application                 |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Care and maintenance of farm machinery and implements |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Management in farm animals                            |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Livestock feed and fodder production                  |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Household food security                               |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Women and Child care                                  |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Low cost and nutrient efficient diet designing        |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Production and use of organic inputs                  |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Gender mainstreaming through SHGs                     |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| Productivity enhancement in vegetable crops           |               |                     |           |           |          |          |          |          |          |          |             |           |           |
| <b>Total</b>                                          | <b>2</b>      | <b>9</b>            | <b>36</b> | <b>45</b> | <b>-</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>4</b> | <b>5</b> | <b>10</b>   | <b>41</b> | <b>51</b> |

**Table – 4 Numbers of Extension Activities and Beneficiaries**

| Nature of Extension Activity                           | No. of activities | Farmers |        |       | Extension Officials |        |       | Total |        |       |
|--------------------------------------------------------|-------------------|---------|--------|-------|---------------------|--------|-------|-------|--------|-------|
|                                                        |                   | Male    | Female | Total | Male                | Female | Total | Male  | Female | Total |
| Field Day                                              | 12                | 218     | 66     | 284   | 5                   | -      | 5     | 223   | 66     | 289   |
| Kisan Mela                                             | 9                 | 31680   | 7039   | 38515 | 30                  | 15     | 45    | 31510 | 7054   | 38564 |
| Kisan Gosthi                                           | 20                | 852     | 155    | 1007  | 25                  | -      | 25    | 1028  | 155    | 1183  |
| KisanGosthi-“CHALE GAON KI OAR” for drought mitigation | 8                 | 2182    | 685    | 2867  | 12                  | -      | 12    | 2194  | 685    | 2874  |
| Exhibition                                             |                   |         |        |       |                     |        |       |       |        |       |
| Film Show                                              |                   |         |        |       |                     |        |       |       |        |       |
| Method Demonstrations                                  | --                | -       | -      | -     | -                   | -      | -     | -     | -      | -     |
| Farmers Seminar on seed                                | 01                | 64      | -      | 64    | 16                  | -      | 16    | 80    | -      | 80    |

|                                                  |     |      |    |      |    |   |    |      |    |      |
|--------------------------------------------------|-----|------|----|------|----|---|----|------|----|------|
| production                                       |     |      |    |      |    |   |    |      |    |      |
| Workshop                                         |     |      |    |      |    |   |    |      |    |      |
| Group meetings                                   |     |      |    |      |    |   |    |      |    |      |
| Lectures delivered                               | 15  |      |    |      |    |   |    |      |    |      |
| Newspaper coverage                               | 115 |      |    |      |    |   |    |      |    |      |
| Radio coverage                                   | -   |      |    |      |    |   |    |      |    |      |
| TV coverage                                      | 30  |      |    |      |    |   |    |      |    |      |
| Radio Programmes                                 | 11  |      |    |      |    |   |    |      |    |      |
| TV Programmes                                    | 29  |      |    |      |    |   |    |      |    |      |
| Publications                                     | 35  |      |    |      |    |   |    |      |    |      |
| Popular articles                                 | 07  |      |    |      |    |   |    |      |    |      |
| Extension Literature                             | 14  |      |    |      |    |   |    |      |    |      |
| Advisory Services                                |     |      |    |      |    |   |    |      |    |      |
| Scientific visit to farmers field                | 131 | 700  | -  | 700  | -  | - | -  | 700  | -  | 700  |
| Farmers visit to KVK                             | 177 | 866  | -  | 866  | -  | - | -  | 866  | -  | 866  |
| Diagnostic visits                                | 308 | 1566 |    | 1566 |    |   |    | 1566 |    | 1566 |
| Field visits                                     |     |      |    |      |    |   |    |      |    |      |
| Exposure visits                                  |     |      |    |      |    |   |    |      |    |      |
| Ex-trainees Sammelan                             | 01  | 161  | 56 | 217  | 27 | - | 27 | 188  | 56 | 244  |
| Agriculture Camps                                |     |      |    |      |    |   |    |      |    |      |
| Clinic day                                       |     |      |    |      |    |   |    |      |    |      |
| Soil health Camp                                 |     |      |    |      |    |   |    |      |    |      |
| Animal Health Camp                               |     |      |    |      |    |   |    |      |    |      |
| Agri mobile clinic                               |     |      |    |      |    |   |    |      |    |      |
| Soil test campaigns                              | 234 |      |    |      |    |   |    |      |    |      |
| Farm Science Club Conveners meet                 |     |      |    |      |    |   |    |      |    |      |
| Self Help Group Conveners meetings               | 3   | 54   | -  | 54   | -  | - | -  | 54   | -  | 54   |
| Mahila Mandals Conveners meetings                |     |      |    |      |    |   |    |      |    |      |
| Celebration of important days (specify) Seed Day | 1   | 87   | 7  | 94   | -  | - | -  | 87   | 7  | 94   |
| Any Other (Specify) Krishak helpline             | 288 | 87   | 77 | 94   | -  | - | -  | 87   | 7  | 94   |

