# ANNUAL PROGRESS REPORT

## (1st January 2022 -31st December 2022)



KRISHI VIGYAN KENDRA
DHANBAD, BALIAPUR FARM
DIST. - DHANBAD-828201
BIRSA AGRICULTURAL UNIVERSITY
RANCHI, JHARKHAND.

# PROFORMA FOR ANNUAL REPORT2021( 1st January-31st December2022)

## 1. GENERAL INFORMATION ABOUT THE KVK

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

| Name and address of KVK | Telephone | | E-Mail |
|---|---|---|---|
| | Office | FAX | |
| Krishi Vigyan Kendra, Dhanbad<br>Baliapur farm, Dhanbad-828201 | Office<br>09431507690 | FAX | kvkdhanbad@rediffmail.com<br>kvkdhanbadbau.2012@gmail.com<br>**Website--www.kvkdhanbad.org.in** |

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

| Name and address of Host Organization | Telephone | | E mail |
|---|---|---|---|
| | Office | FAX | |
| Birsa Agricultural University,<br>Ranchi, Jharkhand. | 0651-2450849 | 0651-2450525 | |

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

| Name | Telephone / Contact | | |
|---|---|---|---|
| | Residence | Mobile | Email |
| **Sh. Lalit Kumar Das** | | 09431507690 | kvkdhanbad@rediffmail.com |

1.4. Year of sanction of KVK: 2005

1.5. Staff Position (**as on 31st December 2022**)

| Sl. No. | Sanctioned post | Name of the Incumbent | Designation | Discipline | Pay Scale with Present Basic | Date of joining | Permanent/Temporary | Category (SC/ST/ OBC/ Others) |
|---|---|---|---|---|---|---|---|---|
| 1. | Senior Scientist& Head | Sh. Lalit Kumar Das | I/C Senior Scientist& Head | Agril. Extn. | 57700-182400 | 15.07.2019 | Permanent | SC |
| 2. | Subject Matter Specialist | Dr. Rajeev Kumar | Scientist | Agril. Engg. | 68900-205500 | 11.12.2007 | Permanent | Gen |
| 3. | Subject Matter Specialist | Dr. Seema Singh | Scientist | Home Science | 57700-182400 | 01.04.2019 | Permanent | Gen |
| 4. | Subject Matter Specialist | Dr. Navin Kumar | Scientist | Plant Protection | 57700-182400 | 11.12.2007 | Permanent | Gen |
| 5. | Subject Matter Specialist | Vacant | - | - | - | ----- | | - |
| 6. | Subject Matter Specialist | Vacant | - | - | - | ----- | | - |
| 7. | Subject Matter Specialist | Vacant | - | - | - | ----- | | - |
| 8. | Programme Assistant | Sri Raman Kr. Srivastava | Programme Assistant | Agriculture | 35400-112400 | 01.07.2009 | Permanent | Gen |
| 9. | Computer Programmer | vacant | --- | | - | - | - | - |
| 10. | Farm Manager | Sri Sanjay Kumar | Farm Manager | Agriculture | 35400-112400 | 01.03.05 | Permanent | Gen |
| 11. | Accountant / Superintendent | - | | - | - | - | | |
| 12. | Stenographer | - | | | - | - | | |
| 13. | Driver | Sri Hem Prasad Manjhi | Contractual | | 9000 | | Contractual | ST |
| 14. | Driver | Sri Girdhari Mahto | Contractual | | 9000 | - | Contractual | OBC |
| 15. | Supporting staff | Sri Shyamal Sarkar | Contractual | - | 7000 | - | Contractual | Gen |
| 16. | Supporting staff | Sri Ram Prasad Murmu | Contractual | - | 7000 | - | Contractual | ST |

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 with details | 2.5 |
| | Total | 10.0 |

*Total area should be matched with breakup*

1.7. Infrastructure Development:

A) Buildings and others

| S. No. | Name of infrastructure | Not yet started | Completed up to plinth level | Completed up to lintel level | Completed up to roof level | Totally completed | Plinth area (sq.m) | Under use or not* | Source of funding |
|---|---|---|---|---|---|---|---|---|---|
| 1. | Administrative Building | | | | | Before 31.03.2007 | | Use | ICAR |
| 2. | Farmers Hostel | | | | | -do- | | Use | ICAR |
| 3. | Staff Quarters (6) | | | | | -do- | | Use | ICAR |
| 4. | Piggery unit | | | | | | | | |
| 5 | Fencing | | | | | | | | |
| 6 | Rain Water harvesting structure | | | | | Incomplete | | Not | ICAR |
| 7 | Threshing floor | | | | | Before 31.03.2007 | | Use | B.A.U |
| 8 | Farm godown | | | | | | | | |
| 9. | Dairy unit | | | | | | | | |
| 10. | Poultry unit | | | | | | | | |
| 11. | Goatry unit | | | | | | | | |
| 12. | Mushroom Lab | | | | | | | | |
| 13. | Mushroom production unit | | | | | Before 31.03.2007 | | Use | B.A.U |
| 14. | Shade house | | | | | | | | |
| 15. | Soil test Lab | | | | | Before 31.03.2007 | | Use | ICAR |
| 16 | Others, Please Specify | | | | | Before 31.03.2007 | | Use | ICAR |
| | | | | | | | | | |

* If not in use then since when and reason for non-use

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total km. Run | Present status |
|---|---|---|---|---|
| Tractor with trolley | 2006 | -- | 1702.2 hours | Working but need repairing |
| Tractor with trolley | Provided by BAU Ranchi | | 01204.7 hours | Working |
| Tata Sumo | 2006 | 500000 | 256584 km. | Working but need replacement |
| Motar Cycle | 2016 | 59961 | 2879 km | Working |
| Motar Cycle | 2016 | 59961 | 8259 km | Working |

C) Equipment & AV aids

| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
|---|---|---|---|---|
| a. Lab equipment | | | | |
| | | | | |
| | | | | |
| b. Farm machinery | | | | |
| | | | | |
| | | | | |
| c. AV Aids | | | | |
| Desktop Computer set | 2006 | -- | Not Working | ICAR |
| Xerox | 2007 | -- | Not working | ICAR |
| Digital Camera | 2007 | 14512.50 | Not Working | ICAR |

D) Farm implements

| Name of equipment | Year of purchase | Cost (Rs.) | Present status | Source of fund |
|---|---|---|---|---|
| Diesel Pump set Big – 5 H.P | 2006 | - | Working | |
| Spraying Machine (Gatour) | 2006 | - | Working | |
| Disc plough | 2009 | - | Working | |
| Multi purpose seed drill | 2009 | - | Not working | |
| Grass cutter | 2009 | - | Not working | |
| M. B. Plough | 2009 | - | Working | |
| Seed cum fertilizer drill | 2009 | - | Not working | |
| Rotary Tiller | 2009 | - | Working | |
| Power sprayer | 2009 | - | Not working | |
| Cage wheel nut bolt type | 2009 | - | Working | |

## 1.8. Details SAC meeting* conducted in the year

| Sl.No. | Date | Number of Participants | Salient Recommendations | Action taken | If not conducted, state reason |
|---|---|---|---|---|---|
| 1. | 04.07.2022 | 35 | Improve the co-ordination with NGO's & line departments for improvement of income generation of farmers of Dhanbad district | In collaboration with NABARD, Dhanbad & FPO (Nirsa block & Tundi block) established and 4 FPO has to be establish in this year. | |
| | | | At least establish one acre of land for organic farming and one acre of land for natural farming in KVK farm | KVK, Dhanbad established one acre land for Pigeon pea crop in organic farming and one acre land for Mustard crop in Natural Farming | |
| | | | Establish one acre of land for millets farming in KVK farm | Ragi vriety A-404 is cultivated in one acre land of KVK, Dhanbad | |
| | | | Mushroom production should be promoted for self-employment of farm women | In training and demonstration Mushroom spawn | |

| | | | | | |
|---|---|---|---|---|---|
| | | | | production promoted to the farmers and farm women for self-employment and at least 200 farmers and farm women are involved in Mushroom cultivation | |
| | | | Farm women should be trained for value addition of crop, so that they may get appropriate cost of crop | At least 150 farm women trained for value addition of crop | |
| | | | Drip irrigation technology should be promoted in the district for cultivation of Horticultural crops | With the help of line department farmer of Dhanbad district uses Drip irrigation technology in about 500 ha for the cultivation of vegetables, flowers and other horticultural crops. Training on Drip irrigation technology is also organize time to time during 2022 80 farmers were benefited with the training programme. | |
| | | | Training and demonstration should organize to promote new variety of oilseeds and pulses | For the promotion of oilseed and pulse crop 10 training programme were conducted beside this demonstration programme of new variety of oilseed and pulses were conducted in 170 ha area in which 472 farmers were benefited. | |
| | | | Animal Husbandry department / Fishery department should linked with KVK to make more benefit for farmers and farm women | In collaboration with District fisheries Department vegetable seeds were distributed in 27 ha of land in Topchanchi Block of Dhanbad and they were also benefited with the technological solutions. | |
| | | | Grafting, Budding & Air layering should promoted through training & demonstration | 110 Farmers and youths were trained in Grafting, Budding & Layering and 24 RAWE students of BAU Ranchi were also trained. | |
| | | | Plantation should be promoted in Barren land in collaboration with DHO, Dhanbad | Plantation programme are started in barren land with the collaboration with DHO, Dhanbad. | |

** Salient recommendation of SAC in bullet form*

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

2.a. District level data on agriculture, livestock and farming situation (2022)

| Sl. no. | Item | Information | | |
|---|---|---|---|---|
| 1 | Major Farming system/enterprise | Agriculture + Livestock,<br>Agriculture + Livestock + Poultry<br>Agriculture + Horticulture<br>Agriculture + Horticulture + Sericulture<br>Agriculture + Fisheries + Duckery + Poultry | | |
| 2 | Agro-climatic Zone | Zone – 7<br>Sub zone – IV | | |
| 3 | Agro ecological situation | Sandy loam, rainfed, undulating | Soils are light textured having undulating topography & crops are grown under rainfed situation. No irrigation facility is available. | |
| | | Sandy loam, undulating, irrigated. | Soils are light textured having undulating topography with irrigation facility. The sources of irrigation are mainly wells and tanks. | |
| | | 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. | |
| | | 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. | |
| 4 | Soil type | Stony & gravelly | Found near the foot hills. Thickness of soil is very less. Used only for recreation purpose and picnic spots. | |
| | | Sandy soil | Locally known as balu found near the river soils. They are course textured having less water holding capacity & deficient in plant nutrients. | |
| | | 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. | |
| | | 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. | |
| 5 | Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others | Crop | Area (ha) | Productivity (Qtl /ha) |
| | | Rice | 42155 | 27.5 |
| | | Maize | 2619 | 24.0 |
| | | Wheat | 2817 | 25.0 |
| | | Pigeon Pea | 1787 | 12.0 |
| | | Mustard | 7824 | 9.1 |
| | | Chick pea | 4718 | 15.0 |
| | | Potato | 1248 | 263.0 |
| | | Onion | 903 | 190.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 6 | Mean yearly temperature, rainfall, humidity of the district | Month | Rainfall (mm) | Temperature $^{0}$ C | | Relative Humidity(%) | |
| | | | | Maximum | Minimum | 7.00AM | 2.00PM |
| | | January 2022 | 7.7 | 24.7 | 9.3 | 81.4 | 47.2 |
| | | February 2022 | 64.0 | 32.9 | 14.9 | 78.2 | 46.3 |
| | | March 2022 | 0.0 | 39.4 | 22.6 | 61.5 | 41.7 |
| | | April, 2022 | 0.0 | 38.7 | 19.8 | 40.8 | 33.2 |
| | | May, 2022 | 51.1 | 39.8 | 20.9 | 54.3 | 35.2 |
| | | June, 2022 | 136.2 | 37.9 | 20.6 | 52.5 | 34.9 |
| | | July, 2022 | 125.7 | 33.8 | 21.2 | 63.4 | 41.7 |
| | | August, 2022 | 284.6 | 32.7 | 20.4 | 59.8 | 37.6 |
| | | September, 2022 | 183.8 | 33.4 | 20.7 | 68.2 | 41.6 |
| | | October, 2022 | 77.7 | 35.2 | 21.8 | 73.4 | 46.9 |
| | | November, 2022 | 0.0 | 33.4 | 18.9 | 69.8 | 42.7 |
| | | December 2022 | 0.0 | 35.6 | 11.6 | 76.5 | 41.8 |

| | | | |
|---|---|---|---|
| 7 | Production of major livestock products like milk, egg, meat etc. | **Category** | **Population** |
| | | **Cattle** | |
| | | *Crossbred* | 24176 |
| | | *Indigenous* | 458804 |
| | | **Buffalo** | 78806 |
| | | **Sheep** | |
| | | Crossbred | 200 |
| | | *Indigenous* | 43166 |
| | | **Goats** | 214396 |
| | | **Pigs** | 214326 |
| | | *Crossbred* | 2054 |
| | | *Indigenous* | 686137 |
| | | **Rabbits** | 463 |
| | | **Poultry** | |
| | | Hens | |
| | | *Desi* | 177167 |
| | | *Improved* | 59932 |
| | | Ducks | 14141 |
| | | Turkey and others | 411 |
| | | | |

Note: Please give recent data only

2.b. Details of operational area / villages (2022)

| Sl. No. | Name of Taluk | Name of the block | Name of the villages | Major crops & enterprises | Major problems identified (crop-wise) | Identified Thrust Areas |
|---|---|---|---|---|---|---|
| Sl.No. | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
| 1 | Dhanbad | Baliapur | Shitalpur | **Kharif-** Rice, Ragi, Sesame, Black gram, Red gram, vegetable<br>**Rabi-** Wheat, Mustard, Linseed, Gram, Lentil, Potato, Brinjal<br>**Summer-**<br>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 mono crop rice.<br>3. Popularization of IPM measures for field and Horticultural crops.<br>4. Introduction of post harvest & value addition technology. |
| 2. | Dhanbad | Baliapur | Salpatra | **Kharif-** Rice, Maize, Sesame, Black gram, Red gram, Vegetables.<br>**Rabi-** Wheat, Mustard, Linseed, Gram, Lentil, Pea, Potato, Brinjal, Cauliflower, Cabbage.<br>**Summer-**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 mono crop rice.<br>3. Popularization of IPM measures for field and Horticultural crops.<br>4. Introduction of post harvest & value addition technology. |

2. c. Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2022) for its development and action plan

| Name of village | Block | Action taken for development |
|---|---|---|
| Salpatra | Baliapur | Base line survey, Training, FLD and OFT |
| Shitalpur | Baliapur | Base line survey, Training and FLD |
| Baliapur Purvi | Baliapur | Base line survey , Training and FLD |
| Lakhipur | Kaliasol | Base line survey , Training and FLD |

2.1 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 mono crop rice. |
| 5. | Diversification of traditional rice-based cropping system with appropriate commercialization |
| 6. | Breed Improvement of cattle and pig |
| 7. | Popularization of IPM measures for field and Horticultural crops. |
| 8. | Introduction of postharvest & value addition technology. |
| 9. | Entrepreneurship development of SHG groups. |

## 3. TECHNICAL ACHIEVEMENTS

3.A.Summary details of target and achievement of mandatory activities by KVK during the year2022

| OFT | | | | | | | | | | | | FLD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. of technologies tested: | | | | | | | | | | | | No. of technologies demonstrated: | | | | | | | | | | | |
| Number of OFTs | | Number of farmers | | | | | | | | | | Number of FLDs | | Number of farmers | | | | | | | | | |
| Target | Achievement | Target | Achievement | | | | | | | | | Target | Achievement | Target | Achievement | | | | | | | | |
| | | | SC | | ST | | Others | | Total | | | | | | SC | | ST | | Others | | Total | | |
| | | | M | F | M | F | M | F | M | F | T | | | | M | F | M | F | M | F | M | F | T |
| - | **4** | - | 4 | - | 4 | 2 | 20 | 10 | 28 | 12 | 40 | 10 | 10 | 425 | 37 | 18 | 42 | 36 | 278 | 61 | 357 | 115 | 472 |

| Training | | | | | | | | | | | Extension activities | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | |
| Number of Courses | | Number of Participants | | | | | | | | | Number of activities | | Number of participants | | | | | | | | |
| Target | Achievement | Target | Achievement | | | | | | | | Target | Achievement | Target | Achievement | | | | | | | |
| | | | SC | | ST | | Others | | Total | | | | | SC | | ST | | Others | | Total | |
| | | | M | F | M | F | M | F | M | F | T | | | | M | F | M | F | M | F | M | F | T |
| 102 | 98 | 3000 | 303 | 349 | 263 | 264 | 926 | 750 | 1492 | 1363 | 2855 | 2000 | 2092 | 10000 | 358 | 166 | 412 | 298 | 8966 | 2417 | 9736 | 2881 | 11717 |

| Impact of capacity building | | | | | | | | | | | Impact of Extension activities | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | |
| Number of Participants trained | | Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | | Number of Participants attended | | Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower) | | | | | | | | |
| Target | Achievement | SC | | ST | | Others | | Total | | | Target | Achievement | SC | | ST | | Others | | Total | | |
| | | M | F | M | F | M | F | M | F | T | | | M | F | M | F | M | F | M | F | T |
| | | | | | | | | | | | | | | | | | | | | | |

| Seed production (q) | | Planting material (in Lakh) | |
|---|---|---|---|
| Target | Achievement | Target | Achievement |
| 60 | 59.85 | 10000 | 12000 |

| Livestock strains and fish fingerlings produced (in lakh)* | | Soil, water, plant, manures samples tested (in lakh) | |
|---|---|---|---|
| Target | Achievement | Target | Achievement |
| | | | |

* Give no. only in case of fish fingerlings

| Publication by KVKs | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Number | No. circulated | No. of Research papers in NAAS rated Journals | Highest NAAS rating of any publication | Average NAAS rating of the publications | Details of awarded publication, if any | Details of Award given to the publication |
| Research paper | - | - | - | - | - | - | - |
| Seminar/conference/ symposia papers | 1 | 100 | - | - | - | - | - |
| Books | - | - | - | - | - | - | - |
| Bulletins | | | | | | | |
| News letter | | | | | | | |
| Popular Articles | 2 | 500 | | | | | |
| Book Chapter | | | | | | | |
| Extension Pamphlets/ literature | 11 | 1800 | | | | | |
| Technical reports | 6 | 120 | | | | | |
| Electronic Publication (CD/DVD etc) | - | - | | | | | |
| TOTAL | 20 | 2520 | | | | | |

3.1.1Achievements on technologies assessed and refined

**OFT-1**

| | | |
|---|---|---|
| 1 | Title of On farm Trial | **ASSESSMENT OF DIFFERENT METHODS OF IRRIGATION ON PRODUCTIVITY OF TOMATO IN MEDIUM LAND** |
| 2 | Problem diagnose | Low production of tomato due to irrigation water crisis |
| 3 | Details of technologies selected for assessment/ refinement | Farmers Practice (FP) : Furrow/Bed irrigation<br>Technology option-$_{I}$ : Drip Irrigation with crop residue mulch.<br>Technology option-$_{II}$ : Drip irrigation with plastic mulch |
| 4 | Source of Technology | Department of Agril. Engg., BAU, Ranchi |
| 5 | Production system and thematic area | Pulse – Vegetable - Vegetable , Natural Resource Management |
| 6 | Performance of the Technology with performance indicators | Crop standing |
| 7 | Final recommendation for micro level situation | |
| 8 | Constraints identified and feedback for research | |
| 9 | Process of farmers participation and their reaction | |

*Thematic area:* Water Management in Vegetable

Problem definition: Water scarcity for vegetable production

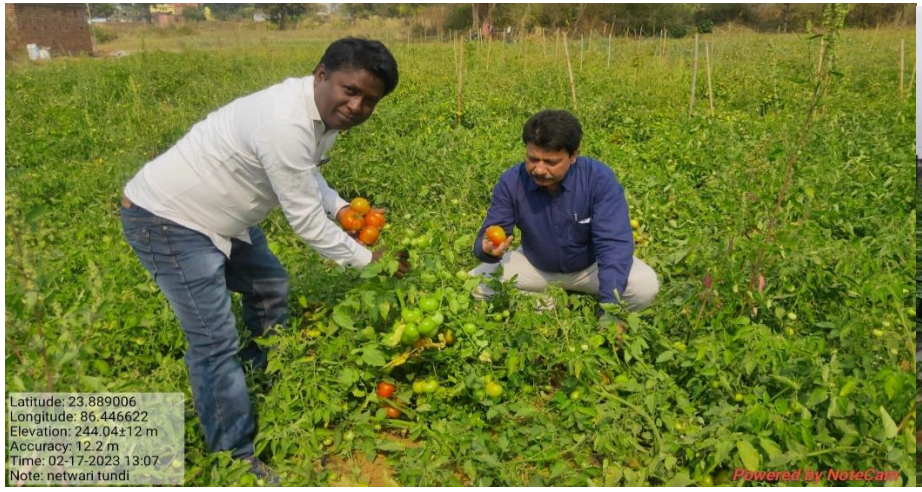
Technology assessed: Suitability of proper water saving application for production of vegetable

Table:

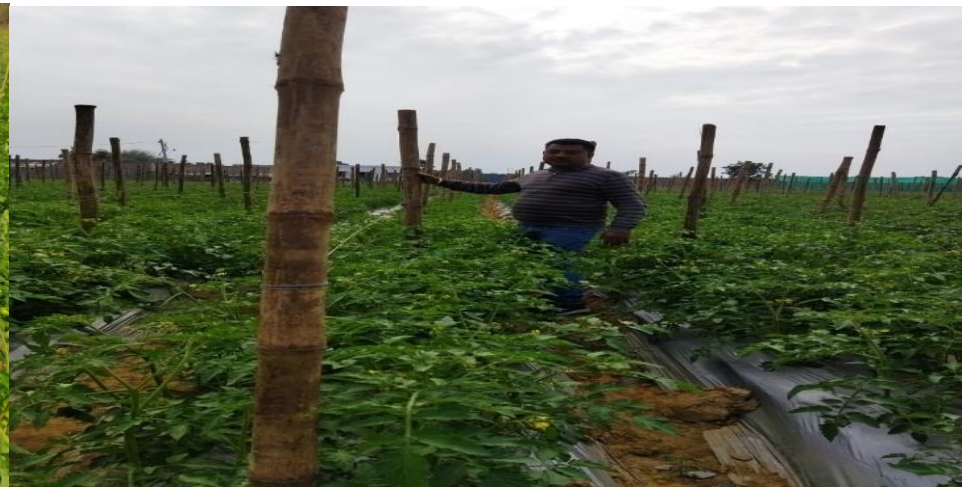
| Technology option | No. of trials | No. of Branch / Plant | No. of Branch/ Plant | Field water use efficiency ($Kg/m^3$) | Yield (q/ha) | Cost of Cultivation (Rs./ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B C Ratio |
|---|---|---|---|---|---|---|---|---|---|
| Farmers Practice (FP) – Furrow/Bed Irrigation | 10 | Crop Standing | | | | | | | |
| Technology option-I - Drip Irrigation with Crop residue mulch | | | | | | | | | |
| Technology option-II- Drip irrigation with plastic mulch | | | | | | | | | |

Results:


**Farmers Practice (FP) : Furrow irrigation without mulch**




**Technology option-I_ - Drip Irrigation with crop residue mulch**



**Technology option-II: Drip Irrigation with Plastic mulch**

**OFT-2**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | **Assessment of Effectiveness Extension Methods for dissemination of commercial Vegetable Production Technologies.** |
| 2. | Problem diagnosed | Low production of vegetable |
| 3. | Details of technologies selected for assessment/refinement (Mention either Assessed or Refined) | **Farmers Practice**: Without Extension Education Methods<br>**TO1:** Individual contact method (farm and home visit)<br>**TO2**: Group contact Method (Demonstration, Lecture, Participatory Discussion/Training)<br>**TO3**: Mass Contact (Leaflet, Mobile Advisory, A/V film) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | BAU Ranchi |
| 5. | Production system and thematic area | Rice-fellow- fellow and Extension Method |
| 6. | Performance of the Technology with performance indicators | Running |
| 7. | Final recommendation for micro level situation | |
| 8. | Constraints identified and feedback for research | |
| 9. | Process of farmers participation and their reaction | |

*Thematic area:*

Problem definition:

Technology assessed:

Table:

| Technology option | No. of trials | Yield component | | | Yield (q/ha) | Cost of cultivation (Rs./ha) | Gross return (Rs/ha) | Net return (Rs./ha) | BC ratio |
|---|---|---|---|---|---|---|---|---|---|
| | | No. of effective tillers/hill | No. of spikelet per panicle | Test wt. (100 grain wt.) | | | | | |
| Farmers Practice | | | | | | | | | |
| TOi | | | | | | | | | |
| TOii | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Results:

*Please provide all the OFTs in same format*

**OFT-3**

| | | |
|---|---|---|
| 1. | Title of On farm Trial | Assessment of different value addition technologies of Jackfruit for Income Generation |
| 2. | Problem diagnosed | (a) Low market price of Jackfruit during peak season.<br>(b) Lack of knowledge of Nutritional Value of Jackfruits |

| | | |
|---|---|---|
| 3. | Details of technologies selected for assessment/refinement (Mention either Assessed or Refined) | Farmers /Farmwomen Practice – Fresh used as vegetables /fruits /making pickles<br><br>T1 - Preparation of pickles. Preparation of Pickles By curing of raw pieces of Jackfruit (peeled) with Turmeric Powder+ salt + Acetic Acid for 10-15 days followed by addition of Spices + Oil.<br><br>T2 – Preparation of Jackfruit Chips. Preparation of Chips By Blanching of cut pieces +Sun drying followed by addition of Salt + one pinch Turmeric + Spices+ KMS(0.5%) |
| 4. | Source of Technology (ICAR/ AICRP/SAU/other, please specify) | Home Science Department, BAU, Ranchi & Technical Bulletin No. 41, ICAR, Goa, ATARI,Patna |
| 5. | Production system and thematic area | Value addition & Income generation |
| 6. | Performance of the Technology with performance indicators | (a) Life & Product Recovery<br>(b) Organoleptic Test<br>(c) Cost/Benefit Ratio |
| 7. | Final recommendation for micro level situation | it is recommended that preparation techniques of jackfruit pickle its labeling and packaging among the SHGs should promoted to get FSSAI number<br><br>It is also recommended that the techniques of value addition can be initiated as entrepreneurship development among the rural youth and SHGs from Local to Global & underutilized fruits as Super Food for nutrition security. |
| 8. | Constraints identified and feedback for research | Lack of Proper Market facility and unaware of rich source of nutrients present in Jackfruits. |
| 9. | Process of farmers participation and their reaction | Farmwomen are happy to adopt this easy techniques for income generation by locally and seasonally available jackfruits in making Jackfruit pickle with labeling and packaging & also in farm family as well for household consumption. |

## *Thematic area: Value Addition*

Problem definition:

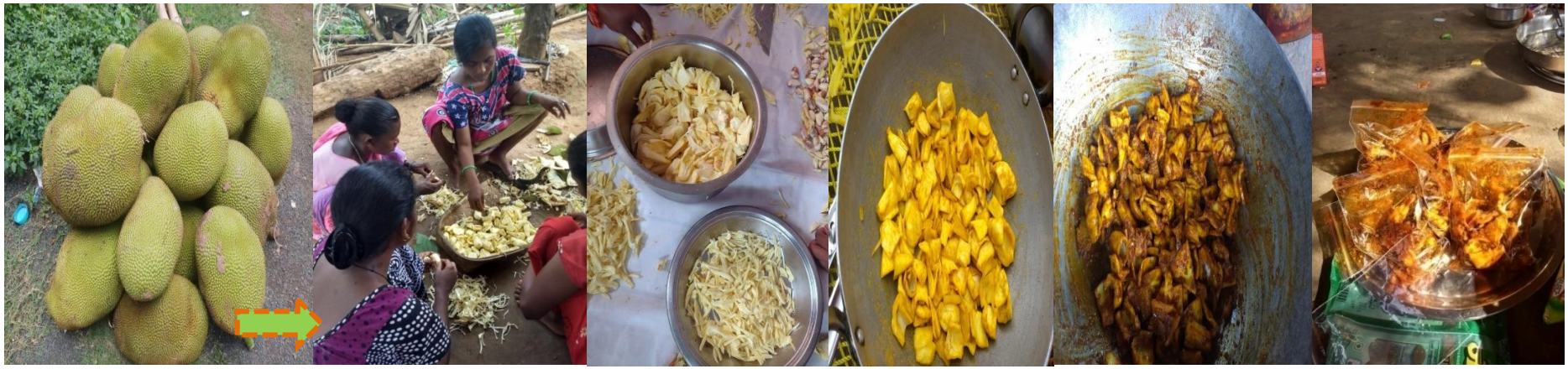
Table:

Nutrition value Of Jackfruit(per 100gms)

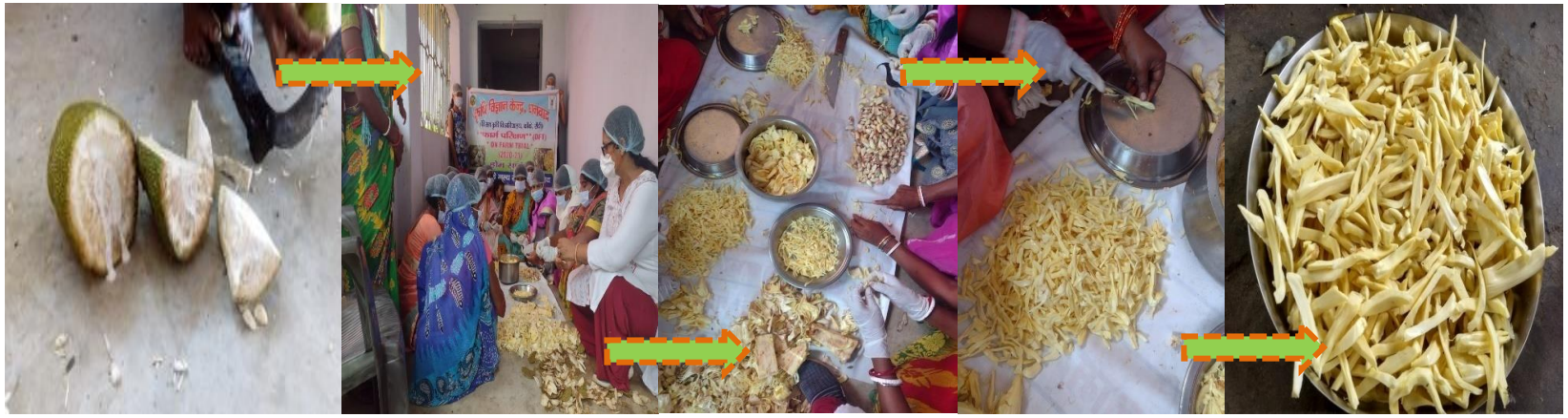
| **Nutrients** | Protein(gm) | Minerals(gm) | Carbohydrates(gm) | Energy(Kcal) | Calcium(mg) | Phosphorus(mg) | Iron(mg) |
|---|---|---|---|---|---|---|---|
| **Jackfruit** | 1.9 | 0.9 | 19.8 | 88 | 20 | 41 | 0.56 |

**Technology assessed:**

| Technology option | No. of trials | Shelf Life OrganolepticTest at 5 point Scale<br>Taste Flavour Colour Texture General Acceptability | | | incidence of microbial Spoilage (%) | Production/unit(qn) | Cost of cultivation (Rs./qn) | Gross return (Rs/qn) | Net return (Rs./qn) | BC ratio |
|---|---|---|---|---|---|---|---|---|---|---|
| | | After 2 months | After 4 months | After 6 months | | | | | | |
| Farmers /Farmwomen Practice – Fresh used as vegetables /fruits /making pickles | 8 | Fair | Fair | Fair | 40-45% | 0.5 | 5000.00 | 6000.00 | 1000.00 | 1.2:1 |
| T1 - Preparation of pickles. Preparation of Pickles By curing of raw pieces of Jackfruit (peeled) with Turmeric Powder+ salt + Acetic Acid for 10-15 days followed by addition of Spices + Oil. | 8 | Fair | Fair | Fair | 20-25% | 0.5 | 4500.00 | 10000.00 | 5550.00 | 2.2:1 |
| T2 – Preparation of Jackfruit Chips. Preparation of Chips By Blanching of cut pieces +Sun drying followed by addition of Salt + one pinch Turmeric + KMS(0.5%) | 8 | Good | Good | Fair | 20% | 0.5 | 2500.00 | 4500.0 | 2000.0 | 1.8:1 |
| **Result**: For income generation among Rural youth & SHGs Jackfruit pickle making with labeling and packaging (T2)was found more remunerative and nutritive Packaging through SHGs were more acceptable & profitable. Jackfruits Chips need more popularization. | | | | | | | | | | |



**Technological Option 1**



**Technological Option 2**

**OFT-4**

| | | |
|---|---|---|
| 1. | **Title of On farm Trial** | **Assessment of different Value addition technologies of Potatoes for entrepreneurship development through SHGs** |
| 2. | **Problem diagnosed** | Low Market value during Peak Season |
| 3. | **Details of technologies selected for assessment/refinement** | T1 – Farmers Practice Preparation of Chips of potato; Peeling + Slicing+ Blanching+ Drying + Packaging<br><br>T2 - ) Preparation of Chips of improved variety potato; Peeling + Slicing+ Blanching(in 0.5% KMS Solution)+ Drying + Packaging<br><br>T2 – (iii) Preparation of Chips of improved variety of potato; Peeling + Slicing+ Blanching(dip in 0.5% KMS Solution for 1 hr.)+ Surface Drying+ Frying + Packaging |
| 4. | **Source of Technology** | Central Potato Research Institute, ICAR, Patna |
| 5. | **Production system and thematic area** | Small Scale Industry |
| 6. | **Performance of the Technology with performance indicators** | (i) Shelf Life<br><br>(ii) Organoleptic test<br><br>(iii) Cost Benefit Ratio |
| 7. | **Final recommendation for micro level situation** | It can be recommended among the SHGs & Rural youth for income generation |
| 8. | **Constraints identified and feedback for research** | Lack of Group Dynamics to form the Farmers Producer Organization to become entrepreneurs |
| 9. | **Process of farmers participation and their reaction** | Rural youth are attracted towards this enterprise. |

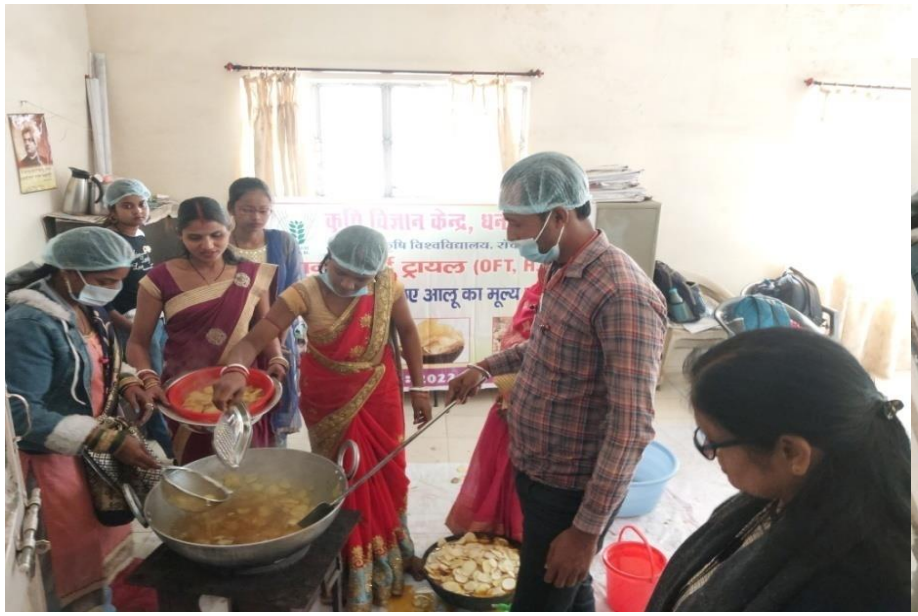
*Thematic area:* Small Scale Industry

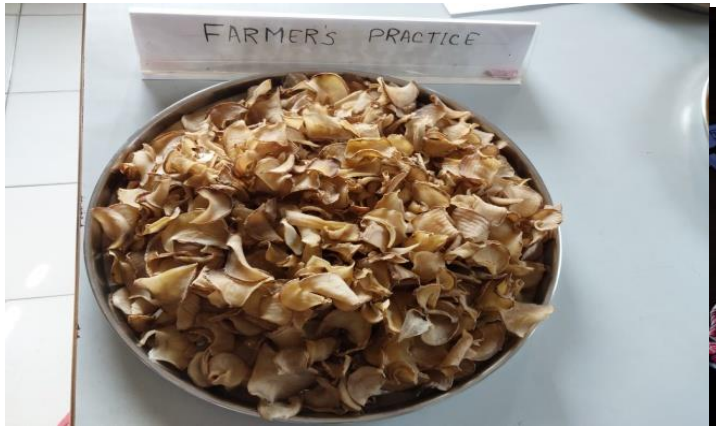
Problem definition: Low Market Value During peak season

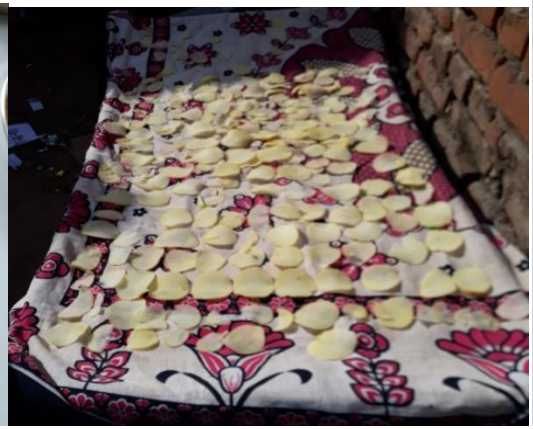
| Technology option | No. of trials | Shelf Life | | | incidence of change in Appearance (%) | Production/unit | Cost of cultivation (Rs./Kg) | Gross return (Rs/kg) | Net return (Rs./kg) | BC ratio |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Organoleptic Test (Color, Texture, Flavor , acceptability) After 3 months | Organoleptic Test (Color, Texture, Flavor , acceptability)After 6 months | Organoleptic Test(Color, Texture, Flavor , acceptability) After 9 months | | | | | | |
| Farmers PracticePeeling + Slicing+ Blanching+ SunDrying + Packaging | 8 | Fair | Fair | Fair | 70-80% | 10Kg | 10.00 | 15.00 | 5.00 | 1.5:1 |
| Preparation of Chips of improved variety potato; Peeling + Slicing+ Blanching(in 0.5% KMS Solution)+ Drying + Packaging | 8 | Good | Good | Fair | 30% | 10Kg | 15.00 | 25.00 | 10.00 | 1.6:1 |
| iii) Preparation of Chips of improved variety of potato; Peeling + Slicing+ Blanching(dip | 8 | Excellent | Good | Fair | 25% | 10Kg | 25.00 | 45.00 | 20.00 | 1.8:1 |

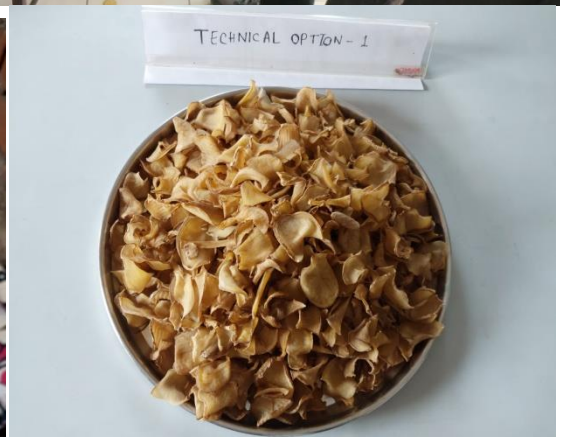
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| in 0.5% KMS Solution for 1 hr.)+ Surface Drying+ Frying + Packaging | | | | | | | | | | |

Result: Preparation of Chips of improved variety of potato; Peeling + Slicing+ Blanching(dip in 0.5% KMS Solution for 1 hr.)+ Surface Drying+ Frying + Packaging through SHGs were more accepted & profitable.




FARMER'S PRACTICE




TECHNICAL OPTION - 1


**OFT: POTATO Based Value Addition**

3.1.2 Technology Assessed by KVK (Discipline wise)

| Sl. No. | Discipline | Thematic areas | No. of the technologies (Technology Interventions) | No. of trials | No. of Locations |
|---|---|---|---|---|---|
| 1. | Crop Production | | | | |
| | | | | | |
| 2. | Livestock | | | | |
| | | | | | |
| 3. | Enterprises | | | | |
| | | | | | |
| 4. | Women Empowerment | | | | |
| | | | | | |

## 3.2 Achievements of Frontline Demonstrations

### A. Details of FLDs conducted during the year

Cereals

| Sl. No. | Crop | Thematic area | Technology Demonstrated with detailed treatments | Area (ha) | | No. of farmers/ demonstration | | | | | | | | | Reasons for shortfall in achievement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Proposed | Actual | SC | | ST | | Others | | Total | | | |
| 1. | | | | | | M | F | M | F | M | F | M | F | T | |
| 2. | Wheat | Crop Production | Variety with line sowing | 5 | 5 | 27 | - | - | - | - | - | 27 | - | 27 | |
| 3. | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | |

Details of farming situation

| Sl. No. | Crop | Season | Farming situation (RF/Irrigated) | Soil type | Status of soil (Kg/ha) | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | N | $P_2O_5$ | $K_2O$ | | | | | |
| 01 | Wheat | Rabi | Irrigated | - | - | - | - | Paddy | 26.11.2022 | Crop is standing | - | - |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

B. Performance of FLD

**Oilseeds:**

Frontline demonstrations on oilseed crops

| Crop | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area (ha) | Yield (q/ha) | | % Increase | *Economics of demonstration (Rs./ha) | | | | *Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | Check | | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

**Pulses**

Frontline demonstration on pulse crops

| Crop | Thematic Area | Name of the technology demonstrated | No. of Farmers | Area (ha) | Yield (q/ha) | | % Increase | *Economics of demonstration (Rs./ha) | | | | *Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | Check | | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | Total | | | | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

**Other crops**

| Crop | Thematic area | Name of the technology demonstrated | No. of Farmer | Area (ha) | Yield (q/ha) | | % change in yield | Other parameters | | *Economics of demonstration (Rs./ha) | | | | *Economics of check (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demo | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |
| | | Total | | | | | | | | | | | | | | | |

**Livestock**

| Category | Thematic area | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | *Economics of demonstration (Rs.) | | | | *Economics of check (Rs.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demonstration | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| Dairy | | | | | | | | | | | | | | | | | |
| Cow | | | | | | | | | | | | | | | | | |
| Buffalo | | | | | | | | | | | | | | | | | |
| Poultry | | | | | | | | | | | | | | | | | |
| Rabbitry | | | | | | | | | | | | | | | | | |
| Pigerry | | | | | | | | | | | | | | | | | |
| Sheep and goat | | | | | | | | | | | | | | | | | |
| Duckery | | | | | | | | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | |

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

** BCR= GROSS RETURN/GROSS COST

**Fisheries**

| Category | Thematic area | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | *Economics of demonstration (Rs.) | | | | *Economics of check (Rs.) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | Demonstration | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| Common carps | | | | | | | | | | | | | | | | | |
| Mussels | | | | | | | | | | | | | | | | | |
| Ornamental fishes | | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

**Other enterprises**

| Category | Name of the technology demonstrated | No. of Farmer | No.of units | Major parameters | | % change in major parameter | Other parameter | | *Economics of demonstration (Rs.) or Rs./unit | | | | *Economics of check (Rs.) or Rs./unit | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demonstration | Check | | Demonstration | Check | Gross Cost | Gross Return | Net Return | ** BCR | Gross Cost | Gross Return | Net Return | ** BCR |
| Oyster mushroom | Enterprise development | | | | | | | | | | | | | | | |
| Button mushroom | | | | | | | | | | | | | | | | |
| Vermicompost | | | | | | | | | | | | | | | | |
| Sericulture | | | | | | | | | | | | | | | | |
| Apiculture | | | | | | | | | | | | | | | | |
| Others (pl.specify) | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

**Women empowerment**

| Category | Name of technology | No. of demonstrations | Observations | | Remarks |
|---|---|---|---|---|---|
| | | | Demonstration | Check | |
| Farm Women | | | | | |
| Pregnant women | | | | | |
| Adolescent Girl | | | | | |
| Other women | | | | | |
| Children | | | | | |
| Neonatal | | | | | |
| Infants | | | | | |

**Farm implements and machinery**

| Name of the implement | Crop | Name of the technology demonstrated | No. of Farmer | Area (ha) | Filed observation (output/man hour) | | % change in major parameter | Labor reduction (man days) | | | | Cost reduction (Rs./ha or Rs./Unit) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Demonstration | Check | | | | | | | | | |
| | | | | | | | | | | | | | | | |

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

**Demonstration details on crop hybrids**

| Crop | Name of the Hybrid | No. of Farmers | Area (ha) | Yield (kg/ha) / major parameter | | | Economics (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demo | Local check | % change | GrossCost | GrossReturn | NetReturn | BCR |
| **Cereals** | | | | | | | | | | |
| Bajra | | | | | | | | | | |
| Maize | | | | | | | | | | |
| Paddy | | | | | | | | | | |
| Sorghum | | | | | | | | | | |
| Wheat | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| **Total Cereals** | | | | | | | | | | |
| **Oilseeds** | | | | | | | | | | |
| Castor | | | | | | | | | | |

| Crop | Name of the Hybrid | No. of Farmers | Area (ha) | Yield (kg/ha) / major parameter | | | Economics (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demo | Local check | % change | GrossCost | GrossReturn | NetReturn | BCR |
| Mustard | | | | | | | | | | |
| Safflower | | | | | | | | | | |
| Sesame | | | | | | | | | | |
| Sunflower | | | | | | | | | | |
| Groundnut | | | | | | | | | | |
| Soybean | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| **Total Oilseeds** | | | | | | | | | | |
| **Pulses** | | | | | | | | | | |
| Greengram | | | | | | | | | | |
| Blackgram | | | | | | | | | | |
| Bengalgram | | | | | | | | | | |
| Redgram | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| **Total Pulses** | | | | | | | | | | |
| **Vegetable crops** | | | | | | | | | | |
| Bottle gourd | | | | | | | | | | |
| Capsicum | | | | | | | | | | |
| Cucumber | | | | | | | | | | |
| Tomato | Laxmi F1 | 40 | 2ha | | | | | | | |
| Brinjal | No 801 F1 | 40 | 2ha | | | | | | | |
| Okra | | | | | | | | | | |
| Onion | | | | | | | | | | |
| Potato | | | | | | | | | | |
| Field bean | | | | | | | | | | |
| Others (Pl.specify) Cauliflower & Cabbage | Madhuri &Green Soccer F1 | 40 | 2ha | | | | | | | |
| **Total Veg. Crops** | 4 | 120 | 6ha | | | | | | | |
| **Commercial Crops** | | | | | | | | | | |
| Cotton | | | | | | | | | | |
| Coconut | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| **Total Commercial Crops** | | | | | | | | | | |
| **Fodder crops** | | | | | | | | | | |
| Napier (Fodder) | | | | | | | | | | |

| Crop | Name of the Hybrid | No. of Farmers | Area (ha) | Yield (kg/ha) / major parameter | | | Economics (Rs./ha) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Demo | Local check | % change | GrossCost | GrossReturn | NetReturn | BCR |
| Maize (Fodder) | | | | | | | | | | |
| Sorghum (Fodder) | | | | | | | | | | |
| Others (Pl.specify) | | | | | | | | | | |
| **Total Fodder Crops** | | | | | | | | | | |

Technical Feedback on the demonstrated technologies

| Sl. No | Crop | Feed Back |
|---|---|---|
| | | |
| | | |
| | | |

Extension and Training activities under FLD

| Sl. No. | Activity | Date | No. of activities organized | Number of participants | Remarks |
|---|---|---|---|---|---|
| 1. | Field days | | | | |
| 2. | Farmers Training | 10.11.2022 | 1 | 30 | |
| 3. | Media coverage | | | | |
| 4. | Training for extension functionaries | | | | |

**Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif and Rabi:**

## CLUSTER FRONTLINE DEMONSTRATION OF OILSEED CROP (2022-23) PERFORMANCE DATA REPORTING

**1. Name of KVK:- Krishi Vigyan Kendra, Dhanbad**
**2. Year of establishment:- 2005**
**3. Host Institution:- Birsa Agricultural University Ranchi**
**4. Address:- KVK, Baliapur, Dhanbad**
**5. District:- Dhanbad**
**6. State:- Jharkhand**
**7. Performance of the demonstration: Good**

**Season: Kharif & Rabi 2022-23**
**A. Technical Parameters:**

| Sl. No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to | | | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | District yield (D) | State yield (S) | Potential yield (P) | | | | Max. | Min. | Av. | D | S | P |
| 01 | Sesame | Local | **3.7** | **70** | **80** | **330** | N-32 + Line sowing +Seed Treatment + IPM | **52** | **20** | **5.87** | **4.62** | **5.1** | **31.81** | **31.11** | **20.0** |
| 02 | Mustard | Local | - | - | - | - | **PUSA Mustard-26 + Line Sowing + Use of Sulpher @ 20 kg/ha + IPM** | **108** | **40** | Crop Standing | | | | | |
| 03 | Linseed | Local | - | - | - | - | **JLS-95** + Line Sowing + IPM | **54** | **20** | Crop Standing | | | | | |

**B. Economic parameters**

| Sl. No. | Variety demonstrated & Technology demonstrated | Farmer's Existing plot | | | | Demonstration plot | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio |
| 1. | Sesame – N-32 + Line sowing +Seed Treatment + IPM | **16500** | **28900** | **12400** | **1.75** | **18400** | **39900** | **21500** | **2.17** |
| 2 | Mustard - Pusa Mustard - 26 + Line Sowing + Use of Sulpher @ 20 kg/ha + IPM | - | - | - | - | - | - | - | - |
| 3 | Linseed – **JLS-95** + Line Sowing + IPM | - | - | - | - | - | - | - | - |

**C. Socio-economic impact parameters**

| Sl. No. | Crop and variety Demonstrated | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/household) |
|---|---|---|---|---|---|---|---|---|
| 01 | Sesame – N-32 | 10200 | 100kg | Rs.78.30/kg | 10kg/household | 10kg | • Use for own consumption<br>• Health<br>• Education<br>• Social activity | 35 Man days/House hold |
| 02 | Mustard - Pusa Mustard -26 | - | - | - | - | - | - | - |
| 03 | Linseed – JLS-95 | - | - | - | - | - | - | - |

**D. Oilseeds Farmers' perception of the intervention demonstrated**

| Sl. No. | Technologies demonstrated (with name) | Farmers' Perception parameters | | | | | |
|---|---|---|---|---|---|---|---|
| | | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 02 | Sesame – N-32 + Line Sowing + seed treatment | Suitable in upland in Kharif | Yield is good Demand in marketing due to White colour Fruiting Start from Roots of plant | Yes | Oil Content is low in comparison to Black Til | Acceptable to all farmers of group | In proper seed rate the yield can be get maximum |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 03 | Mustard - Pusa-26 + Line Sowing + Use of Sulpher @ 20 kg/ha | - | - | - | - | - | - |
| 04 | Linseed – JLS-95 + Line Sowing + seed treatment + IPM | - | - | - | - | - | - |

**E. Specific Characteristics of Technology and Performance**

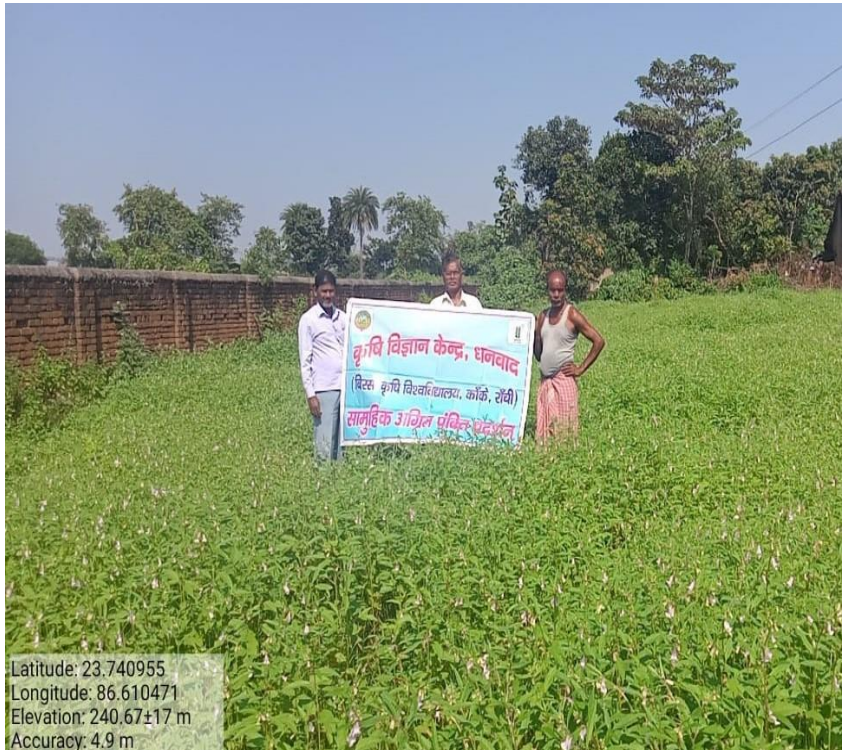
| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|---|---|---|---|
| Yield | Seed capsule setting start from root of the plant | Good | Yield is more than local variety |

**F. Extension activities under FLD conducted:**

| Sl. No. | Extension Activities organized | Date and place of activity | Number of farmer attended |
|---|---|---|---|
| **01 Sesame** | **Training**<br>**Field Day** | **22.07.2022 KVK, Dhanbad**<br>**29.10.2022** | **42**<br>**16** |
| **02 Mustard** | **Training**<br>**Field Day** | **28.10.2022 KVK, Dhanbad**<br>**-** | **52** |
| **03 Linseed** | **Training**<br>**Field Day** | **28.11.2022, Shitalpur**<br>**-** | **38** |

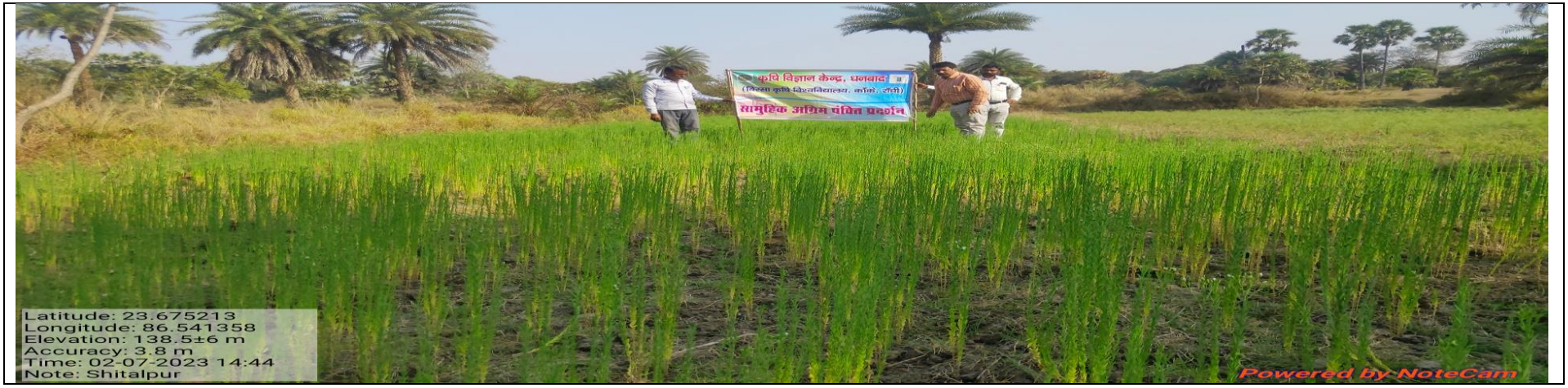
**a. Sequential good quality photographs (as per crop stages i.e. growth & development)**

**a. Crop: Sesame:**





Crop: Linseed



# CLUSTER FRONTLINE DEMONSTRATION OF PULSE CROP (2022-23) PERFORMANCE DATA REPORTING

**1. Name of KVK:- Krishi Vigyan Kendra, Dhanbad** **2. Year of establishment:- 2005**
**3. Host Institution:- Birsa Agricultural University Ranchi** **4. Address:- KVK, Baliapur, Dhanbad**
**5. District:- Dhanbad** **6. State:-Jharkhand**
**7. Performance of the demonstration:- Good**

**Season: Kharif 2022-23**

**A. Technical Parameters:**

| Sl. No | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to | | | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | District yield (D) | State yield (S) | Potential yield (P) | | | | Max. | Min. | Av. | D | S | P |
| 01 | Pigeon Pea | Local | 8.7 | 330 | 180 | 1230 | IPA-203 + Line sowing + Seed treatment + IPM | 57 | 20 | 16.8 | 13.3 | 15.7 | 58.33 | 66.67 | 33.3 |
| 02 | Green Gram | Local | 6.3 | 190 | 180 | 820 | Shikha + Line Sowing + Seed treatment + IPM | 28 | 10 | 9.6 | 7.4 | 8.6 | 28.0 | 28.4 | 15.9 |
| 03 | Black Gram | Local | 5.4 | 140 | 120 | 490 | IPU-2-43 + Line sowing + Seed treatment + IPM | 54 | 20 | 8.7 | 6.6 | 7.9 | 36.8 | 37.9 | 24.3 |

**Season: Rabi & Summer 2022-23**

**A. Technical Parameters:**

| Sl. No | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (Kg/ha) w.r.to | | | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | District yield (D) | State yield (S) | Potential yield (P) | | | | Max. | Min. | Av. | D | S | P |
| 01 | Chick Pea | Local | - | - | - | - | GNG-1581 + Line sowing + Seed treatment with rizobium | 54 | 20 | Crop is Standing | | | | | |
| 02 | Lentil | Local | - | - | - | - | IPL-316 +Line sowing+ Seed treatment with rizobium | 32 | 10 | Crop is Standing | | | | | |
| 03 | Field Pea | Local | - | - | - | - | IPFD-12-2 + Line Sowing + Seed Treatment | 27 | 10 | Crop is Standing | | | | | |
| 04 | Green Gram (Summer) | Local | - | - | - | - | Virat + Line sowing + Seed treatment + IPM | 28 | 10 | To be conducted | | | | | |

**C. Economic parameters**

| Sl. No. | Variety demonstrated & Technology demonstrated | Farmer's Existing plot | | | | Demonstration plot | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C ratio |
| 1 | Pigeon Pea IPA- 203 +Line sowing + Seed treatment | 29700 | 54800 | 25100 | 1.84:1 | 33000 | 98900 | 65900 | 2.99:1 |
| 2 | Green Gram Shikha + Line Sowing + Seed treatment + IPM | 25300 | 48500 | 23200 | 1.92:1 | 32500 | 66200 | 33700 | 2.04:1 |
| 3 | Black Gram IPU-2-43 + Line sowing + Seed treatment + IPM | 19200 | 35600 | 16400 | 1.85:1 | 25800 | 52100 | 26300 | 2.02:1 |
| 4 | Chick Pea GNG-1581 +Line sowing+ Seed treatment with rizobium | - | - | - | - | - | - | - | - |
| 5 | Lentil IPL-316 +Line sowing+ Seed treatment with rizobium | - | - | - | - | - | - | - | - |
| 6 | Field Pea IPFD-12-2 + Line Sowing + Seed treatment | - | - | - | - | - | - | - | - |
| 7 | Green Gram (Summer) Virat + Line sowing + | - | - | - | - | - | - | - | - |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Seed treatment + IPM | | | | | | | | |

**D. Socio-economic impact parameters**

| Sl. No. | Crop and variety Demonstrated | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used for own sowing (Kg) | Produce distributed to other farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/house hold) |
|---|---|---|---|---|---|---|---|---|
| 01 | Pigeon Pea-IPA- 203 | 31400 kg | 210 kg | 63/kg | 20 kg | 500 kg | • Use for own consumption<br>• Medicine Education | 58 Man days/House hold |
| 02 | Green Gram-Shikha | 8600 kg | 200 kg | 77/kg | 360 kg | 400 kg | • Use for own consumption<br>• Medicine<br>• Education | 66 Man days/House hold |
| 03 | Black Gram IPU-2-43 | 15800 kg | 150 kg | 66/kg | 300 kg | 350 kg | • Use for own consumption<br>• Medicine<br>• Education | 54 Man days/House hold |
| 04 | Chick Pea GNG-1581 + Line sowing+ Seed treatment with rizobium | - | - | - | - | - | - | - |
| 05 | Lentil IPL-316 +Line sowing+ Seed | - | - | - | - | - | - | - |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | treatment with rizobium | | | | | | | |
| 06 | Field Pea IPFD-12-2 + Line Sowing + Seed treatment | - | - | - | - | - | - | - |
| 07 | Green Gram- (Summer) Virat + Line sowing + Seed treatment + IPM | - | - | - | - | - | - | - |

**E. Pulse Farmers' perception of the intervention demonstrated**

| Sl. No. | Technologies demonstrated (with name) | Farmers' Perception parameters | | | | | |
|---|---|---|---|---|---|---|---|
| | | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 01 | Pigeon Pea- IPA- 203 + Line sowing + Seed treatment | - | - | - | - | - | - |
| 03 | Green Gram Shikha + Line Sowing + Seed treatment + IPM | Yes | Yes | Yes | No | Yes | No |
| 04 | Black Gram IPU-2-43 + Line sowing + Seed treatment + IPM | Yes | Yes | Yes | No | Yes | No |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 05 | Chick Pea GNG-1581 +Line sowing+ Seed treatment with rizobium | - | - | - | - | - | - |
| 06 | Lentil IPL-316 +Line sowing+ Seed treatment with rizobium | - | - | - | - | - | - |
| 07 | Green Gram-HUM-16 (Summer) | - | - | - | - | - | - |

**F. Specific Characteristics of Technology and Performance**

| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|---|---|---|---|
| Branching of Plant | Profuse branching of the Plant. | Line sowing behind the plough give the better result in branching. | Farmers are needed to small instrument for easily sowing of chickpea. |
| Variety | The variety gave better result in medium land situation after harvesting of Paddy. | | |

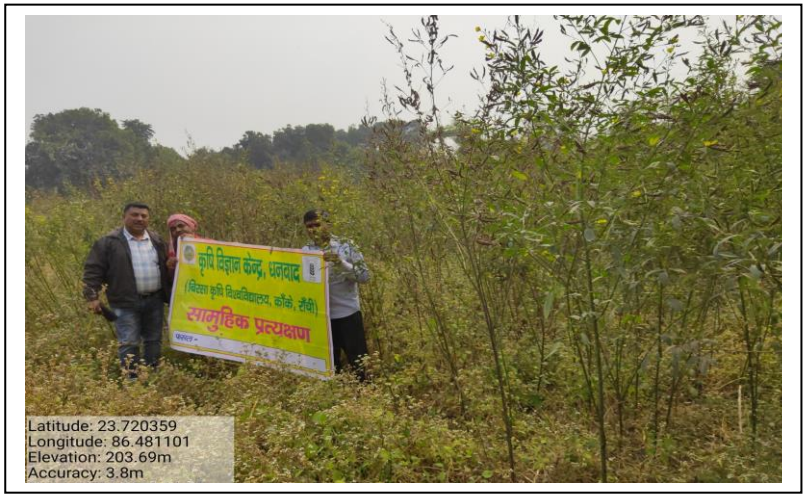
**G. Extension activities under FLD conducted:**

| Sl. No./Crop | Extension Activities organized | Date and place of activity | Number of farmer attended |
|---|---|---|---|
| **01 Pigeon Pea** | **Training (KVK)**<br>**Field Day** | **06.07.2022, Salpatra**<br>**29.09.2022, Baradaha** | **52**<br>**19** |
| **02 Green Gram** | **Training (KVK)**<br>**Field Day** | **04.07.2022, KVK, Dhanbad**<br>**27.09.2022, Baliapur Paschim** | **28**<br>**21** |
| **03 Black Gram** | **Training (KVK)**<br>**Field Day** | **05.07.2022, KVK, Dhanbad**<br>**08.10.2022 Baradaha** | **34**<br>**21** |
| **04 Chick Pea** | **Training (KVK)**<br>**Field Day** | **02.11.2022, KVK, Dhanbad**<br>**-** | **47**<br>**-** |
| **05 Lentil** | **Training (KVK)**<br>**Field Day** | **01.11.2022, KVK Dhanbad**<br>**-** | **27**<br>**-** |
| **06 Field Pea** | **Training**<br>**Field Day** | **21.11.2022, KVK, Dhanbad** | **25** |
| **07 Green Gram (Summer)** | **Training (KVK)**<br>**Field Day** | **-** | **-** |

**c. Sequential good quality photographs (as per crop stages i.e. growth & development)**

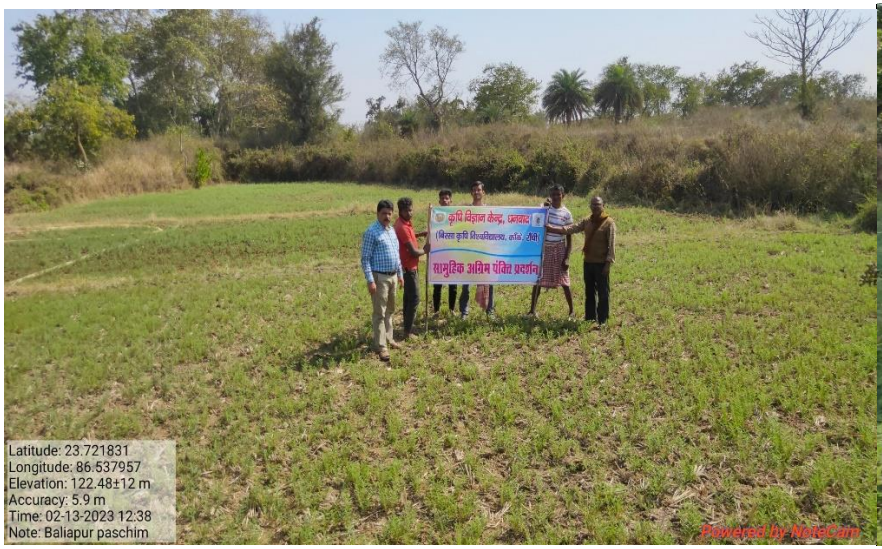
**a. Crop – Pigeon Pea**

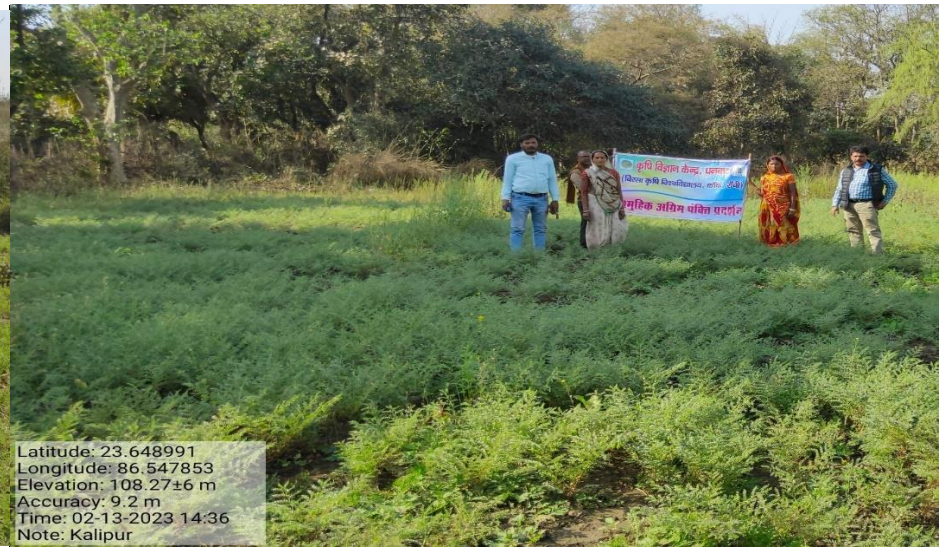

**b. Black Gram**

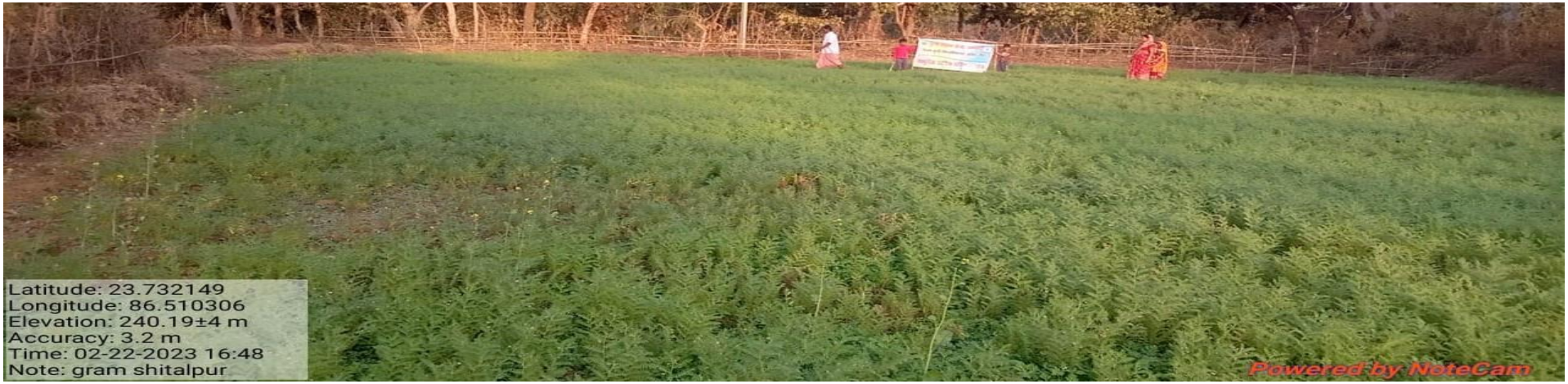



**c. Green Gram**

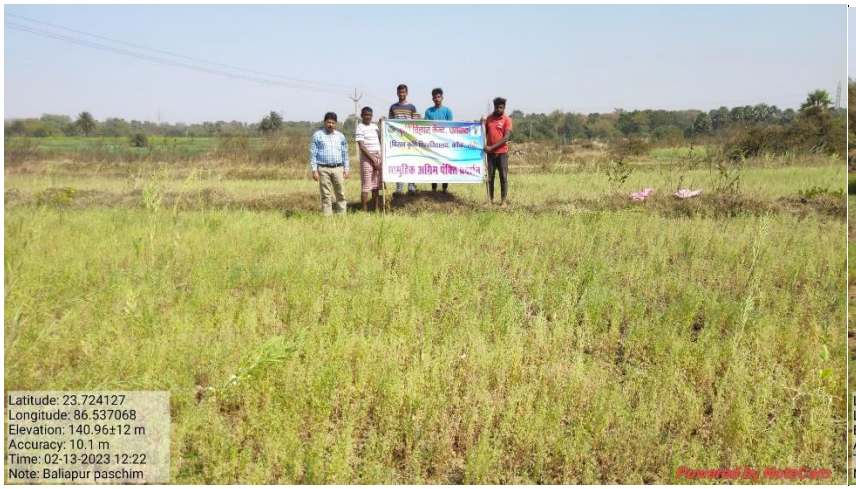

**d. Crop : Chick Pea**

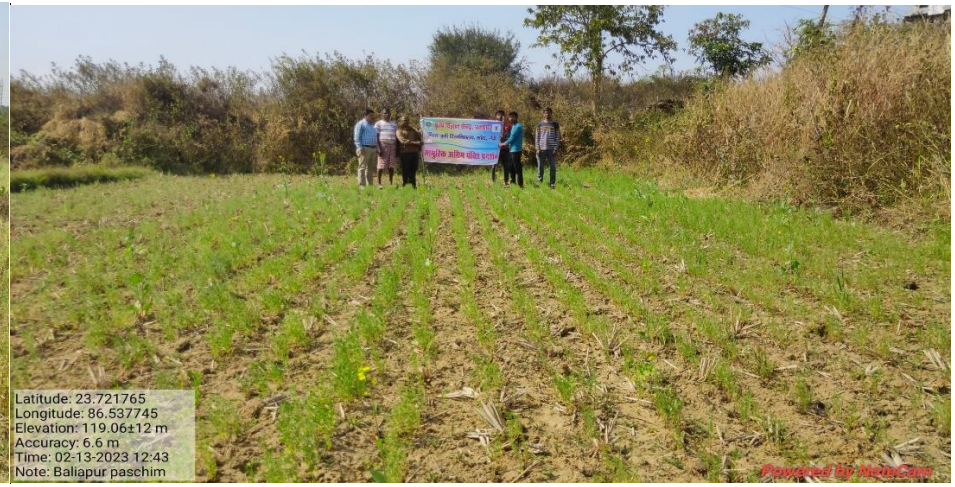


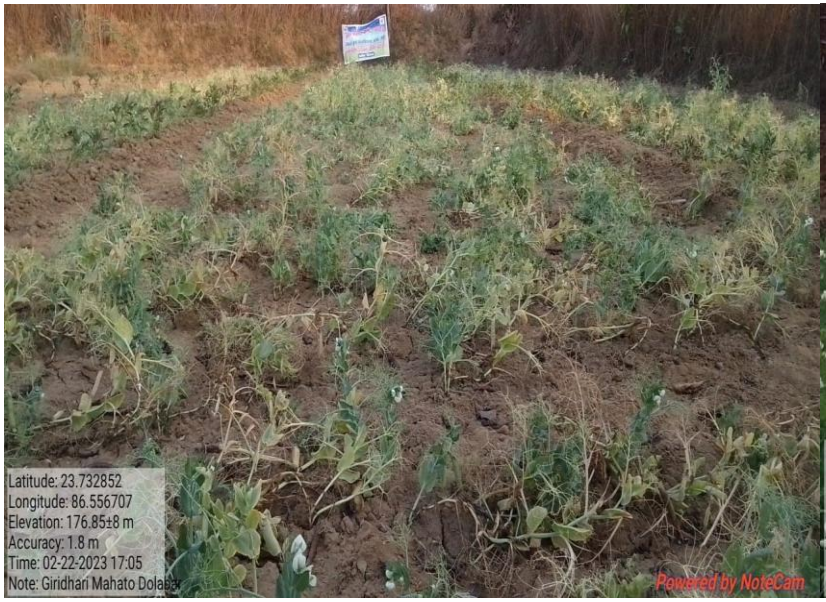



**e. Crop : Lentil**




**f. Field Pea**




**J. Details of budget utilization**

| Crop (provide crop wise information ) | Items | Budget Received (Rs.) | Budget Utilization (Rs.) | Balance (Rs.) |
|---|---|---|---|---|
| | i) Critical input | | | |
| | ii) TA/DA/POL etc. for monitoring | | | |
| | iii) Extension Activities (Field day) | | | |
| | iv)Publication of literature | | | |
| | Total | | | |

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

## A) Farmers and farm women Including the sponsored training programme (on campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **I. Crop Production** | | | | | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | | | | | |
| Cropping Systems | 3 | 32 | 16 | 48 | 8 | 3 | 11 | 10 | 7 | 16 | 50 | 26 | 76 |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | | |
| Water management | 2 | 27 | 13 | 40 | 6 | 2 | 8 | 7 | 4 | 11 | 40 | 19 | 59 |
| Seed production | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Crop Management | | | | | | | | | | | | | |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Cultivation of crops/Natural Farming | 1 | 22 | 1 | 23 | 2 | 2 | 4 | 2 | 1 | 3 | 26 | 4 | 30 |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | 1 | 17 | 1 | 18 | 5 | 3 | 8 | 2 | 3 | 5 | 24 | 7 | 31 |
| Enterprise development | | | | | | | | | | | | | |
| Skill development on Mushroom Cultivation | | | | | | | | | | | | | |
| Yield increment of Vegetables | 2 | 21 | 9 | 30 | 6 | 3 | 9 | 8 | 4 | 12 | 35 | 19 | 54 |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | | | | | | | | | | | | | |
| Nursery raising | 1 | 17 | 9 | 26 | 2 | 0 | 2 | 3 | 1 | 4 | 22 | 10 | 32 |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| Training and pruning | | | | | | | | | | | | | |
| **b) Fruits** | | | | | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | 1 | 20 | 4 | 24 | 0 | 6 | 6 | 10 | 0 | 10 | 30 | 10 | 40 |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | 2 | 22 | 41 | 63 | 2 | 2 | 4 | 2 | 1 | 3 | 26 | 44 | 70 |
| Others, if any(INM) | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | 2 | 23 | 8 | 31 | 7 | 5 | 12 | 5 | 4 | 9 | 35 | 17 | 52 |
| **Natural Farming** | | | | | | | | | | | | | |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | | | | | | | | | | | | | |
| Others, if any Goat farming | | | | | | | | | | | | | |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | 1 | 11 | 8 | 19 | 2 | 6 | 8 | 0 | 3 | 3 | 13 | 17 | 30 |
| Design and development of low/minimum cost diet | 1 | 0 | 23 | 23 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 30 | 30 |
| Designing and development for high nutrient efficiency diet for Immunity Development | 2 | 0 | 0 | 0 | 0 | 33 | 33 | 0 | 27 | 27 | 0 | 60 | 60 |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development,Herbal Gulal | 1 | 0 | 28 | 28 | 0 | 1 | 1 | 0 | 5 | 5 | 0 | 34 | 34 |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of rural Women | 1 | 0 | 14 | 14 | 0 | 7 | 7 | 0 | 3 | 3 | 0 | 24 | 24 |
| Location specific drudgery reduction technologies | | | | | | | | | | | | | |
| Rural Crafts | 1 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 30 | 30 |
| Capacity building on Horticultural Crops | | | | | | | | | | | | | |
| Women and child care | 2 | 9 | 23 | 32 | 6 | 0 | 6 | 2 | 2 | 4 | 17 | 25 | 42 |
| Others, if any | | | | | | | | | | | | | |
| **VI.Agril. Engineering** | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Installation and maintenance of micro irrigation systems | 2 | 24 | 8 | 32 | 7 | 0 | 7 | 9 | 0 | 9 | 40 | 8 | 48 |
| Use of Plastics in farming practices | | | | | | | | | | | | | |
| Production of small tools and implements | 1 | 0 | 0 | 0 | 20 | 17 | 37 | 0 | 0 | 0 | 20 | 17 | 37 |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and Value Addition | 1 | 2 | 11 | 13 | 6 | 7 | 13 | 4 | 3 | 7 | 12 | 21 | 33 |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Others, Use of Ag. Implements in Rabi Crops | 1 | 12 | 13 | 25 | 2 | | 2 | 2 | 3 | 5 | 16 | 16 | 32 |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Disease Management | 2 | 38 | 17 | 55 | - | 2 | 2 | - | 3 | 3 | 38 | 22 | 60 |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | | | | | | | | | | | | | |
| Others, Mushroom Production | 6 | 35 | 23 | 58 | 15 | 27 | 42 | 35 | 24 | 59 | 85 | 74 | 159 |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IX. Production of Inputs at site** | | | | | | | | | | | | | |
| Seed Production | | | | | | | | | | | | | |
| Planting material | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| production | | | | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | | | | |
| Vermi-compost production | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 17 | 40 | 23 | 17 | 40 |
| 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 | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | | | | | | | | | | | | | |
| Group dynamics | | | | | | | | | | | | | |
| Formation and Management of SHGs | 1 | 17 | 2 | 19 | 6 | 6 | 12 | 0 | 4 | 4 | 23 | 12 | 35 |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | 1 | 16 | 10 | 26 | 0 | 2 | 2 | 2 | 0 | 2 | 18 | 12 | 30 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| **XII. Others (Pl. Specify)** | | | | | | | | | | | | | |
| **TOTAL** | 42 | 365 | 307 | 672 | 108 | 141 | 279 | 126 | 126 | 251 | 599 | 600 | 1199 |

### B) Rural Youth Including the sponsored training programmes (on campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Mushroom Production | 3 | 39 | 8 | 47 | 7 | 4 | 11 | 4 | 5 | 8 | 50 | 17 | 67 |
| Bee-keeping | | | | | | | | | | | | | |
| Integrated farming/Natural Farming | 2 | 12 | 23 | 35 | 3 | 11 | 14 | 0 | 14 | 14 | 15 | 48 | 63 |
| Seed production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Integrated Farming | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Vermi-culture | 1 | 13 | 5 | 18 | 6 | 0 | 6 | 3 | 0 | 3 | 22 | 5 | 27 |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | | | | | | | | | | | | | |
| Commercial fruit production | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Repair and maintenance of farm machinery and implements | 1 | 17 | 9 | 26 | 2 | | 2 | 2 | | 2 | 21 | 9 | 30 |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | | | | | | | | | | | | | |
| Sheep and goat rearing | 1 | 12 | 9 | 21 | 3 | 5 | 8 | 0 | 3 | 3 | 15 | 17 | 32 |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | 2 | 2 | 28 | 30 | 0 | 17 | 17 | 0 | 8 | 8 | 2 | 53 | 55 |
| Mushroom Cultivation | | | | | | | | | | | | | |
| TOTAL | 10 | 95 | 82 | 177 | 21 | 37 | 58 | 9 | 30 | 38 | 125 | 149 | 274 |

## C) Extension Personnel Including the sponsored training programmes (on campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | | | | | | | | | | | | | |
| Value addition | 1 | 2 | 13 | 15 | 0 | 12 | 12 | 0 | 8 | 8 | 2 | 33 | 35 |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Group Dynamics and farmers organization | 2 | 32 | 25 | 57 | 09 | 5 | 14 | 8 | 6 | 14 | 49 | 36 | 85 |
| Information networking among farmers | 1 | 17 | 12 | 29 | 8 | 4 | 12 | 7 | 3 | 10 | 32 | 19 | 51 |
| Capacity building for ICT | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| application | | | | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | | | | | | | | | | | | | |
| Production and use of organic inputs | 1 | 19 | 11 | 30 | 4 | 1 | 5 | 2 | 0 | 2 | 25 | 12 | 37 |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| TOTAL | 5 | 70 | 61 | 131 | 21 | 22 | 43 | 17 | 17 | 34 | 108 | 100 | 208 |

## D) Farmers and farm women including the sponsored training programmes (off campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **I. Crop Production** | | | | | | | | | | | | | |
| Weed Management | 1 | 17 | 4 | 21 | 4 | 2 | 6 | 7 | 0 | 7 | 28 | 6 | 34 |
| Resource Conservation Technologies | 1 | 8 | 5 | 13 | 10 | 8 | 18 | 2 | 1 | 3 | 20 | 14 | 34 |
| Cropping Systems | 1 | 10 | 5 | 15 | 8 | 4 | 12 | 1 | 1 | 2 | 19 | 10 | 29 |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | 1 | 12 | 7 | 19 | 2 | 0 | 2 | 3 | 0 | 3 | 15 | 7 | 22 |
| Water management | 1 | 10 | 5 | 15 | 0 | 0 | 0 | 5 | 5 | 10 | 15 | 10 | 25 |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 1 | 14 | 7 | 21 | 5 | 0 | 5 | 6 | 3 | 9 | 25 | 10 | 35 |
| Integrated Crop Management | | | | | | | | | | | | | |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | 1 | 10 | 2 | 12 | 5 | 4 | 9 | 3 | 3 | 6 | 18 | 9 | 27 |
| Others, (cultivation of crops ) | | | | | | | | | | | | | |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | 1 | 12 | 9 | 21 | 2 | 0 | 2 | 5 | 0 | 5 | 19 | 9 | 28 |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | | | | | | | | | | | | | |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | 1 | 12 | 3 | 15 | 6 | 2 | 8 | 0 | 0 | 0 | 18 | 5 | 23 |
| Nursery raising | 1 | 16 | 6 | 22 | 8 | 3 | 11 | 4 | 2 | 6 | 28 | 11 | 39 |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| Training and pruning | 1 | 8 | 4 | 12 | 6 | 3 | 9 | 1 | 1 | 2 | 15 | 8 | 23 |
| **b) Fruits** | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| 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 | 1 | 10 | 2 | 12 | 4 | 1 | 5 | 4 | 1 | 5 | 18 | 4 | 22 |
| Others, if any(INM) | | | | | | | | | | | | | |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post-harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | | | | | | | | | | | | | |
| Soil and Water Conservation | 1 | 12 | 9 | 21 | 4 | 2 | 6 | 0 | 0 | 0 | 16 | 11 | 27 |
| Integrated Nutrient Management | 1 | 17 | 3 | 20 | 0 | 0 | 0 | 0 | 1 | 1 | 17 | 4 | 21 |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | | | | | | | | | | | | | |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | | | | | | | | | | | | | |
| Feed management | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any Goat farming | | | | | | | | | | | | | |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of low/minimum cost diet | 1 | 13 | 8 | 21 | 0 | 6 | 6 | 0 | 7 | 7 | 13 | 21 | 34 |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | | | | |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | 1 | 7 | 7 | 14 | 2 | 4 | 6 | 4 | 3 | 7 | 13 | 14 | 27 |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of rural Women | 1 | 2 | 12 | 14 | 1 | 4 | 5 | 2 | 6 | 8 | 5 | 22 | 27 |
| Location specific drudgery reduction technologies | 1 | 5 | 13 | 18 | 0 | 12 | 12 | 0 | 7 | 7 | 5 | 32 | 37 |
| Rural Crafts | 1 | 0 | 14 | 14 | 0 | 4 | 4 | 0 | 6 | 6 | 0 | 24 | 24 |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | 1 | 3 | 12 | 15 | 0 | 6 | 6 | 0 | 4 | 4 | 3 | 22 | 25 |
| Others, if any | | | | | | | | | | | | | |
| **VI.Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | 1 | 20 | 3 | 23 | 0 | 3 | 3 | 6 | 0 | 6 | 26 | 6 | 32 |
| Use of Plastics in farming practices | 1 | 6 | 4 | 10 | 8 | 5 | 13 | 5 | 2 | 7 | 21 | 11 | 32 |
| Production of small tools and implements | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | 1 | 2 | 14 | 16 | 1 | 6 | 7 | 1 | 4 | 5 | 4 | 24 | 28 |
| Post-Harvest Technology | 1 | 1 | 2 | 3 | 8 | 2 | 10 | 7 | 8 | 15 | 16 | 12 | 28 |
| Others, if any | | | | | | | | | | | | | |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | 1 | 14 | 6 | 20 | 2 | 3 | 5 | 4 | 3 | 7 | 20 | 12 | 32 |
| Integrated Disease Management | 2 | 12 | 49 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 49 | 61 |
| Bio-control of pests and | 1 | 22 | 10 | 32 | 1 | 0 | 1 | 0 | 0 | 0 | 23 | 10 | 33 |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | 1 | 21 | 5 | 26 | 2 | 0 | 2 | 0 | 0 | 0 | 23 | 5 | 28 |
| Mushroom Cultivation | 1 | 10 | 4 | 14 | 5 | 0 | 5 | 12 | 14 | 26 | 27 | 18 | 45 |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **IX. Production of Inputs at site** | | | | | | | | | | | | | |
| Seed Production | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | | | | |
| Organic manures production | | | | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | | | | | | | | | | | | | |
| Group dynamics | | | | | | | | | | | | | |
| Formation and Management of SHGs | 1 | 0 | 16 | 16 | 0 | 8 | 8 | 0 | 0 | 0 | 0 | 24 | 24 |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | 2 | 28 | 9 | 37 | 9 | 0 | 9 | 0 | 0 | 0 | 37 | 9 | 46 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| XI Agro-forestry | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Zero Budget Farming | | | | | | | | | | | | | |
| Integrated Farming Systems | 1 | 2 | 28 | 30 | 1 | | 1 | 1 | | 1 | 4 | 28 | 32 |
| **XII. Others Millets Processing** | 1 | 0 | 19 | 19 | 0 | 7 | 7 | 4 | 5 | 9 | 4 | 31 | 35 |
| **TOTAL** | 34 | 326 | 304 | 630 | 99 | 95 | 194 | 84 | 84 | 168 | 509 | 483 | 992 |

## E) RURAL YOUTH including the sponsored training programmes (Off Campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Mushroom Production | 1 | 7 | 4 | 11 | 0 | 0 | 0 | 4 | 3 | 7 | 11 | 7 | 18 |
| Bee-keeping | | | | | | | | | | | | | |
| Integrated farming | 1 | 8 | 5 | 13 | 6 | 5 | 11 | 2 | 0 | 2 | 16 | 10 | 26 |
| Seed production | 1 | 10 | 2 | 12 | 8 | 1 | 9 | 5 | 1 | 6 | 23 | 4 | 27 |
| Production of organic inputs | 1 | 16 | 4 | 20 | 4 | 1 | 5 | 6 | 1 | 7 | 26 | 6 | 32 |
| Nutrition Gardening | 1 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 22 | 22 |
| Planting material production | 1 | 10 | 5 | 15 | 6 | 2 | 8 | 3 | 1 | 4 | 19 | 8 | 27 |
| 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 | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Tailoring and Stitching | | | | | | | | | | | | | |
| Rural Crafts | 1 | 0 | 0 | 0 | 28 | 14 | 42 | 0 | 0 | 0 | 28 | 14 | 42 |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | 7 | 51 | 38 | 89 | 52 | 23 | 75 | 20 | 10 | 30 | 123 | 71 | 194 |

## F) Extension Personnel including the sponsored training programme (Off Campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | 1 | 12 | 2 | 14 | 3 | 0 | 3 | 2 | 0 | 2 | 17 | 2 | 19 |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Protected cultivation technology | 1 | 14 | 1 | 15 | 6 | 0 | 6 | 3 | 1 | 4 | 23 | 2 | 25 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Group Dynamics and farmers organization | | | | | | | | | | | | | |
| Information networking among farmers | | | | | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food & Nutrition Security security | 1 | 0 | 14 | 14 | 0 | 7 | 7 | 0 | 10 | 10 | 0 | 31 | 31 |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing & Millet Processing | 1 | 2 | 11 | 13 | 0 | 6 | 6 | 0 | 2 | 2 | 2 | 19 | 21 |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Crop intensification/Natural FARMING | 1 | 17 | 11 | 28 | 4 | 0 | 4 | 2 | 0 | 2 | 23 | 11 | 34 |
| TOTAL | 5 | 45 | 39 | 84 | 13 | 13 | 26 | 7 | 13 | 20 | 65 | 65 | 130 |

## G) Consolidated table (ON and OFF Campus)

### i. Farmers & Farm Women

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| **I. Crop Production** | | | | | | | | | | | | | |
| Weed Management | 1 | 17 | 4 | 21 | 4 | 2 | 6 | 7 | 0 | 7 | 28 | 6 | 34 |
| Resource Conservation Technologies | 1 | 8 | 5 | 13 | 10 | 8 | 18 | 2 | 1 | 3 | 20 | 14 | 34 |
| Cropping Systems | 4 | 42 | 21 | 63 | 16 | 7 | 23 | 11 | 8 | 18 | 69 | 36 | 105 |
| Crop Diversification | | | | | | | | | | | | | |
| Integrated Farming | 2 | 14 | 35 | 49 | 3 | 0 | 3 | 4 | 0 | 4 | 19 | 35 | 54 |
| Water management | 3 | 37 | 18 | 55 | 6 | 2 | 8 | 12 | 9 | 21 | 55 | 29 | 84 |
| Seed production | | | | | | | | | | | | | |
| Nursery management | 1 | 14 | 7 | 21 | 5 | 0 | 5 | 6 | 3 | 9 | 25 | 10 | 35 |
| Integrated Crop Management | | | | | | | | | | | | | |
| Fodder production | | | | | | | | | | | | | |
| Production of organic inputs | | | | | | | | | | | | | |
| Others, (cultivation of crops ) | 1 | 22 | 1 | 23 | 2 | 2 | 4 | 2 | 1 | 3 | 26 | 4 | 30 |
| TOTAL | **13** | **154** | **91** | **245** | **46** | **21** | **67** | **44** | **22** | **65** | **242** | **134** | **376** |
| **II. Horticulture** | | | | | | | | | | | | | |
| **a) Vegetable Crops** | | | | | | | | | | | | | |
| Integrated nutrient management | | | | | | | | | | | | | |
| Water management | 2 | 29 | 10 | 39 | 7 | 3 | 10 | 7 | 3 | 10 | 43 | 16 | 59 |
| Enterprise development | | | | | | | | | | | | | |
| Skill development | | | | | | | | | | | | | |
| Yield increment | 2 | 21 | 9 | 30 | 6 | 3 | 9 | 8 | 4 | 12 | 35 | 16 | 51 |
| Production of low volume and high value crops | | | | | | | | | | | | | |
| Off-season vegetables | 1 | 12 | 3 | 15 | 6 | 2 | 8 | 0 | 0 | 0 | 18 | 5 | 23 |
| Nursery raising | 2 | 33 | 15 | 48 | 10 | 3 | 13 | 7 | 3 | 10 | 50 | 21 | 71 |
| Exotic vegetables like Broccoli | | | | | | | | | | | | | |
| Export potential vegetables | | | | | | | | | | | | | |
| Grading and standardization | | | | | | | | | | | | | |
| Protective cultivation (Green Houses, Shade Net etc.) | | | | | | | | | | | | | |
| Others, if any (Cultivation of Vegetable) | | | | | | | | | | | | | |
| TOTAL | **7** | **95** | **37** | **132** | **29** | **11** | **40** | **22** | **10** | **32** | **146** | **58** | **204** |
| **b) Fruits** | | | | | | | | | | | | | |
| Training and Pruning | 1 | 8 | 4 | 12 | 6 | 3 | 9 | 1 | 1 | 2 | 15 | 8 | 23 |
| Layout and Management of Orchards | | | | | | | | | | | | | |
| Cultivation of Fruit | 1 | 20 | 4 | 24 | 0 | 6 | 6 | 10 | 0 | 10 | 30 | 10 | 40 |
| Management of young plants/orchards | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Export potential fruits | | | | | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | | | | | |
| Plant propagation techniques | 3 | 32 | 43 | 75 | 6 | 3 | 9 | 6 | 2 | 8 | 44 | 48 | 92 |
| Others, if any(INM) | | | | | | | | | | | | | |
| TOTAL | **5** | **60** | **51** | **111** | **12** | **12** | **24** | **17** | **3** | **20** | **89** | **66** | **155** |
| **c) Ornamental Plants** | | | | | | | | | | | | | |
| Nursery Management | | | | | | | | | | | | | |
| Management of potted plants | | | | | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **d) Plantation crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **e) Tuber crops** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **f) Spices** | | | | | | | | | | | | | |
| Production and Management technology | | | | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **g) Medicinal and Aromatic Plants** | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Production and management technology | | | | | | | | | | | | | |
| Post harvest technology and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **III. Soil Health and Fertility Management** | | | | | | | | | | | | | |
| Soil fertility management | 2 | 23 | 8 | 31 | 7 | 5 | 12 | 5 | 4 | 9 | 35 | 17 | 52 |
| Soil and Water Conservation | 1 | 12 | 9 | 21 | 4 | 2 | 6 | 0 | 0 | 0 | 16 | 11 | 27 |
| Integrated Nutrient Management | 1 | 17 | 3 | 20 | 0 | 0 | 0 | 0 | 1 | 1 | 17 | 4 | 21 |
| Production and use of organic inputs | | | | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **4** | **52** | **20** | **72** | **11** | **7** | **18** | **5** | **5** | **10** | **68** | **32** | **100** |
| **IV. Livestock Production and Management** | | | | | | | | | | | | | |
| Dairy Management | | | | | | | | | | | | | |
| Poultry Management | | | | | | | | | | | | | |
| Piggery Management | | | | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | | | | |
| Disease Management | | | | | | | | | | | | | |
| Feed management | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Others, if any (Goat farming) | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **V. Home Science/Women empowerment** | | | | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening | | | | | | | | | | | | | |
| Design and development of | 2 | 13 | 31 | 44 | 0 | 13 | 13 | 0 | 7 | 7 | 13 | 51 | 64 |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| low/minimum cost diet | | | | | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | 2 | 0 | 0 | 0 | 0 | 33 | 33 | 0 | 27 | 27 | 0 | 60 | 60 |
| Minimization of nutrient loss in processing | | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | 1 | 7 | 7 | 14 | 2 | 4 | 6 | 4 | 3 | 7 | 13 | 14 | 27 |
| Storage loss minimization techniques | | | | | | | | | | | | | |
| Enterprise development | 1 | 0 | 28 | 28 | 0 | 1 | 1 | 0 | 5 | 5 | 0 | 34 | 34 |
| Value addition | | | | | | | | | | | | | |
| Income generation activities for empowerment of rural Women | 2 | 2 | 26 | 28 | 1 | 11 | 12 | 2 | 9 | 11 | 5 | 46 | 51 |
| Location specific drudgery reduction technologies | 1 | 5 | 13 | 18 | 0 | 12 | 12 | 0 | 7 | 7 | 5 | 32 | 37 |
| Rural Crafts | 2 | 0 | 14 | 14 | 0 | 34 | 34 | 0 | 6 | 6 | 0 | 54 | 54 |
| Capacity building | | | | | | | | | | | | | |
| Women and child care | 1 | 3 | 12 | 15 | 0 | 6 | 6 | 0 | 4 | 4 | 3 | 22 | 25 |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **12** | **30** | **131** | **161** | **3** | **114** | **117** | **6** | **68** | **74** | **39** | **313** | **352** |
| **VI.Agril. Engineering** | | | | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | 3 | 44 | 11 | 55 | 7 | 3 | 10 | 15 | 0 | 15 | 66 | 14 | 80 |
| Use of Plastics in farming practices | 1 | 6 | 4 | 10 | 8 | 5 | 13 | 5 | 2 | 7 | 21 | 11 | 32 |
| Production of small tools and implements | 1 | 0 | 0 | 0 | 20 | 17 | 37 | 0 | 0 | 0 | 20 | 17 | 37 |
| Repair and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| Small scale processing and value addition | 2 | 4 | 25 | 29 | 7 | 13 | 20 | 5 | 7 | 12 | 16 | 45 | 61 |
| Post-Harvest Technology | 1 | 1 | 2 | 3 | 8 | 2 | 10 | 7 | 8 | 15 | 16 | 12 | 28 |
| Others, if any | 1 | 12 | 13 | 25 | 2 | | 2 | 2 | 3 | 5 | 16 | 16 | 32 |
| TOTAL | **9** | **67** | **55** | **122** | **52** | **40** | **92** | **34** | **20** | **54** | **155** | **115** | **270** |
| **VII. Plant Protection** | | | | | | | | | | | | | |
| Integrated Pest Management | 1 | 14 | 6 | 20 | 2 | 3 | 5 | 4 | 3 | 7 | 20 | 12 | 32 |
| Integrated Disease Management | 4 | 50 | 66 | 116 | 0 | 2 | 2 | 0 | 3 | 3 | 50 | 71 | 121 |
| Bio-control of pests and diseases | | | | | | | | | | | | | |
| Production of bio control agents and bio pesticides | 1 | 21 | 5 | 26 | 2 | 0 | 2 | 0 | 0 | 0 | 23 | 5 | 28 |
| Others, if any (Mushroom Production) | 7 | 45 | 27 | 72 | 20 | 27 | 47 | 47 | 38 | 85 | 112 | 92 | 204 |
| TOTAL | **13** | **130** | **104** | **234** | **24** | **32** | **56** | **51** | **44** | **95** | **205** | **180** | **385** |
| **VIII. Fisheries** | | | | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | | | | |
| Composite fish culture & fish disease | | | | | | | | | | | | | |
| Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond | | | | | | | | | | | | | |
| Hatchery management and culture of freshwater prawn | | | | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | | | | | |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Shrimp farming | | | | | | | | | | | | | |
| Edible oyster farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **IX. Production of Inputs at site** | | | | | | | | | | | | | |
| Seed Production | | | | | | | | | | | | | |
| Planting material production | | | | | | | | | | | | | |
| Bio-agents production | | | | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | | | | |
| Vermi-compost production | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 17 | 40 | 23 | 17 | 40 |
| 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 | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **2** | **0** | **0** | **0** | **0** | **0** | **0** | **23** | **17** | **40** | **23** | **17** | **40** |
| **X. Capacity Building and Group Dynamics** | | | | | | | | | | | | | |
| Leadership development | | | | | | | | | | | | | |
| Group dynamics | | | | | | | | | | | | | |
| Formation and Management of SHGs | 2 | 17 | 18 | 35 | 6 | 14 | 20 | 0 | 4 | 4 | 23 | 36 | 59 |
| Mobilization of social capital | | | | | | | | | | | | | |
| Entrepreneurial development of farmers/youths | 3 | 44 | 19 | 63 | 9 | 2 | 11 | 2 | 0 | 2 | 55 | 21 | 76 |
| WTO and IPR issues | | | | | | | | | | | | | |
| Others, if any | | | | | | | | | | | | | |
| TOTAL | **5** | **61** | **37** | **98** | **15** | **16** | **31** | **2** | **4** | **6** | **78** | **57** | **135** |
| **XI Agro-forestry** | | | | | | | | | | | | | |
| Production technologies | | | | | | | | | | | | | |
| Nursery management | | | | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | |
| **XII. Others (Pl. specify)** | | | | | | | | | | | | | |
| **TOTAL** | | | | | | | | | | | | | |
| **GRAND TOTAL** | **70** | **649** | **526** | **1175** | **192** | **253** | **445** | **204** | **193** | **396** | **1045** | **972** | **2017** |

**ii. RURAL YOUTH (On and Off Campus)**

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Mushroom Production | 4 | 46 | 12 | 58 | 7 | 4 | 11 | 8 | 8 | 15 | 61 | 24 | 85 |
| Bee-keeping | | | | | | | | | | | | | |
| Integrated farming | 3 | 20 | 28 | 48 | 9 | 16 | 25 | 2 | 14 | 16 | 31 | 58 | 89 |
| Seed production | 1 | 10 | 2 | 12 | 8 | 1 | 9 | 5 | 1 | 6 | 23 | 4 | 27 |
| Production of | 1 | 16 | 4 | 20 | 4 | 1 | 5 | 6 | 1 | 7 | 26 | 6 | 32 |

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| organic inputs | | | | | | | | | | | | | |
| Planting material production | 1 | 10 | 5 | 15 | 6 | 2 | 8 | 3 | 1 | 4 | 19 | 8 | 27 |
| Vermi-culture | 1 | 13 | 5 | 18 | 6 | 0 | 6 | 3 | 0 | 3 | 22 | 5 | 27 |
| Sericulture | | | | | | | | | | | | | |
| Protected cultivation of vegetable crops | 1 | 16 | 4 | 20 | 4 | 1 | 5 | 6 | 1 | 7 | 26 | 6 | 32 |
| Commercial fruit production | | | | | | | | | | | | | |
| Repair and maintenance of farm machinery and implements | 1 | 17 | 9 | 26 | 2 | 0 | 2 | 2 | 0 | 2 | 21 | 9 | 30 |
| Nursery Management of Horticulture crops | | | | | | | | | | | | | |
| Training and pruning of orchards | | | | | | | | | | | | | |
| Value addition | | | | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | | | | |
| Dairying | | | | | | | | | | | | | |
| Sheep and goat rearing | 1 | 12 | 9 | 21 | 3 | 5 | 8 | 0 | 3 | 3 | 15 | 17 | 32 |
| Quail farming | | | | | | | | | | | | | |
| Piggery | | | | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | | | | |
| Poultry production | | | | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | | | | |
| Para vets | | | | | | | | | | | | | |
| Para extension workers | | | | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | | | | |
| Pearl culture | | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | | |
| Post-Harvest Technology | | | | | | | | | | | | | |
| Tailoring and Stitching | 2 | 2 | 28 | 30 | 0 | 17 | 17 | 0 | 8 | 8 | 2 | 53 | 55 |
| Rural Crafts | 1 | 0 | 0 | 0 | 28 | 14 | 42 | 0 | 0 | 0 | 28 | 14 | 42 |
| Enterprise development | | | | | | | | | | | | | |
| Others if any (Nutrition Gardening)) | 1 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 4 | 4 | 0 | 22 | 22 |
| TOTAL | **18** | **162** | **124** | **286** | **77** | **61** | **138** | **35** | **41** | **75** | **274** | **226** | **500** |

### iii. Extension Personnel (On and Off Campus)

| Thematic Area | No. of Courses | No. of Participants | | | | | | | | | Grand Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Other | | | SC | | | ST | | | | | |
| | | M | F | T | M | F | T | M | F | T | M | F | T |
| Productivity enhancement in field crops | 1 | 12 | 2 | 14 | 3 | 0 | 3 | 2 | 0 | 2 | 17 | 2 | 19 |
| Integrated Pest Management | | | | | | | | | | | | | |
| Integrated Nutrient management | | | | | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | | |
| Value addition | 1 | 2 | 13 | 15 | 0 | 12 | 12 | 0 | 8 | 8 | 2 | 33 | 35 |
| Protected cultivation technology | 1 | 14 | 1 | 15 | 6 | 0 | 6 | 3 | 1 | 4 | 23 | 2 | 25 |
| Formation and Management of SHGs | | | | | | | | | | | | | |
| Group Dynamics and farmers organization | 2 | 32 | 25 | 57 | 9 | 5 | 14 | 8 | 6 | 14 | 49 | 36 | 85 |
| Information networking among farmers | 1 | 17 | 12 | 29 | 8 | 4 | 12 | 7 | 3 | 10 | 32 | 19 | 51 |
| Capacity building for ICT application | | | | | | | | | | | | | |
| Care and maintenance of farm machinery and implements | | | | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | | | | |
| Management in farm animals | | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | | |
| Household food security | 1 | 0 | 14 | 14 | 0 | 7 | 7 | 0 | 10 | 10 | 0 | 31 | 31 |
| Women and Child care | | | | | | | | | | | | | |
| Low cost and nutrient efficient diet designing | 1 | 2 | 11 | 13 | 0 | 6 | 6 | 0 | 2 | 2 | 2 | 19 | 21 |
| Production and use of organic inputs | 1 | 19 | 11 | 30 | 4 | 1 | 5 | 2 | 0 | 2 | 25 | 12 | 37 |
| Gender mainstreaming through SHGs | | | | | | | | | | | | | |
| Crop intensification | 1 | 17 | 11 | 28 | 4 | 0 | 4 | 2 | 0 | 2 | 23 | 11 | 34 |
| Others if any | | | | | | | | | | | | | |
| TOTAL | **10** | **115** | **100** | **215** | **34** | **35** | **69** | **24** | **30** | **54** | **173** | **165** | **338** |

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

| Discipline | Clientele | Title of the training programme | Duration in days | Venue (Off / On Campus) | Number of participants | | | Number of SC/ST | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Male | Female | Total | Male | Female | Total |
| PP | PF | Disease management of Wheat and Mustard. | 2 | On | 21 | 9 | 30 | 0 | 2 | 2 |
| Engg | PF | Use and Precaution of Different Plant Protection Equipment for Rabi Crop | 2 | On | 21 | 9 | 30 | 2 | 2 | 4 |
| PP | RY | Mushroom Production | 5 | On | 0 | 40 | 40 | 0 | 31 | 31 |
| Engg | PF | Storage of Grain on House Hold Level | 2 | Off | 18 | 12 | 30 | 2 | 2 | 4 |
| H.Sc. | PF | Importance of Nutri Garden for their Farm Families Food Nutrition & Economic security. | 1 | Off | 17 | 20 | 37 | 12 | 0 | 12 |
| PP | RY | Mushroom Production | 5 | On | 32 | 8 | 40 | 0 | 10 | 10 |
| H.Sc. | RY | Value Addition of Fruits & Vegetables for Food & Nutrition Security | 5 | On | 7 | 19 | 26 | 13 | 0 | 13 |
| Hort. | PF | On Campus Training on Nursery development for Horticultural Crops | 5 | On | 6 | 25 | 31 | 6 | 7 | 13 |
| PP | | Mushroom Cultivation techniques | 5 | On | 3 | 37 | 40 | 3 | 17 | 20 |
| S.Sc. | | Production Technique of Vermi Compost | 3 | On | 23 | 17 | 40 | 3 | 6 | 9 |
| Hort | | Vegetable cultivation | 1 | Off | 34 | 6 | 40 | 12 | 2 | 14 |
| Hort | | Production of Horticultural Crops | 5 | On | 20 | 10 | 30 | 1 | 1 | 2 |
| PP | | Mushroom Cultivation techniques | 5 | On | 31 | 9 | 40 | 9 | 0 | 9 |
| PP | | Mushroom cultivation techniques | 5 | On | 35 | 10 | 45 | 11 | 3 | 14 |
| Engg | | Use of Farm Implements in Summer Crop Production | 2 | On | 18 | 17 | 35 | 6 | 0 | 6 |
| Hort | | Training on Horticulture Crop Production | 5 | On | 30 | 10 | 40 | 6 | 10 | 16 |
| H.Sc. | EF | Nutri Garden | 3 | On | - | 30 | 30 | 0 | 0 | 0 |
| PP | PF | Mushroom Cultivation Techniques | 5 | On | 0 | 40 | 40 | 0 | 8 | 8 |
| H.Sc. | RY | Herbal Gulal Making | 5 | On | 17 | 13 | 30 | 3 | 0 | 3 |
| PP | PF | Disease management of vegetables | 2 | On | 21 | 29 | 50 | 9 | 9 | 18 |
| Engg | PF | Irrigation management in summer vegetable | 1 | Off | 23 | 8 | 31 | 6 | 2 | 8 |
| H.Sc. | RY | Training Program on Stitching and Tailoring | 4 | On | 9 | 11 | 20 | 2 | 0 | 2 |
| PP | PF | Insect and disease of mango and other vegetable crop. | 1 | Off | 20 | 30 | 50 | 0 | 0 | 0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Engg | PF | Water management in summer vegetable | 1 | Off | 23 | 8 | 31 | 6 | 2 | 8 |
| Agron | RY | Natural Farming | 5 | On | 9 | 13 | 22 | 4 | 7 | 11 |
| Engg | PF | Importance and benefit of summer ploughing | 1 | Off | 23 | 9 | 32 | 6 | 3 | 9 |
| PP | PF | Insect and pest management of mango | 1 | Off | 50 | 3 | 53 | 31 | 13 | 4 |
| PP | PF | Insect and disease management in vegetable crop | 1 | Off | 45 | 5 | 50 | 20 | 0 | 20 |
| PP | PF | Mushroom production techniques and problem diagnose in mushroom farm | 1 | Off | 2 | 23 | 25 | 0 | 0 | 0 |
| H.Sc. | PF | Value addition | 2 | Off | 12 | 27 | 39 | 7 | 24 | 31 |
| Agron | PF | SRI technique for Paddy Cultivation | 1 | Off | 23 | 7 | 30 | 12 | 0 | 12 |
| Hort | PF | Nursery raising technique for fruit and vegetables | 1 | On | 17 | 8 | 25 | 0 | 8 | 8 |
| Agron | PF | Nursery Raising & Natural Farming | 1 | On | - | 35 | 35 | 0 | 0 | 0 |
| Agron | EF | Natural Farming | 1 | Online | 21 | 9 | 30 | 6 | 0 | 6 |
| Engg | PF | Rain water conservation technique | 1 | Off | 19 | 13 | 32 | 3 | 5 | 8 |
| H.Sc. | RY | Stitching and embroidery | 5 | On | 0 | 33 | 33 | 0 | 12 | 12 |
| PP | RY | Mushroom cultivation Techniques | 5 | On | 35 | - | 35 | 18 | 0 | 18 |
| Agron | PF | Natural Farming | 5 | On | 35 | 8 | 43 | 11 | 0 | 11 |
| Extn | PF | Contingent Plan in Agriculture | 2 | On | 24 | - | 24 | 4 | 0 | 4 |
| Extn | PF | Sustainable agriculture for climate change as an alternative to paddy | 1 | On | 22 | 15 | 37 | 10 | 2 | 12 |
| PP | PF | Mushroom training | 5 | On | 3 | 17 | 20 | 0 | 0 | 0 |
| A.H. | PF | Goatry Farming | 3 | On | 9 | 16 | 25 | 5 | 0 | 5 |
| Agron | EF | Millet farming | 3 | On | - | 21 | 21 | 0 | 3 | 3 |
| Engg. | RY | Vegetable cultivation through Drip Irrigation System | 3 | On | 34 | 2 | 36 | 12 | 2 | 14 |
| PP | PF | Disease Management of Vegetable Cultivation | 3 | Off | - | 24 | 24 | 0 | 0 | 0 |
| Extn | RY | Vermicomposting | 3 | Off | 50 | 3 | 53 | 31 | 3 | 34 |
| Extn. | EF | Millet Processing for Business Plan | 2 | Off | 45 | 5 | 50 | 20 | 0 | 20 |
| Engg | PF | Use of Agricultural Implements in Rabi Crop | 3 | On | 2 | 23 | 25 | 0 | 0 | 0 |
| Agron | PF | Natural Farming | 2 | On | 12 | 27 | 39 | 7 | 24 | 31 |
| PP | RY | Mushroom training | 4 | On | 23 | 7 | 30 | 12 | 0 | 12 |
| H.Sc. | EF | Gender sensitization & role of women in | 2 | On | 17 | 8 | 25 | 0 | 8 | 8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | agriculture | | | | | | | | |
| Extn. | RY | RAWE students Village level training | 10 | On | - | 35 | 35 | 0 | 0 | 0 |
| PP | PF | Disease management in Rabi crop | 1 | Off | 21 | 9 | 30 | 6 | 0 | 6 |
| Extn | PF | Training on new aspects of Agriculture | 1 | Off | - | 39 | 39 | 0 | 19 | 19 |
| PP | PF | Insect and pest management in vegetables and different types of crops. | 1 | Off | 33 | - | 33 | 23 | 0 | 23 |
| H.Sc. | PF | Bamboo handicrafts training | 1 | Off | 35 | - | 35 | 18 | 0 | 18 |
| H.Sc. | PF | Millet Processing for Food & Nutrition Security | 1 | Off | 35 | 8 | 43 | 11 | 0 | 11 |
| Agron | PF | Zero Budget Farming | 1 | Off | 24 | - | 24 | 4 | 0 | 4 |
| PP | PF | Management of diseases in different types of vegetables | 1 | Off | 22 | 15 | 37 | 10 | 2 | 12 |
| | PF | Nutrition Gardening | 1 | Off | | | | | | |
| HSc | PF | Tomato Processing | 1 | On | 14 | 14 | 28 | 4 | 4 | 8 |
| Ext | PF | Soil sampling and soil testing | 8 | On | 1 | 25 | 26 | 0 | 3 | 3 |
| Ext | PF | Soil sampling and soil testing | 8 | On | 10 | 1 | 11 | 0 | 1 | 1 |
| Engg | PF | Production Technology of sesame | 1 | Off | 29 | 8 | 37 | 11 | 3 | 14 |
| HSc | EF | Kharif crops Post harvest management | 1 | Off | 12 | 12 | 24 | 12 | 2 | 14 |
| HSc | PF | Food and Nutrition Security by Nutrition gardening | 1 | Off | 5 | 17 | 22 | 2 | 2 | 4 |

**H) Vocational training programmes for Rural Youth**

Details of 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 | Mushroom Cultivation | Mushroom cultivation techniques | 5 | 61 | 24 | 85 | Production unit | 17 | 29 | 14 |
| Goat rearing | Goat Farming | Goat Farming | 1 | 15 | 17 | 32 | - | - | - | - |
| Tailoring and Stitching | Tailoring and Stitching | Tailoring and Stitching | 2 | 2 | 53 | 55 | Production Unit | 5 | 10 | - |

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

I) Sponsored Training Programmes

| Sl. | Title | Thematic area | Month | Duration (days) | Client PF/RY/EF | No. of courses | No. of Participants | | | | | | | | | | Sponsoring Agency |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Male | | | Female | | | Total | | | | |
| | | | | | | | Others | SC | ST | Others | SC | ST | Others | SC | ST | Total | |
| 01 | Mushroom Production | Mushroom Production | Jan to March 2022 | 5 | PF | 7 | 0 | 0 | 0 | 56 | 95 | 154 | 56 | 95 | 154 | 305 | DHO, Dhanbad |
| 02 | Vegetable Production | Production of Vegetable Crop | Jan to March 2022 | 5 | PF | 5 | 52 | 5 | 27 | 40 | 46 | 30 | 92 | 51 | 57 | 200 | DHO, Dhanbad |

| Area of training | No. of Courses | No. of Participants | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | General | | | SC/ST | | | Grand Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| **Crop production and management** | | | | | | | | | | |
| Increasing production and productivity of crops | | | | | | | | | | |
| Commercial production of vegetables | 5 | 52 | 40 | 92 | 32 | 76 | 108 | 84 | 116 | 200 |
| Production and value addition (Mushroom production) | 7 | 0 | 56 | 56 | 0 | 249 | 249 | 0 | 305 | 305 |
| Fruit Plants | | | | | | | | | | |
| Ornamental plants | | | | | | | | | | |
| Spices crops | | | | | | | | | | |
| Soil health and fertility management | | | | | | | | | | |
| Production of Inputs at site | | | | | | | | | | |
| Methods of protective cultivation | | | | | | | | | | |
| Other | | | | | | | | | | |
| Total | 12 | 52 | 96 | 148 | 32 | 325 | 357 | 84 | 421 | 505 |
| **Post harvest technology and value addition** | | | | | | | | | | |
| Processing and value addition | | | | | | | | | | |
| Other | | | | | | | | | | |
| Total | | | | | | | | | | |
| **Farm machinery** | | | | | | | | | | |
| Farm machinery, tools and implements | | | | | | | | | | |
| Other | | | | | | | | | | |
| Total | | | | | | | | | | |
| **Livestock and fisheries** | | | | | | | | | | |
| Livestock production and management | | | | | | | | | | |
| Animal Nutrition Management | | | | | | | | | | |
| Animal Disease Management | | | | | | | | | | |
| Fisheries Nutrition | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Fisheries Management | | | | | | | | | | |
| Other | | | | | | | | | | |
| Total | | | | | | | | | | |
| **Home Science** | | | | | | | | | | |
| Household nutritional security | | | | | | | | | | |
| Economic empowerment of women | | | | | | | | | | |
| Drudgery reduction of women | | | | | | | | | | |
| Other | | | | | | | | | | |
| Total | | | | | | | | | | |
| **Agricultural Extension** | | | | | | | | | | |
| Capacity Building and Group Dynamics | | | | | | | | | | |
| Other | | | | | | | | | | |
| **Total** | | | | | | | | | | |
| **Grant Total** | **12** | **52** | **96** | **148** | **32** | **325** | **357** | **84** | **421** | **505** |

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

| Nature of Extension Activity | No. of activities | Farmers | | | | Extension Officials | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | T | SC/ ST (% of total) | Male | Female | Total | Male | Female | Total |
| Field Day | 5 | 159 | 64 | 223 | 18 | 12 | 6 | 18 | 171 | 70 | 241 |
| KisanMela | 1 | 221 | 138 | 359 | 23 | 7 | 5 | 12 | 228 | 143 | 371 |
| KisanGhosthi | 9 | 329 | 156 | 485 | 16 | 16 | 5 | 21 | 345 | 161 | 506 |
| Exhibition | 2 | 147 | 71 | 218 | 9 | 2 | 3 | 5 | 149 | 74 | 223 |
| Film Show | 12 | 552 | 126 | 678 | 19 | - | - | - | 552 | 126 | 678 |
| Method Demonstrations | 13 | 241 | 82 | 323 | 12 | - | - | - | 241 | 82 | 323 |
| Farmers Seminar | | | | | | | | | | | |
| Workshop | - | - | - | - | - | - | - | - | - | - | - |
| Group meetings | 11 | 403 | 161 | 564 | 9 | 8 | - | 8 | 411 | 161 | 572 |
| Lectures delivered as resource persons | 68 | 426 | 145 | 571 | 11 | 8 | 3 | 11 | 434 | 148 | 582 |
| Advisory Services | 326 | 988 | 338 | 1228 | 19 | - | - | - | 988 | 338 | 1326 |
| Scientific visit to farmers field | 105 | 651 | 376 | 1027 | 14 | 18 | 2 | 20 | 669 | 378 | 1047 |
| Farmers visit to KVK | 545 | 1569 | 276 | 1845 | 11 | - | - | - | 1569 | 276 | 1845 |
| Diagnostic visits | 990 | 2790 | 852 | 3642 | 11 | 18 | 10 | 20 | 3808 | 854 | 3762 |
| Exposure visits | | | | | | | | | | | |
| Ex-trainees Sammelan | | | | | | | | | | | |
| Soil health Camp | | | | | | | | | | | |
| Animal Health Camp | | | | | | | | | | | |
| Agri mobile clinic | | | | | | | | | | | |
| Soil test campaigns | | | | | | | | | | | |
| Farm Science Club Conveners meet | | | | | | | | | | | |
| Self Help Group Conveners meetings | | | | | | | | | | | |
| MahilaMandals Conveners meetings | | | | | | | | | | | |
| Special Programmes (specify) | | | | | | | | | | | |
| Sankalp Se Siddhi | | | | | | | | | | | |
| Swatchta Hi Sewa | | | | | | | | | | | |
| Field Day | 5 | 159 | 64 | 223 | 18 | 12 | 6 | 18 | 171 | 70 | 241 |
| Others | | | | | | | | | | | |
| Total | **2092** | **8635** | **2849** | **11386** | **190** | **101** | **40** | **133** | **9736** | **2881** | **11717** |

B. Other Extension activities

| Nature of Extension Activity | No. of activities |
|---|---|
| Newspaper coverage | 35 |
| Radio talks | 0 |
| TV talks | 0 |
| Popular articles | 2 |
| Extension Literature | 14 |
| Electronic media | 6 |
| Animal health camp | 1 |
| Any other | 12 |

C. Celebration of important days in KVKs

| Celebration of Important Days | No. of activities | Farmers | | | | Extension Officials | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | M | F | Total | SC/ ST (% of total) | M | F | Total | M | F | Total |
| Republic day (26th Jan.) | 1 | 12 | 8 | 20 | 15 | 8 | 3 | 11 | 20 | 11 | 31 |
| International Women's Day (8th Mar.) | 4 | 13 | 46 | 59 | 12 | 3 | 1 | 4 | 16 | 50 | 66 |
| Ambedkar Jayanti (14th Apr.) | | | | | | | | | | | |
| International Yoga Day (21st Jun.) | 1 | 14 | 8 | 22 | 13 | 09 | 3 | 12 | 23 | 11 | 34 |
| Independence Day (15th Aug.) | 1 | 32 | 16 | 48 | 12 | 10 | 3 | 13 | 42 | 19 | 61 |
| Parthenium Awareness Week (16th to 22nd Aug.) | 8 | 156 | 41 | 197 | 11 | 14 | 6 | 20 | 170 | 47 | 217 |
| Hindi Diwas (14th Sep.) | 2 | 15 | 7 | 22 | 3 | 7 | 1 | 8 | 22 | 8 | 30 |
| Gandhi Jayanti (2nd Oct.) | 1 | 18 | 11 | 29 | 14 | 7 | 3 | 10 | 25 | 21 | 46 |
| Mahila Kisan Diwas (15th Oct.) | 1 | 2 | 35 | 37 | 5 | 1 | 2 | 3 | 3 | 37 | 40 |
| World Food Day (16th Oct.) | 1 | 25 | 19 | 44 | 6 | 6 | 2 | 8 | 31 | 21 | 52 |
| Vigilance Awareness Week (27th Oct. to 2nd Nov.) | 7 | 178 | 56 | 234 | 16 | 8 | 2 | 8 | 186 | 58 | 244 |
| National Unity Day (31st Oct.) | 1 | 15 | 1 | 16 | 0 | 9 | 1 | 10 | 24 | 2 | 26 |
| World Science Day (10th Nov.) | | | | | | | | | | | |
| National Education Day (11th Nov.) | 4 | 8 | 17 | 25 | 2 | 6 | 2 | 8 | 14 | 19 | 33 |
| National Constitution Day (26th Nov.) | 2 | 25 | 8 | 33 | 3 | 6 | 3 | 9 | 31 | 11 | 42 |
| World Soil Day (5th Dec.) | 1 | 38 | 0 | 38 | 5 | 6 | 2 | 8 | 43 | 8 | 51 |
| Kisan Diwas (23rd Dec.) | 1 | 44 | 1 | 45 | 6 | 8 | 6 | 14 | 52 | 7 | 59 |
| Total | 36 | 595 | 274 | 869 | | 108 | 40 | 146 | 702 | 330 | 1032 |

D. Interaction/Live telecast programme of Hon'ble PM/Hon'ble AM

| Sl. | Date of event | Name of Event/Programme | Interaction of Hon'ble PM/AM | Participants | | | |
|---|---|---|---|---|---|---|---|
| | | | | Farmers | Staffs | VIP/Others | Total |
| 01 | 01.01.2022 | PM Samman Nidhi Programme | Interaction with Hon'ble PM | 128 | 9 | 3 | 140 |
| 02 | 26.04.2022 | Kisan Bhagidari Prathimikta Hamari | Intraction with Hon'ble AM | 278 | 9 | 4 | 291 |
| 03 | 31.05.2022 | Garib Kalyan Sammelan | Interaction with Hon'ble PM | 772 | 9 | 6 | 787 |
| 04 | 16.07.2022 | 94th ICAR Establishment | Intraction with Hon'ble AM | 205 | 9 | 2 | 216 |
| 05 | 17.09.2022 | Poshan Abhiyan and Tree Plantation | Interaction with Hon'ble AM | 374 | 9 | 3 | 386 |
| 06 | 17.10.2022 | PM Kisan Samman | Interaction with | 337 | 9 | 4 | 350 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Sammelan | Hon'ble PM | | | | |

## 3.5 a. Production and supply of Technological products

***Village seed***

| Crop | Variety | Quantity of seed (q) | Value (Rs) | No. of farmers involved in village seed production | Number of farmers to whom seed provided | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | SC | ST | Other | Total |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Total | | | | | | | | |

***KVK farm***

| Crop | Variety | Quantity of seed (q) | Value (Rs) | Number of farmers to whom seed provided | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| Paddy | IR-64Drt | 24q | 105600 | | | | |
| Paddy | Rajendra Massoori | 27.5q | 121000 | | | | |
| Pigeon Pea | IPA-203 | 1.0q | 12800 | | | | |
| Wheat | DBW-187 | 4.5q | 20700 | | | | |
| Mustard | NRCHB-101 | 1.4q | 11200 | | | | |
| Linseed | Priyam | 1.44q | 6048 | | | | |
| | | | | | | | |
| Grand Total | | 59.85 q | 277348 | | | | |

## Production of planting materials by the KVKs

| Crop | Variety | No. of planting materials | Value (Rs) | Number of farmers to whom planting material provided | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| Cauliflower | Madhuri | 3000 | 6000 | | | | |
| Cabbage | Green Soccer | 2000 | 5000 | | | | |
| Tomato | Laxmi F1 | 2000 | 5000 | | | | |
| Brinjal | No 801 F1 | 2000 | 5000 | | | | |
| Chilli | | | | | | | |
| Onion | | | | | | | |
| Others | | | | | | | |
| **Fruits** | | | | | | | |
| Mango | Dushahri, Langra, Ambrapali, Malika | 1000 | 70000 | | | | |
| Guava | Allahabadi safeda, Lalit, L-49 | 2000 | 120000 | | | | |
| Lime | | | | | | | |
| Papaya | | | | | | | |
| Banana | | | | | | | |
| Others | | | | | | | |
| **Ornamental plants** | | | | | | | |
| **Ornamental plants** | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Medicinal and Aromatic | | | | | | | |
| Plantation | | | | | | | |
| Spices | | | | | | | |
| Turmeric | | | | | | | |
| Tuber | | | | | | | |
| Elephant yams | | | | | | | |
| Fodder crop saplings | | | | | | | |
| Forest Species | | | | | | | |
| Others, pl.specify | | | | | | | |
| Total | | 12000 | 211000 | | | | |

## Production of Bio-Products

| Name of product | Quantity Kg | Value (Rs.) | No. of Farmers benefitted | | | |
|---|---|---|---|---|---|---|
| | | | SC | ST | Other | Total |
| Bio-fertilizers | | | | | | |
| Bio-pesticide | | | | | | |
| Bio-fungicide | | | | | | |
| Bio-agents | | | | | | |
| Others, please specify. | | | | | | |
| Total | | | | | | |

**Production of livestock materials**

| Particulars of Live stock | Name of the breed | Number | Value (Rs.) | No. of Farmers benefitted | | | |
|---|---|---|---|---|---|---|---|
| | | | | SC | ST | Other | Total |
| Dairy animals | | | | | | | |
| Cows | | | | | | | |
| Buffaloes | | | | | | | |
| Calves | | | | | | | |
| Others (Pl. specify) | | | | | | | |
| Small ruminants | | | | | | | |
| Sheep | | | | | | | |
| Goat | | | | | | | |
| Other, please specify | | | | | | | |
| Poultry | | | | | | | |
| Broilers | | | | | | | |
| Layers | | | | | | | |
| Duals (broiler and layer) | | | | | | | |
| Japanese Quail | | | | | | | |
| Turkey | | | | | | | |
| Emu | | | | | | | |
| Ducks | | | | | | | |
| Others (Pl. specify) | | | | | | | |
| Piggery | | | | | | | |
| Piglet | | | | | | | |
| Hog | | | | | | | |
| Others (Pl. specify) | | | | | | | |

| Fisheries | | | | |
|---|---|---|---|---|
| Indian carp | | | | |
| Exotic carp | | | | |
| Mixed carp | | | | |
| Fish fingerlings | | | | |
| Spawn | | | | |
| Others (Pl. specify) | | | | |
| Grand Total | | | | |

**3.5. b. Seed Hub Programme -** ***"Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India"***

i) Name of Seed Hub Centre:

| | |
|---|---|
| Name of Nodal Officer : | |
| Address : | |
| e-mail : | |
| Phone No. :<br>Mobile : | |

ii) Quality Seed Production of Pulses

| Season | Crop | Variety | Production (q) | | | |
|---|---|---|---|---|---|---|
| | | | Target | Area sown (ha) | Production | Category of Seed (F/S, C/S) |
| Kharif 2021 | | | | | | |
| | | | | | | |
| Rabi 2021 | | | | | | |
| | | | | | | |
| Summer/Spring 2021 | | | | | | |

iii) Financial Progress

| Fund received (2016-17, 2017-18, 2019, 2020 and 2021) | Expenditure (Rs. in lakhs) | | Unspent balance (Rs. in lakhs) | Remarks |
|---|---|---|---|---|
| | Infrastructure | Revolving fund | | |
| 2016-17 | | | | |
| 2017-18 | | | | |
| 2018-19 | | | | |
| 2019 | | | | |
| 2020 | | | | |
| 2021 | | | | |
| 2022 | | | | |

iv) Infrastructure Development

| Item | Progress |
|---|---|
| Seed processing unit | |
| Seed storage structure | |

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

| Item | Title | Author's name | ISBN No./ISSN Copy | Circulation |
|---|---|---|---|---|
| Research paper | | | | |
| Seminar/conference/ symposia papers | | | | |
| Books | | | | |
| Bulletins | Ethnic Fermented Foods and Beverages of Bihar & Jharkhand: Science History and Culture | Usha Singh, Seema Singh & | | 500 |
| News letter | Versa Jal Sarakshan Evam Jharkhand Me Versa Aadharit Kheti Ki Unnat Taknik | Adarsh Kumar Srivastava, Rajeev Kumar, Lalit Kumar Das, and Navin Kumar | Technical bulletin | 500 |
| Popular Articles | Drip Sichai Pradali –Kisano Ke Liye Ek Vardhan | Rajeev Kumar, Lalit Kumar Das, Adarsh Kumar Srivastava, and Navin Kumar | Technical bulletin | 500 |
| Book Chapter | Tapak Sichai(Jal Ka Kushal Upyog) | Rajeev Kumar, Adarsh Kumar Srivastava, lalit Kumar Das and Navin Kumar | Technical bulletin | 500 |
| Extension Pamphlets/ literature | Milky Mushroom<br><br>Rain water harvesting & advanced method of irrigation.<br><br>SHG formation, regulation & its work.<br><br>Integrated pest management in veg<br><br>Grain storage at Household level<br><br>.<br>Tamater ke Parirakshit Utpad<br><br>Bhojan ko swadist santulit aur paushtik banana me upyogi hai hari pattedar sabji<br><br>Sabjion ka Parirakshan<br><br>Mahilaon ke Liye Paustik Khadya Padardh | Navin kumar, Adarsh Kumar Srivastava, Rajeev Kumar<br>Dr. Rajeev Kumar<br>.<br><br>Sri Lalit Kumar Das<br><br>Sri Navin Kumar<br><br>Dr.Rajeev Kumar<br><br>Dr. Seema Singh & Sri Lalit Kumar Das<br><br>Dr. Seema Singh & Sri Lalit Kumar Das<br><br>Dr. Seema Singh & Sri Lalit Kumar Das<br>Dr. Seema Singh<br><br>Dr. Seema Singh | | 500<br><br>1000<br><br>1000<br><br>1000<br><br>1000<br><br>1000<br><br>1000<br><br>1000<br><br>1000<br><br>1000 |

| | | | | |
|---|---|---|---|---|
| | Poshan Ki Awashyakta<br><br>Hari Pattedar Sabjion ka Paustik rup se Matawa | Dr. Seema Singh | | 1000 |
| | Annual Report 2022 | | | 50 |
| | Annual Action Plan -2023-24 | | | 50 |
| | Dhan dhanya dhanbad – an impact assessment of KVK, Dhanbad<br><br>SRI—A Film on SRI Technology by KVK, Dhanbad | KVK Dhanbad | | 100<br><br>100 |

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

(B) Details of HRD programmes undergone by KVK personnel:

| Sl. No. | Name of programme | Name of course | Name of KVK personnel and designation | Date and Duration | Organized by |
|---|---|---|---|---|---|
| 1. | Online Master Trainers Training | Natural Farming | Dr. Seema Singh, Scientist (H.Sc.) | 5-9 August, 2022 | MANAGE, Hyderabad |
| 2. | KVKs Trainers Training Programme for Scientists | Tasar Silk Production , Rearing & Marketing | Dr. Seema Singh, Scientist (H.Sc.) | 11-15, October | Central TasarResearch& Traing Institute, Central Silk Board, Ministry of Textile Govt Of India, Ranchi, Jharkhand |
| 3. | 21 Days FDP-2022 | Role Of Science & Technology in Sustainable Agriculture, Horticulture, Animal Husbandry and Allied Sectors : A Retrospective& Perspective Approach | Sh. Lalit Kumar Das, Scientist (Agril. Extn.) | 9-29, Nov, 2022 | ICAR-Indian Grassland and Fodder Research Institute,H.P. & NADCL, Baramulla, U.T. of J. K. |
| 4. | 21 Days FDP-2022 | Role Of Science & Technology in Sustainable Agriculture, Horticulture, Animal Husbandry and Allied Sectors : A Retrospective& Perspective Approach | Dr. Seema Singh, Scientist (H.Sc.) | 9-29, Nov, 2022 | ICAR-Indian Grassland and Fodder Research Institute,H.P. & NADCL, Baramulla, U.T. of J. K. |
| 5 | 21 Days FDP-2022 | Role Of Science & Technology in Sustainable | Dr. Rajeev Kumar, Scientist (Agril. Engg.) | 9-29, Nov, 2022 | ICAR-Indian Grassland and Fodder |

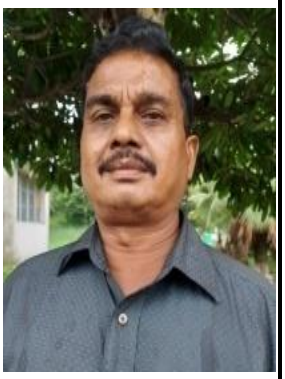
| | | | | | |
|---|---|---|---|---|---|
| | | Agriculture, Horticulture, Animal Husbandry and Allied Sectors : A Retrospective& Perspective Approach | | | Research Institute,H.P. & NADCL, Baramulla, U.T. of J. K. |
| 6 | 21 Days FDP-2022 | Role Of Science & Technology in Sustainable Agriculture, Horticulture, Animal Husbandry and Allied Sectors : A Retrospective& Perspective Approach | Dr. Navin Kumar, Scientist (Plant Protection) | 9-29, Nov, 2022 | ICAR-Indian Grassland and Fodder Research Institute,H.P. & NADCL, Baramulla, U.T. of J. K. |

1.7. Success stories/Case studies, if any (two- or three-pages write-up on 1-2 best case(s) with suitable action photographs)

**Fruit Cultivation Change the Life of Farmer by Increasing Annual Income after Intervention of KVK, Dhanbad**

***Description of farmers***

Name :**Sh. Lallan Sharma**



**Address: Kusum Vihar,**
**Post- Koyla Nagar, Dhanbad 826004**
**Email www. lallansharma.com**
**Mobile Number: Phone No 8969134165**
**Age: 50**
**Education: 12**
**Size of land holding (in ha): 5.2**

**Name and Description of the Farm/Enterprise:**

***Background.***

- For increasing annual income, farmer Lallan Sharma established an orchard at Rampur Village of Purvi Tundi Block in 5.2 ha. The land with undulating topography was too much suited for fruit cultivation.

***KVK Intervention.***

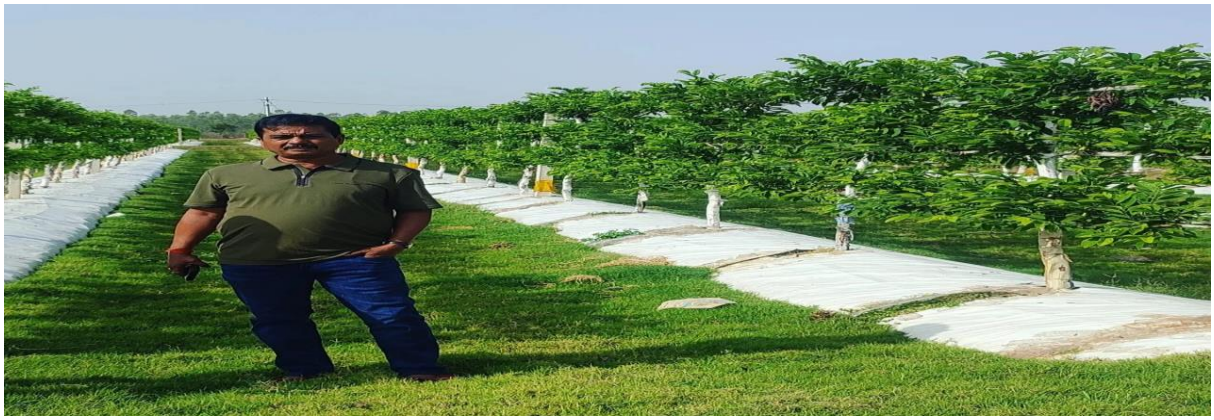
- Organize training for giving technical knowledge to the farmer for fruit production and give technical suggestion for preparation of layout and establish the orchard.
- Help in procuring planting material from KVK and other places
- Regular visit by the scientist of KVK, Dhanbad
- Lallan Sharma adopt the technical suggestion of KVK, Dhanbad, Planted Mango plant & Hybrid variety of Guava, Apple ber and Papaya which helped in increasing his annual income.

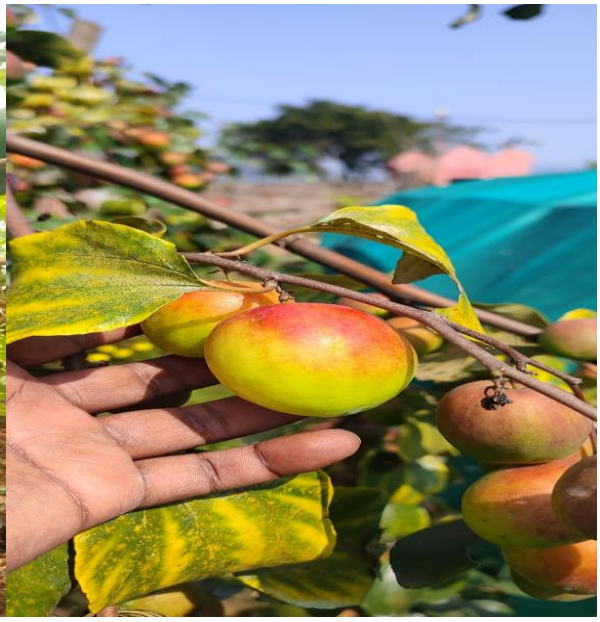
**Economic Impact:**

| Sl.No | Crop | Area (Hectare) | Yield in Quintal | | Gross Income (Rs.) | |
|---|---|---|---|---|---|---|
| | | | Before KVK Intervention | After KVK Intervention | Before KVK Intervention | After KVK Intervention |
| 01 | Guava | 4.0 | 242 | 297 | 605000 | 1336500 |
| 02 | Apple Ber | 0.4 | 18 | 29 | 45000 | 159500 |
| 03 | Mango | 0.4 | 15 | 32 | 27000 | 83200 |
| 04 | Papaya | 0.4 | 97 | 160 | 145000 | 432000 |
| **Total** | | **5.2** | **372** | **518** | **822000** | **2011200** |

**Social Impact:**

- Observing the impact of Fruit cultivation the farmers of Dhanbad district regularly visit the farm during exposure visit.
- The workers of nearby village got employment after establishment of Orchard.
- Now a days Sri Lallan Sharma helped the farmers of Harladih and Halatanrh village of Tundi block of Dhanbad District and Pandeydih village of Giridih District to established new orchard in around 20 ha.



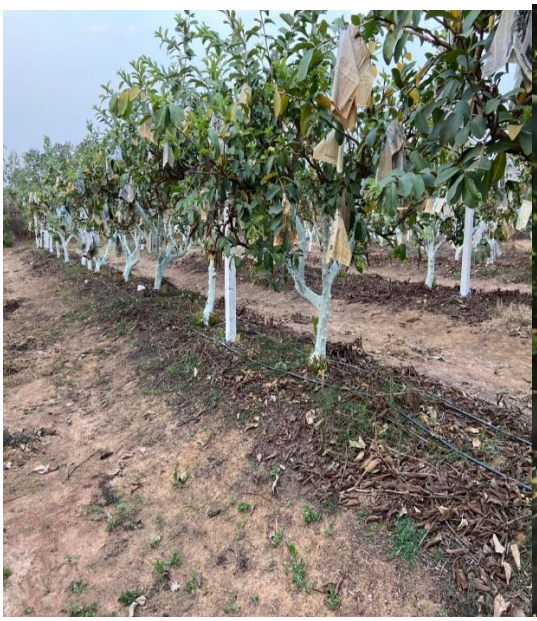


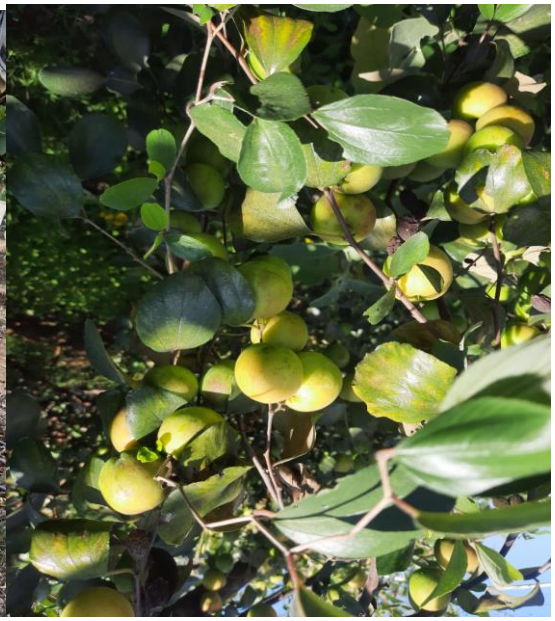
**Environmental Impact:**

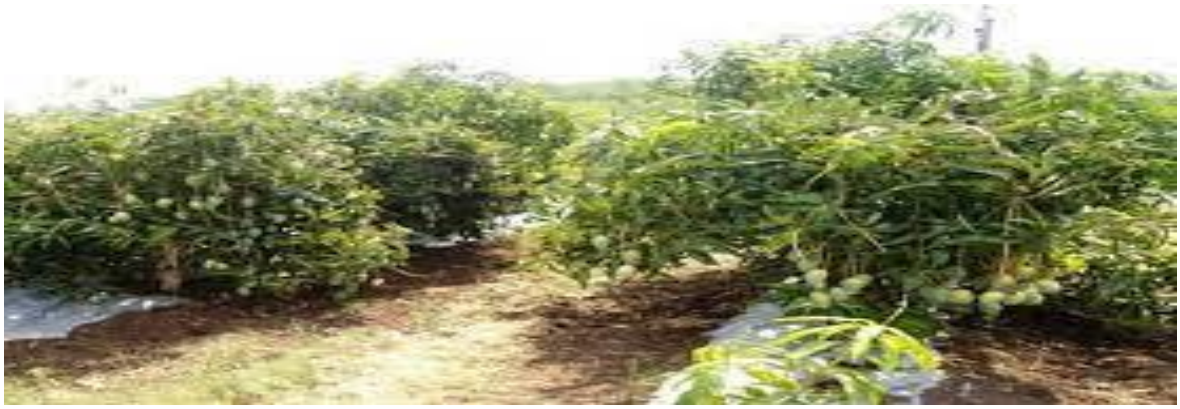
Orchard establishment is one of the best option for the environment like Dhanbad district where coal dust is one of the measure problem and it helps in reducing the coal dust from the environment. It also reduces the harmful GHG emission and atmospheric carbon sequestration. So the orchard establishment is very effective and great impact on environment.

**Horizontal/Vertical Impact**

Initially Sri Lalan Sharma established his orchard in 4.2 ha but after seeing its result the nearby farmers of the Rampur village started planting fruit trees like mango and guava in his field. The farmers of nearby villages like Harlatanrh and Harladih of Tundi block and Pandeydih village of Giridih also establish the orchard of guava, mango and apple ber in around 20 ha area. Many more farmers of the district contact KVK and Lallan Sharma for establish new orchard in their field.







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

| Sl. No. | Name/ Title of the technology | Name/ Details of the Innovator(s) | Brief details of the Innovative Technology |
|---|---|---|---|
| | | | |

3.9. a. 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)

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

b. Give details of organic farming practiced by the farmer

| Sl. No. | Crop / Enterprise | Area (ha)/ No. covered | Production | No. of farmers involved | Market available (Y/N) |
|---|---|---|---|---|---|
| | | | | | |

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

| Sl. No. | Brief details of the tool/ methodology followed | Purpose for which the tool was followed |
|---|---|---|
| | | |

3.11. a. Details of equipment available in Soil and Water Testing Laboratory

| Sl. No | Name of the Equipment | Qty. |
|---|---|---|
| 1 | Atomic Absorption Specto Photo meter | 1 |
| 2 | pH meter | 1 |
| 3 | Spectro photometer | 1 |
| 4 | Flamephotometer | 1 |
| 5 | Soil Testing minikit | 2 |

3.11.b. Details of samples analyzed so far:

| Number of soil samples analyzed | | |
|---|---|---|
| Through mini soil testing kit/labs | Through soil testing laboratory | Total |
| 178 | 0 | 178 |

3.11.c Detail of Soil, Water and Plant analysis at KVK

| Sl. | Analysis | No. of Samples analyzed | No. of Villages | No. of Farmers | Amount realized (Rs.) |
|---|---|---|---|---|---|
| 1. | Soil | 178 | 178 | 178 | 89000 |
| 2. | Water | | | | |
| 3. | Plant | | | | |
| 4. | Fertilizers | | | | |
| 5. | Manures | | | | |
| 6. | Food | | | | |
| 7. | Others (if any) | | | | |

3.11.d. Details on World Soil Day

| Sl. No. | Activity | No. of Participants | No. of VIPs | Name (s) of VIP(s) | Number of Soil Health Cards distributed | No. of farmers benefitted |
|---|---|---|---|---|---|---|
| 01 | Kisan Gosthi | 82 | 4 | DAO, DHO, DFO & District Co-ordinator, FPO | 52 | 52 |
| | | | | | | |

3.12. Activities of Rain Water Harvesting structure and micro irrigation system

| No of training programme | No. of demonstrations | No. of plant material produced | Visit by the farmers (No.) | Visit by the officials (No.) |
|---|---|---|---|---|
| 05 | 0 | - | 142 | - |

3.13. Technology week celebration

| Type of activities | No. of activities | Number of participants | Related crop/livestock technology |
|---|---|---|---|
| | | | |

3.14. RAWE/ FET programme - is KVK involved? (Y/N)

| No of student trained | No of days stayed |
|---|---|
| 23 | 10 Days |

| ARS trainees trained | No of days stayed |
|---|---|
| | |

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/Zila Parishad/Other Head of Organization/Foreigners)

| Date | Name of the person | Purpose of visit |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

## 4. 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) |
| System of rice intensification | 1762 | 31 | | |
| Seed treatment | 1816 | 28 | | |
| Seed production | 212 | 35 | | |

| | | | | |
|---|---|---|---|---|
| Mushroom production | 448 | 21 | | |
| Vermi-culture and composting | 329 | 24 | | |
| Soil Sampling | 178 | 44 | | |
| Safe use of Plant protection measure | 279 | 18 | | |
| Vegetable nursery raising | 403 | 23 | | |
| Stitching of garments | 242 | 14 | | |
| Wearing and knitting | 67 | 8 | | |
| Value addition in local fruits & vegetables | 421 | 9 | | |
| Fabrication of small agricultural tools | 165 | 13 | | |

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)

| Horizontal spread of technologies | |
|---|---|
| Technology | Horizontal spread |
| SRI of Paddy | 2754 ha. |
| Mushroom cultivation | 142 |

Give information in the same format as in case studies

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

| Sl. No. | Brief details of technology | Impact of the technology in subjective terms | Impact of the technology in objective terms |
|---|---|---|---|
| | | | |

4.4. Details of innovations recorded by the KVK

| | |
|---|---|
| Thematic area | |
| Name of the Innovation | |
| Details of Innovator | |
| Back ground of innovation | |
| Technology details | |
| Practical utility of innovation | |

4.5. Details of entrepreneurship development

| Entrepreneurship development | |
|---|---|
| Name of the enterprise | Mushroom Production |
| Name & complete address of the entrepreneur | Sarita Devi, W/o Late Neeraj Singh Krishna Nagar, Cooperative Colony Near Hanuman Mandir Saraidhela Dhanbad<br>Phone No. 9693706519 |
| Role of KVK with quantitative data support: | First Training from 15-19.02.17and second training on 28.9.2018-04.10.2018 started own unit just after first training and any problem he consult with scientist |
| Timeline of the entrepreneurship development | He started producing initially 1kg/day and sell at Rs 180/kg after second training his production of oyser |

| | |
|---|---|
| | mashroom rose 12kg/day |
| Technical Components of the Enterprise | The technical expertise and spown is purchased from KVK Dhanbad. He producing oyster mushroom and milky mushroom |
| Status of entrepreneur before and after the enterprise | Sarita Devi 80 bags of straw at one time, which cost about Rs.5000 and harvest about 200 kg /month raw mushroom and sell at a price of Rs 200/ kg and get Rs 950/day . the net income from mushroom Rs 27,800. He told that, he average earn more than Rs 25000/ month |
| Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. ( Economic viability of the enterprise): | At present he started in 2 rooms (1000sqt) area and involved four labour and stated catering the needs and demand of the local consumers. Since he told that he earn average Rs. 25000/month in mushroom and wanted to earn Rs 25000-30000/month he enlarges the production capacity from two room to six rooms. There is no problem of marketing he faces |
| Horizontal spread of enterprise | 8-10 person after seeing his unit also working towards mushroom production and taken training from the KVK Dhanbad |

4.6. Any other initiative taken by the KVK

## 5. LINKAGES

5.1. Functional linkage with different organizations

| Name of organization | Nature of linkage |
|---|---|
| DRDA, Dhanbad | Infrastructure & sponsored training programme. |
| District Agriculture Office, Dhanbad | Participation in training, FLD, Joint survey. |
| District Animal Husbandry Office, Dhanbad | Joint training programme & participation in meeting. |
| District Fisheries Office, Dhanbad | Joint training programme & participation in meeting. |
| District Horticulture Office, Dhanbad | Joint training programme & participation in meeting. |
| District Plant Protection Office, Dhanbad | Joint diagnostic survey & participation in meeting. |
| District Forest Office, Dhanbad | Participation in meeting. |
| Agricultural produce market committee (Bazaar Samiti), Dhanbad. | Joint training programme, participation in meeting & joint Krishak Gosthi. |
| Lead Bank Manager office, Dhanbad | Financial support from banks to trained persons for entrepreneur development. |
| Zonal Office, Bank of India Dhanbad | Financial support from banks to trained persons for entrepreneur development. |
| NABARD, Dhanbad. | Formation of SHG, Kisan Club & Training. |
| Tata Steel Rural Development Society, Dhanbad. | Joint training programme & participation in meeting. |

5.2. List of special programme undertaken during 2021 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

| Name of the programme/ scheme | Purpose of programme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|---|
| Strengthening soil testing laboratory | Establishment/ strengthening soil testing laboratory | 16.11. 2022 | DAO, Dhanbad | 375000 |

(b) Programme for other activities (training, FLD, OFT, Mela, Exhibition etc.)

| Name of the programme/ scheme | Purpose of programme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|---|---|---|---|---|
| | | | | |

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

| Sl. No. | Name of demo Unit | Year of estt. | Area(Sq.mt) | Details of production | | | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Variety/breed | Produce | Qty. | Cost of inputs | Gross income | |
| 1. | Progeny Orchard | 2007 | 1 ha | MANGO-Langra, Maldha, Dasheri, Amrapali, GUAVA-Allahabad Safeda Lucknow-49 | Seedling | 1000<br>2000 | - | 50950.<br>40000. | |
| | | | | MANGO-Langra, Maldha, Dasheri, Amrapali, | Mango Fruit | 150 Kg | | 3000. | |
| | | | | Guava | Fruit | 118 Kg | | 1185 | |
| | | | | Banana | Fruit | 5Kg | | 100 | |
| | | | | Bamboo | | 2PC | | 200 | |
| | | | | Habiscus Plant | | 2PC | | 60 | |
| 2. | Tissue culture | 2012-13 | - | Banana – Grand nine, Robusta, Martman | Plant | - | | | |
| 3 | Mushroom unit | 2012-13 | - | Oyster spawn | | 83Kg | | 10825 | |
| 4 | Value addition | 2007 | - | Training started | - | - | | | |
| 5 | Sewing & knitting | 2007 | - | Training started | - | | | | |
| 6 | Seed processing | 2010-11 | - | Paddy, | | 122.43 quintal | | 20813 | |
| 7 | Integrated | 2017- | | Duck egg sale | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Farming | 18 | | | | | | | |
| 8 | Soil Testing | 2007-08 | | Soil Test | | 80 sample | | 40000 | |
| 9 | Vermi compost | 2007-18 | | Vermi compost vermi | | 40 Kg | | 400 | |
| 10 | Fabrication Unit | 2007-08 | | Custom Hiring | | | | - | |
| 11 | Technology Park | 2007-08 | | Vegetables | | | | 860 | |
| | | Total | | | | | | **167383** | |

6.2. Performance of Instructional Farm (Crops)

| 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 | |
| Paddy | 25.06.2022 | Nov.2022 | 1.25 | IR-64D | F/s | 24 | 98000 | 105600 | |
| Paddy | 26.06.2022 | 25.11.2022 | 1.25 | Rajendra Massoori | F/S | 27.5 | 110000 | 121000 | |
| Pigeon Pea | 22.07.2021 | 14.03.2022 | | IPA-203 | C/S | 1.0 | 9800 | 12800 | |
| Mustard | 08.11.2021 | March 2022 | 1.0 | Pusa-26 | F/s | 1.4 | 7500 | 11200 | |
| Wheat | 14.11.2021 | 04.2022 | 0.5 | DBW-187 | F/S | 4.0 | 13125 | 20700 | |
| Linseed | 13.12.2021 | 23.5.2022 | 0.5 | Priyam | C/S | 1.44 | 5400 | 6048 | |

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

| Sl. No. | Name of the Product | Qty. (Kg) | Amount (Rs.) | | Remarks |
|---|---|---|---|---|---|
| | | | Cost of inputs | Gross income | |
| 1. | | | | | |
| | | | | | |

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 | |
| 1. | | | | | | | |
| 2. | | | | | | | |
| 3. | | | | | | | |

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) |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| Total : | | | |

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

| Months | Q I | QII | Q III | QIV | Q V | QVI |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## 7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Account Number |
|---|---|---|---|
| KVK, Dhanbad | SBI Hirapur | Hirapur Dhanbad | 10900477204 |
| KVK, Dhanbad | SBI Hirapur | Hirapur Dhanbad | 10900477191 |

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

| Item | Released by ICAR | | Expenditure | | Unspent balance as on - |
|---|---|---|---|---|---|
| | Kharif | Rabi | Kharif | Rabi | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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

| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1st April 2022 |
|---|---|---|---|---|---|
| | Kharif | Rabi | Kharif | Rabi | |
| | | | | | |
| | | | | | |

7.4. Utilization of KVK funds during the year 2022 (Not audited)

| Sl. No. | Particulars | Sanctioned | Released | Expenditure |
|---|---|---|---|---|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | | | |
| 2 | Traveling allowances | | | |
| 3 | Contingencies | | | |
| *A* | | | | |
| *B* | | | | |
| *C* | | | | |

| | | | | |
|---|---|---|---|---|
| *D* | | | | |
| *E* | | | | |
| *F* | | | | |
| *G* | | | | |
| *H* | | | | |
| *I* | | | | |
| *J* | Swachhta Expenditure | | | |
| TOTAL (A) | | | | |
| B. Non-Recurring Contingencies | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| TOTAL (B) | | | | |
| C. REVOLVING FUND | | | | |
| GRAND TOTAL (A+B+C) | | | | |

7.5. Status of **Revolving fund** (Rs. in lakh) for last three years

| Year | Opening balance as on 1st April | Income during the year | Expenditure during the year | Net balance in hand as on 1st April of each year (Kind + cash) |
|---|---|---|---|---|
| 2019 | 565921 | 1394747 | 624121 | 1336547 + Kind |
| 2020 | 1336547 | 450884 | 969975 | 817456+ Kind |
| 2021 | 817456 | 553658 | 775331 | 595783 + Kind |
| 2022 | 595783 | 480991 | 829877 | 246897 + Kind |

7.6. (i) Number of SHGs formed by KVKs
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

| Name of activity | Number of activities | Season | With line department | With ATMA | With both |
|---|---|---|---|---|---|
| Online Training Of Gram Pradhan/Mukhiya | 02 | Kharif 4-5, July, 2022 | ATMA, Dhanbad | ATMA, Dhanbad | |
| Seminar for Progressive Farmers on Horticulture | 01 | 20, July, 2022 | District Horticulture Office | ATMA, Dhanbad | With Both |
| Training cum Workshop | 02 | 18-20, Oct, 2022 | DSWO & ACIC(ISM) Foundation, Dhabad | | with Both |

8. Other information

8.1. Prevalent diseases in Crops

| Name of the disease | Crop | Date of outbreak | Area affected (in ha) | % Commodity loss | Preventive measures taken for area (in ha) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

8.2. Prevalent diseases in Livestock/Fishery

| Name of the disease | Species affected | Date of outbreak | Number of death/ Morbidity rate (%) | Number of animals vaccinated | Preventive measures taken in pond (in ha) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

9.1. Nehru Yuva Kendra (NYK) Training

| Title of the training programme | Period | | No. of the participant | | Amount of Fund Received (Rs) |
|---|---|---|---|---|---|
| | From | To | Male | Female | |
| | | | | | |
| | | | | | |

9.2. PPV & FR Sensitization training Programme

| Date of vaccination programme | Resource Person | No. of participants | Registration (crop wise) | |
|---|---|---|---|---|
| | | | Name of crop | No. of registration |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

9.3. ***mKisan*** Portal (National Farmers' Portal/ SMS Portal)

| Type of message | No. of messages | No. of farmers covered |
|---|---|---|
| Crop | | |
| Livestock | | |
| Fishery | | |
| Weather | | |
| Marketing | | |
| Awareness | | |
| Training information | | |
| Other | | |
| **Total** | | |

9.4. *KVK* Portal and Mobile App

| Sl. No. | Particulars | Description |
|---|---|---|
| 1. | No. of visitors visited the portal | |
| 2. | No. of farmers registered in the portal | |
| 3. | Mobile Apps developed by KVK | |
| 4. | Name of the App | |
| 5. | Language of the App | |
| 6. | Meant for crop/ livestock/ fishery/ others | |
| 7. | No. of times downloaded | |

9.5 Kisan Mobile Advisory Services (KMAS)

| Sl. No. | Discipline | No. of Advisories | No. of Messages (text+ videos) | Total messages | No. of Farmers |
|---|---|---|---|---|---|
| 1. | Crop | | | | |
| 2. | Livestock | | | | |
| 3. | Weather | | | | |
| 4. | Marketing | | | | |
| 5. | Awareness | | | | |
| 6. | Enterprises | | | | |
| 7. | Others | | | | |
| 8. | Total | | | | |

9.6. a. Observation of Swachha Bharat Programme/Pakhwara

| Date/ Duration of Observation | Activities undertaken | No. of Participants | | | |
|---|---|---|---|---|---|
| | | Staffs | Farmers | Others | Total |
| 16-31.12.2022 | Basic maintenance, Cleaning and beautification of surrounding areas, Vermicomposting/Composting of biodegradable waste management & other activities on generate of wealth for waste, Used water for agriculture/ horticulture application, Swachhta Awareness at local level, Swachhta Workshops, Swachhta Workshops, Involving the farmers, farm women and village youth in the adopted villages (no of adopted village), | 9 | 312 | 16 | 337 |
| | | | | | |

b. Details of Swachhta activities with expenditure

| **Activities** | **Number** | **Expenditure (in Rs.)** |
|---|---|---|
| 1. Digitization of office records/ e-office | 8 | |
| 2. Basic maintenance | 10 | |
| 3. Sanitation and SBM | 11 | |
| 4. Cleaning and beautification of surrounding areas | 14 | |
| 5. Vermicomposting/ Composting of biodegradable waste management & other activities on | 18 | |

| | | |
|---|---|---|
| generate of wealth for waste | | |
| 6. Used water for agriculture/ horticulture application | 5 | |
| 7. Swachhta Awareness at local level | 14 | |
| 8. Swachhta Workshops | 0 | |
| 9. Swachhta Pledge | 2 | |
| 10. Display and Banner | 6 | |
| 11. Foster healthy competition | 0 | |
| 12. Involvement of print and electronic media | 4 | |
| 13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village) | 32 | |
| 14.No. of Staff members involved in the activities | 11 | |
| 15.No of VIP/VVIPs involved in the activities | 0 | |
| 16. Any other specific activity (in details) | --- | |
| **Total** | **135** | |

9.7. Observation of National Science Day

| Date of Observation | Activities undertaken |
|---|---|
| | |

9.8. Programme with Seema Suraksha Bal/ BSF

| Title of Programme | Date | No. of participants |
|---|---|---|
| | | |

9.9. Agriculture Knowledge in rural school

| Name and address of school | Date of visit to school | Areas covered | Teaching aids used |
|---|---|---|---|
| | | | |
| | | | |

Give good quality 1-2 photograph(s)

9.10. Details of '*Pre-Rabi Campaign'* Programme

| Date of programme | No. of Union Ministers attended the programme | No. of Hon'ble MPs (Loksabha/ Rajyasabha) participated | No. of State Govt. Ministers | Participants (No.) | | | | | | | Coverage by Door Darshan (Yes/No) | Coverage by other channels (Number) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | MLAs Attended the programme | Chairman ZilaPanchayat | Distt. Collector/ DM | Bank Officials | Farmers | Govt. Officials, PRI members etc. | Total | | |
| | | | | | | | | | | | | |

9.11. Details of Swachhta Hi Sewa programme organized

| Sl. No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
|---|---|---|---|---|---|
| 1 | Toilet pit – digging exercise and other toilet construction activities | 2 | 28 | 0 | - |
| 2 | Organize cleaning of streets, drains and back alleys through awareness drives | 1 | 21 | 0 | - |
| 3 | Organize waste collection drives in household and common or shared spaces | 2 | 28 | | |
| 4 | Conduct door –to-door meeting to drive behavior change with respect to sanitation behaviors | 1 | 19 | - | - |
| 5 | Organize awareness campaigns around better sanitation practices like using a toilet, hand washing, health and hygiene awareness etc. | 2 | 32 | - | - |
| 6 | Perform Swachhata related Nukkad Nataks/ street plays, folk song and dance performances | 1 | 21 | | |
| 7 | Conduct Village or School – level rallies to generate awareness about sanitation | 1 | 32 | | |
| 8 | Make wall Paintings in public places on the theme of Swachhata | 1 | 12 | | |
| 9 | Volunteer for segregation of solid waste into non-biodegradable and biodegradable waste | 0 | 0 | | |
| 10 | Mobilize community to build compost pits, Where organic matter decomposes to form manure | 2 | 23 | | |

9.12. Details of Mahila Kisan Divas programme organized

| Sl. No. | Activity | No. of villages Involved | No. of Participants | No. of VIPs | Name (s) of VIP(s) |
|---|---|---|---|---|---|
| 1 | Group discussion, debate, completion, prize distribution | 7 | 74 | - | - |

9.13. No. of Progressive/ Innovative/ Lead farmer identified (category wise)

| Sl. No. | Name of Farmer | Address of the farmer with contact no. | Innovation/ Leading in enterprise |
|---|---|---|---|
| | | | |

9.14. Revenue generation

| Sl.No. | Name of Head | Income (Rs.) | Sponsoring agency |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

9.15. Resource Generation:

| Sl.No. | Name of the programme | Purpose of the programme | Sources of fund | Amount (Rs. lakhs) | Infrastructure created |
|---|---|---|---|---|---|
| 1 | Establishment /Strengthening Soil Testing lab | Strengthening Soil Testing lab | DAO, Dhanbad | 3,75,000 | Minilab, Refill chemical, Distilled water Machine, Oven and drier, Almirah for soil chemical store, Electricity Installation |

9.16. Performance of Automatic Weather Station in KVK

| Date of establishment | Source of funding i.e. IMD/ICAR/Others (pl. specify) | Present status of functioning |
|---|---|---|
| | | |
| | | |

9.17. Contingent crop planning

| Name of the state | Name of district/KVK | Thematic area | Number of programmes organized | Number of Farmers contacted | A brief about contingent plan executed by the KVK |
|---|---|---|---|---|---|
| Jharkhand | KVK, Dhanbad | Crop Production | 2 | 121 | 1.Paddy cultivation through SRI method or plastic drum seeder.<br>2. Bunding for water retention.<br>3. Cultivation of Pulses & Oilseeds<br>4. Ridge Furrow method should be followed for proper germination<br>5. Conservation of soil moisture.<br>6 Mechanical weeding |

10. Report on Cereal Systems Initiative for South Asia (CSISA)

a) Year:
b) Introduction / General Information:

| Experiment | Title | Objective | Treatment details | Date of sowing | Replication | Result with photographs |
|---|---|---|---|---|---|---|
| Experiment 1 | | | | | | |
| Experiment 2 | | | | | | |
| Experiment 3 | | | | | | |
| … | | | | | | |
| .. | | | | | | |
| Others (If any) | | | | | | |

11. Details of TSP

a. Achievements of physical output under TSP during 2021

| **Sl.** | **Activities** | **Physical Achievement** | |
|---|---|---|---|
| 1) | Trainings | No. of Trainings/Demos | No. of beneficiaries |
| a. | Farmer | | |
| b. | Women | | |
| c. | Rural Youths | | |
| d. | Extension Personnel | | |
| 2) | OFT | No. of OFTs | No. of beneficiaries |
| | | | |
| 3) | FLD | No. of FLDs | No. of beneficiaries |
| | | | |
| 4) | Mobile agro- advisory to farmers | No. of advisory | No. of beneficiaries |
| | | | |
| 5) | Other activities | | |
| a. | Participants in extension activities (No.) | | |
| b. | Production of seed (q) | | |
| c. | Production of Planting material (No. in lakh) | | |
| d. | Production of Livestock strains (No. in lakh) | | |
| e. | Production of fingerlings (No. in lakh) | | |
| f. | Testing of Soil, water, plant, manures samples (Nos.) | | |
| g. | Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.) | | |
| h. | No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.) | | |

b. Fund received under TSP in 2022-23 (Rs. In lakh):

c. Achievements of physical outcome under TSP during 2022

| Sl. No. | Description | Unit | Achievements |
|---|---|---|---|
| 1 | Change in family income | % | |
| 2 | Change in family consumption level | % | |
| 3 | Change in availability of agricultural implements/ tools etc. | No. per household | |

d. Location and Beneficiary Details during 2022

| District | Sub-district | No. of Village covered | Name of village(s) covered | ST population benefitted (No.) | | |
|---|---|---|---|---|---|---|
| | | | | M | F | T |
| | | | | | | |

12. Details of SCSP

| **Sl.** | **Activities** | **Physical Achievement** | |
|---|---|---|---|
| 1) | Trainings | No. of Trainings/Demos | No. of beneficiaries |
| a. | Farmer | 6 | 232 |
| b. | Women | | |
| c. | Rural Youths | | |
| d. | Extension Personnel | | |
| 2) | OFT | No. of OFTs | No. of beneficiaries |
| | | | |
| 3) | FLD | No. of FLDs | No. of beneficiaries |
| | | 37 | 37 |
| 4) | Mobile agro- advisory to farmers | No. of advisory | No. of beneficiaries |
| | | | |
| 5) | Other activities | | |
| a. | Participants in extension activities (No.) | | |
| b. | Production of seed (q) | | |
| c. | Production of Planting material (No. in lakh) | | |
| d. | Production of Livestock strains (No. in lakh) | | |
| e. | Production of fingerlings (No. in lakh) | | |
| f. | Testing of Soil, water, plant, manures samples (Nos.) | | |

13. Progress report of NICRA KVK (Technology Demonstration component) during the period (Applicable for KVKs identified under NICRA)

Natural Resource Management

| Name of intervention undertaken | Numbers under taken | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SC | | ST | | Other | | Total | | | |
| | | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | | |

Crop Management / Production

| Name of intervention undertaken | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Other | | Total | | | |
| | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | |

Livestock and fisheries

| Name of intervention undertaken | Number of animals covered | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | SC | | ST | | Other | | Total | | | |
| | | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | | |

Institutional interventions

| Name of intervention undertaken | No of units | Area (ha) | No of farmers covered / benefitted | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SC | | ST | | Other | | Total | | | |
| | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | |

Capacity building

| Thematic area | No of Courses | No of beneficiaries | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Other | | Total | | |
| | | M | F | M | F | M | F | M | F | T |
| | | | | | | | | | | |

Extension activities

| Thematic area | No of activities | No of beneficiaries | | | |
|---|---|---|---|---|---|
| | | SC | ST | Other | Total |

| | | M | F | M | F | M | F | M | F | T |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

Detailed report should be provided in the circulated Performa

14. a) Awards/Recognition received by the KVK in year 2022

| Sl. No. | Name of the Award | Conferring Authority | Amount | Purpose |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

b) Award received by Farmers in year 2022

| Sl. | Name of the Award | Name of the Farmer | Address | Contact No. | Aadhar No. | Amount | Purpose | Conferring Authority |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |

15. Any significant achievement of the KVK with facts and figures as well as quality photograph

16. Number of commodity based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

| Sl. No. | Name of the organization/ Society | Trust Deed No.& date | Date of Trust Registration Address | Proposed Activity | Commodity Identified | No. of Members | Financial position (Rupees in lakh) | Success indicator |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

17. Integrated Farming System (IFS)

A) Details of KVK Demo. Unit

| Sl. No. | Module details (Component-wise) | Area under IFS (ha) | Production (Commodity-wise) | Cost of production in Rs. (Component-wise) | Value realized in Rs. (Commodity-wise) | No. of farmer adopted practicing IFS | % Change in adoption during the year |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

B) Activities under IFS

| Sl. No. | Component Name | No. of KVKs under the Component | No. of Components established | Area (ha) | No. of Activities | | No. of farmers benefited | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Demo | Training | Demo | Training |
| 1. | | | | | | | | |
| 2. | | | | | | | | |
| 3. | | | | | | | | |

18. Technologies for Doubling Farmers' Income

| Sl. No. | Name of the Technology | Brief Details of Technology (3- 5 bullet points) | Net Return to the farmer (Rs.) per ha per year due to adoption of the technology | No. of farmers adopted the technology in the district | One high resolution 'Photo' in 'jpg' format for each technology |
|---|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |

19. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

| Phase | Database prepared/ covered for | | KVK level Committee | | Various activity conducted for farmers |
|---|---|---|---|---|---|
| | Total no. of villages | Total no. of farmers | Date of formation | Name of members | |
| I | | | | | |
| II | | | | | |
| Total | | | | | |

20. Information on Visit of Ministers to KVKs, if any

| Date of Visit | Name of Hon'ble Minister | Name of Ministry | Salient points in his/ her observation (2-3 bulleted points) |
|---|---|---|---|
| | | | |

21. a) Information on **ASCI** Skill Development Training Programme, undertaken during 2022

| Year | Name of the Job role | Name of the certified Trainer of KVK for the Job role | Date of start of training | Date of completion of training | No. of participants | Whether uploaded to SDMS Portal (Y/N) | Fund utilized for the training (Rs.) |
|---|---|---|---|---|---|---|---|
| 2022 | | | | | | | |
| | | | | | | | |
| | | | | | | | |

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2022

| Thematic area of training | Title of the training | Duration (in hrs.) | No. of participants | | | | | | | | | Fund utilized for the training (Rs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SC | | ST | | Other | | Total | | | |
| | | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | | |

22. Information of NARI Project (if applicable)

| Name of Nodal Officer | No. of OFT on specified aspects | Title(s) of OFT | No. of FLD on specified aspects | No. of capacity development programme on specified aspects | Total no. of farm women/ girls involved in the project | Details of Issues related to gender mainstreaming addressed through the project |
|---|---|---|---|---|---|---|
| | | | | | | |

Progress Information of NARI Project

a. Details of established Nutrition Garden in Nutri-Smart village

| Sl. | Name of Nutri-Smart Village | Type of Nutrition Garden | Number | Area (sqm) | No. of beneficiaries |
|---|---|---|---|---|---|
| 1. | | Backyard/Kitchen garden | | | |
| 2. | | Community level | | | |
| 3. | | Terrace Garden | | | |
| 4. | | Vertical Garden | | | |
| TOTAL | | | | | |

b. Details of Bio-fortified crops in Nutri-Smart village

| Name of Nutri-Smart Village | Season | Activity (OFT/FLD) | Category of crop (cereal/ pulses/oilseed/ fruits & veg./ others | Name of Crop | Variety | Area (ha) | No. of benefi-ciaries |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |

c. Value addition in Nutri-Smart village

| Name of Nutri Smart Village | Name of Crop/ veg./ fruits/ other | Name of Value added product | Activity (OFT/FLD) | No. of farmers/ beneficiaries |
|---|---|---|---|---|
| | | | | |
| | | | | |

d. Training programmes in Nutri-Smart village

| Name of Nutri Smart Village | Area of Training | No of courses | No. of beneficiaries |
|---|---|---|---|
| | | | |
| | | | |

e. Extension activities under NARI Project

| Name of Nutri-Smart Village | Title of Activity | No. of activities | No. of beneficiaries |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

23. Activities under KSHAMTA

| Number of Adopted Villages | No. of Activities | | No. of farmers benefited | |
|---|---|---|---|---|
| | Demo | Training | Demo | Training |
| | | | | |
| | | | | |

24. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable

***Krishi Kalyan Abhiyan- I/II***

**A. Training**

| ***Name of programme*** | ***No. of programmes*** | ***No. of farmers benefitted*** | | | | | | | | | ***No. of officials attended the programme*** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ***SC*** | | ***ST*** | | ***Others*** | | ***Total*** | | | |
| | | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***M*** | ***F*** | ***T*** | |
| **KKA-I** | | | | | | | | | | | |
| **KKA-II** | | | | | | | | | | | |

**B. Distribution of seed/ planting materials/ input/ others**

| Name of programme | No. of Programme | Total quantity distributed | | | | No. of farmers benefited | | | | | | | | | No. of other officials (except KVK) attended the programme |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Seed (q) | Planting material (lakh) | Input (kg) | Other (kg/ No.) | SC | | ST | | Others | | Total | | | |
| | | | | | | M | F | M | F | M | F | M | F | T | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KKA-I | | | | | | | | | | | | | | | |
| KKA-II | | | | | | | | | | | | | | | |

**C. Livestock and Fishery related activities**

| Name of programme | No. of Programme | Activities performed | | | | No. of farmers benefited | | | | | | | | | No. of other officials (except KVK) attended the programme |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | No. of animals vaccinated | No. of animals dewormed | Feed/ nutrient supplements provided (kg) | Any other (Distribution of animals/ birds/ fingerlings) [No.] | SC | | ST | | Others | | Total | | | |
| | | | | | | M | F | M | F | M | F | M | F | T | |
| KKA-I | | | | | | | | | | | | | | | |
| KKA-II | | | | | | | | | | | | | | | |

**D. Other activities**

| Name of programme | Activities | No. of farmers benefited | | | | | | | | | No. of other officials (except KVK) attended the programme |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Others | | Total | | | |
| | | M | F | M | F | M | F | M | F | T | |
| KKA-I | Soil Health Card Distributed | | | | | | | | | | |
| | NADEP Pit established | | | | | | | | | | |
| | Farm implements distributed | | | | | | | | | | |
| | Others, if any | | | | | | | | | | |
| KKA-II | Soil Health Card Distributed | | | | | | | | | | |
| | NADEP Pit established | | | | | | | | | | |
| | Farm implements distributed | | | | | | | | | | |
| | Others, if any | | | | | | | | | | |

***Krishi Kalyan Abhiyan- III***

| No. of villages covered | No. of animal inseminated | No. of farmers benefitted | | | | | | | | | Any other, if any (pl. specify) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SC | | ST | | Others | | Total | | | |
| | | M | F | M | F | M | F | M | F | T | |
| | | | | | | | | | | | |

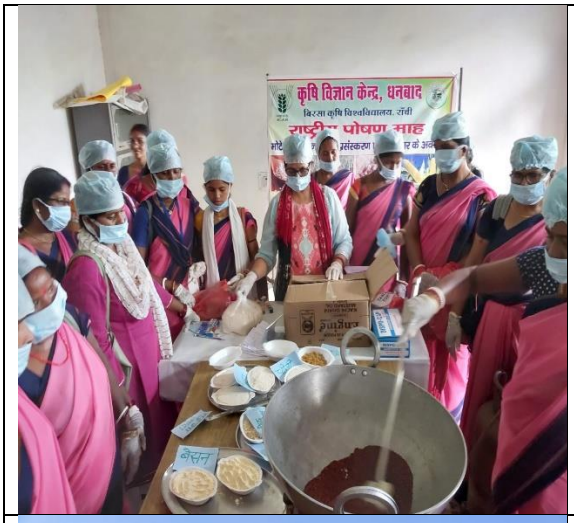
25. ARYA

| **KVK** | **No. of entrepreneurial units established** | **No. of Training programs organized** | **No. of rural youth trained** | | **No. of youth established units** | |
|---|---|---|---|---|---|---|
| | | | **Male** | **Female** | **Male** | **Female** |
| | | | | | | |
| | | | | | | |

26. Any other programme organized by KVK, not covered above

| Sl. No. | Name of the programme | Date of the programme | Venue | Purpose | No. of participants |
|---|---|---|---|---|---|
| | | | | | |

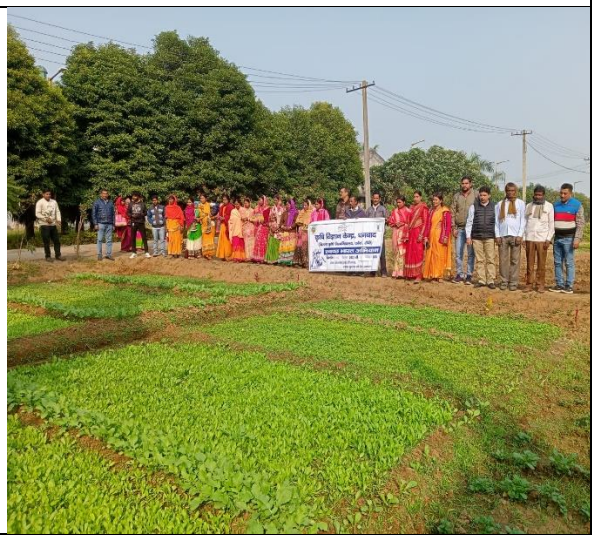
Good quality action photographs of overall achievements of KVK during the year


कृषि विज्ञान केन्द्र, धनबाद
बिरसा कृषि विश्वविद्यालय, राँची


कृषि विज्ञान केन्द्र, धनबाद
(बिरसा कृषि विश्वविद्यालय, काँके, राँची)
स्वरोजगार हेतु सिलाई-कढ़ाई प्रशिक्षण
ग्रामीण युवा-युवती


प्रशासनिक भवन
कृषि विज्ञान केन्द्र
Livelihood Training
of
Self Help Groups (SHGs)
Exposure Visit


प्रशासनिक भवन
कृषि विज्ञान केन्द्र



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