**Table – 5 A Productions of Seeds**

| Sl. No.              | Crop       | Variety     | Quantity (qtl.) | Value ( in Rs.) | Provided to No. of Farmers |
|----------------------|------------|-------------|-----------------|-----------------|----------------------------|
| <b>I. CEREALS</b>    |            |             |                 |                 |                            |
| 1                    | Paddy      | Lalat       | 17.00           | 28680.00        |                            |
| 2                    | Paddy      | MTU-7029    | 50.00           | 78912.00        |                            |
| 3                    | Paddy      | BPT 5204    | 19.00           | 28500.00        |                            |
| 4                    | Wheat      | K-9107      | 2.26            | 3390.00         |                            |
| <b>Total</b>         |            |             |                 | 139482.00       |                            |
| <b>II. OIL SEEDS</b> |            |             |                 |                 |                            |
|                      |            |             | 88.26           |                 |                            |
| 1                    | Sesame     | Kanke safed | 012             | 540.00          |                            |
| 2                    | Niger      | Birsa Niger | 0.30            | 1200.00         |                            |
| 3                    | Ground nut | Birsa Bold  | 1.1             | 3850.00         |                            |
| 4                    | Mustard    | Shivani     | 0.15            | 525.00          |                            |
| 5                    |            |             |                 |                 |                            |
| 6                    |            |             |                 |                 |                            |
| <b>Total</b>         |            |             | 1.67            | 6115.00         |                            |
| <b>III. PULSES</b>   |            |             |                 |                 |                            |
| 1                    | Green Gram | PDM -11     | 0.3             | 1350.00         |                            |

|                       |                |               |      |         |  |
|-----------------------|----------------|---------------|------|---------|--|
| 2                     | Pigeon         | Bahar         | 0.95 | 4275.00 |  |
| 3                     | pea            | Birsa Arhar-1 | 0.12 | 480.00  |  |
| 4                     | Chick<br>pea   | KPG-59        | .85  | 2992.00 |  |
| <b>Total</b>          |                |               |      | 9097.00 |  |
| <b>IV. VEGETABLES</b> |                |               |      |         |  |
| 1                     | French<br>bean | Arka komal    | 0.15 | 750.00  |  |
| 2                     | Pea            | Azad P-1      | 0.30 | 1350.00 |  |
| 3                     |                |               |      |         |  |
| 4                     |                |               |      |         |  |
| 5                     |                |               |      |         |  |
| 6                     |                |               |      |         |  |
| <b>Total</b>          |                |               | 0.45 | 2100    |  |
| <b>V. OTHERS</b>      |                |               |      |         |  |
| 1                     |                |               |      |         |  |
| 2                     |                |               |      |         |  |
| 3                     |                |               |      |         |  |
| 4                     |                |               |      |         |  |
| 5                     |                |               |      |         |  |
| <b>Total</b>          |                |               |      |         |  |

**SUMMARY :**

| Sl. No.      | Crop          |               | Quantity (qtl.) | Value (Rs.)   | Provided to No. of Farmers |
|--------------|---------------|---------------|-----------------|---------------|----------------------------|
| 1            | CEREALS       | Paddy + Wheat | 88.26           | 139482        |                            |
| 2            | OILSEEDS      |               | 1.67            | 6115          |                            |
| 3            | PULSES        |               | 2.22            | 9097          |                            |
| 4            | VEGETABLES    |               | 0.45            | 2100          | -                          |
| 5            | FLOWER CROPS  |               |                 |               |                            |
| 6            | OTHERS        | Mushroom      | 0.65            | 3904          | 70                         |
| 7            | Vermi compost |               | 373             | 1665          |                            |
| <b>TOTAL</b> |               |               | <b>93.25</b>    | <b>160698</b> | <b>70</b>                  |

**Table – 5 B Production of planting/seedling materials of Fruits/Vegetables/Forest Species:**

| Sl. No.               | Crop           | Variety    | Quantity (Nos.) | Value (in Rs.) | Provided to No. of Farmers           |
|-----------------------|----------------|------------|-----------------|----------------|--------------------------------------|
| <b>I. FRUITS</b>      |                |            |                 |                |                                      |
| 1                     | Banana         | Grand nine | 854             | 8540           | Sold to NHM, BAU, Ranchi and farmers |
| 2                     |                | Martman    | 900             | 9000           |                                      |
| 3                     |                | Robusta    | 1090            | 10900          |                                      |
| 4                     |                |            |                 |                |                                      |
| 5                     |                |            |                 |                |                                      |
| <b>Total</b>          |                |            | <b>2844</b>     | <b>28440</b>   |                                      |
| <b>II. VEGETABLES</b> |                |            |                 |                |                                      |
| 1                     | French<br>bean | Arka komal | 0.15            | 750            |                                      |
| 2                     | Pea            | Azad P-1   | 0.25            | 1125           |                                      |
| <b>Total</b>          |                |            |                 |                |                                      |
| <b>III. SPICES</b>    |                |            |                 |                |                                      |

|                             |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|
| 1                           |  |  |  |  |  |
| <b>Total</b>                |  |  |  |  |  |
| <b>IV. FOREST SPECIES</b>   |  |  |  |  |  |
| 1                           |  |  |  |  |  |
| <b>Total</b>                |  |  |  |  |  |
| <b>V. ORNAMENTAL CROPS</b>  |  |  |  |  |  |
| 1                           |  |  |  |  |  |
| <b>Total</b>                |  |  |  |  |  |
| <b>VI. PLANTATION CROPS</b> |  |  |  |  |  |
| 1                           |  |  |  |  |  |
| 2                           |  |  |  |  |  |
| <b>Total</b>                |  |  |  |  |  |
| <b>VII. OTHERS</b>          |  |  |  |  |  |
| 1                           |  |  |  |  |  |
| <b>Total</b>                |  |  |  |  |  |

**SUMMARY:**

| Sl. No.      | Crop                     | Quantity (Nos.) | Value (in Rs.) | Provided to No. of Farmers   |
|--------------|--------------------------|-----------------|----------------|------------------------------|
| <b>I</b>     | <b>FRUITS</b>            | <b>2844</b>     | <b>28440</b>   | <b>Sold to NHM + farmers</b> |
| <b>II</b>    | <b>VEGETABLES</b>        | <b>0.45</b>     | <b>2100</b>    |                              |
| <b>III</b>   | <b>SPICES</b>            |                 |                |                              |
| <b>IV</b>    | <b>FOREST SPECIES</b>    |                 |                |                              |
| <b>V</b>     | <b>ORNAMENTAL CROPS</b>  |                 |                |                              |
| <b>VI</b>    | <b>PLANTATION CROPS</b>  |                 |                |                              |
| <b>VII</b>   | <b>VERMI COMPOST</b>     | <b>373</b>      | <b>1665</b>    |                              |
| <b>VIII</b>  | <b>OTHERS (Mushroom)</b> | <b>0.65</b>     | <b>3904</b>    |                              |
| <b>TOTAL</b> |                          |                 |                |                              |

**Table –5 C      Production of bio products: Not done**

| Sl. No.             | Product Name | Species | Quantity |      | Value (Rs.) | Provided to No. of Farmers |
|---------------------|--------------|---------|----------|------|-------------|----------------------------|
|                     |              |         | No       | (kg) |             |                            |
|                     |              |         |          |      |             |                            |
| I. BIOAGENTS        |              |         |          |      |             |                            |
| 1                   |              |         |          |      |             |                            |
| 2                   |              |         |          |      |             |                            |
| 3                   |              |         |          |      |             |                            |
| 4                   |              |         |          |      |             |                            |
| II. BIOFERTILIZERS  |              |         |          |      |             |                            |
| 1                   |              |         |          |      |             |                            |
| 2                   |              |         |          |      |             |                            |
| 3                   |              |         |          |      |             |                            |
| 4                   |              |         |          |      |             |                            |
| III. BIO PESTICIDES |              |         |          |      |             |                            |
| 1                   |              |         |          |      |             |                            |
| 2                   |              |         |          |      |             |                            |

|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |

**SUMMARY:** Not done

| Sl. No. | Product Name    | Species | Quantity |      | Value (Rs.) | Provided to No. of Farmers |
|---------|-----------------|---------|----------|------|-------------|----------------------------|
|         |                 |         | No       | (kg) |             |                            |
| I       | BIOAGENTS       |         |          |      |             |                            |
| II      | BIO FERTILIZERS |         |          |      |             |                            |
| III     | BIO PESTICIDE   |         |          |      |             |                            |
|         | TOTAL           |         |          |      |             |                            |

**Table 5 D** **Livestock materials:** Not done

| Sl. No.             | Type | Breed | Quantity |     | Value (Rs.) | Provided to No. of Farmers |
|---------------------|------|-------|----------|-----|-------------|----------------------------|
|                     |      |       | (Nos)    | Kgs |             |                            |
| I. Cattle           |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
| II. SHEEP AND GOAT  |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
| III. POULTRY        |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
| IV. FISHERIES       |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
| V. Others (Specify) |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |
|                     |      |       |          |     |             |                            |

**SUMMARY:** Not done

| Sl. No. | Type         | Breed | Quantity |     | Value (Rs.) | Provided to No. of Farmers |
|---------|--------------|-------|----------|-----|-------------|----------------------------|
|         |              |       | Nos      | Kgs |             |                            |
| I       | CATTLE       |       |          |     |             |                            |
| II      | SHEEP & GOAT |       |          |     |             |                            |
| III     | POULTRY      |       |          |     |             |                            |
| IV      | FISHERIES    |       |          |     |             |                            |

|          |               |
|----------|---------------|
| <b>V</b> | <b>OTHERS</b> |
|          | <b>TOTAL</b>  |

[illegible]

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |