



ANNUAL REPORT (APRIL, 2008 - MARCH, 2009)

KRISHI VIGYAN KENDRA SUNDARGARH, KIREI - 770073

ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY BHUBANESWAR - 751003

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PROFORMA FOR ANNUAL REPORT (01-04-2008 to 31-03-2009)

1. GENERAL INFORMATION ABOUT THE KVK

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

| KVK | Postal Address with Pin code | Telephone | | ne | E mail |
|-----|---|-----------|--------|--------|----------------------|
| | | STD | Office | FAX | |
| U | At/Po-Kirei, DistSundargarh , Pin-770073 | 06622 | 211793 | 211793 | pckvksng@yahoo.co.in |

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

| Host Institute | Host Institute Postal Address with | | Telephor | ne | E mail |
|----------------------|------------------------------------|------|----------|---------|----------------------|
| name | Pin code | STD | Office | FAX | |
| Orissa University of | Orissa University of | 0674 | 2392677 | 2397780 | ouatmain@hotmail.com |
| Agriculture & | Agriculture & | | | | |
| Technology (OUAT) | Technology (OUAT), | | | | |
| | Bhubaneswar-751003, | | | | |
| | Orissa | | | | |

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

| Name | | Telephone / | Contact |
|----------------------|------------|-------------|---------------------------|
| | Residence | Mobile | Email |
| Sri Chintamani Panda | 9438036405 | 9437185175 | Kunia_panda2001@yahoo.com |

1.4. Year of sanction: 27th March 2004

1.5. Staff Position (as on 31st March,2009)

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline with highest degree | Pay Scale with present basic | Date of joining | Permanent /Temporary Permanent | Category (SC/ST/ OBC/ Others) General |
|------------|------------------------------|-------------------------------|--------------------------|---|--|--------------------|--------------------------------------|---|
| 1 | Programme Coordinator | Sri Chintamani Panda | Programme Coordinator | Horticulture | 12000- 420- 18300 (14940) | 07/02/2008 | Permanent | General |
| 2 | Subject Matter Specialist | Sri Ashis Kumar Mohanty | SMS | Horticulture | 8000- 275- 13500 (8825) | 14/01/2005 | Contractual | General |
| 3 | Subject Matter Specialist | Sri Jayanta Kumar Pati | SMS | Agril. Extension | 8000- 275- 13500 (8825) | 21/02/2005 | Contractual | General |
| 4 | Subject Matter Specialist | Vacant | - | - | - | - | - | - |
| 5 | Subject Matter Specialist | Vacant | - | - | - | - | - | - |
| 6 | Subject Matter Specialist | Vacant | - | - | - | - | - | - |

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline with highest degree | Pay Scale with present basic | Date of joining | Permanent /Temporary | Category (SC/ST/ OBC/ Others) |
|------------|--------------------------------|-------------------------------|------------------------|---|--|--------------------|-------------------------|--|
| 7 | Subject Matter Specialist | Vacant | - | - | - | - | - | - |
| 8 | Programme Assistant | Vacant | - | - | - | - | - | - |
| 9 | Computer Programmer | Sri Prasant Kumar Sahoo | Prog. Asst. (Comp.) | Computer Application | 5500- 175- 9000 (6025) | 05/07/2008 | Contractual | OBC |
| 10 | Farm Manager | Sri T.R. Sahoo | Farm Manager | Horticulture | 5500- 175- 9000 (6025) | 11/07/2005 | Contractual | OBC |
| 11 | Accountant / Superintendent | Vacant | - | - | - | - | - | - |
| 12 | Stenographer | Vacant | - | - | - | - | - | - |
| 13 | Driver | Sri Srikanta Sahu | - | - | 3050- 75- 3950- 80- 4590 (3125) | 28/07/2007 | Contractual | OBC |
| 14 | Driver | Sri B. Sa | - | - | (3050) (Cons.) | 19/07/2008 | Contractual | OBC |
| 15 | Supporting staff | Sri S.N. Pradhan | - | - | (2550) (Cons.) | 04/08/2008 | Contractual | OBC |
| 16 | Supporting staff | Sri A. Sahu | - | - | (2550) (Cons.) | 07/08/2008 | Contractual | OBC |

1.6. Total land with KVK (in ha) : 21.00

| S. No. | Item | Area (ha) |
|--------|---------------------------|-----------|
| 1 | Under Buildings | 0.12 |
| 2. | Under Demonstration Units | 162 sq.m |
| 3. | Under Crops | 4.80 |
| 4. | Orchard/Agro-forestry | 6.30 |
| 5. | Others | 9.62 |

| 1.7. | Infrastructural Development: |
|------|------------------------------|
| | A) Buildings |

| S. | Name of | Source | Stage | | | | | | |
|-----|------------------------------------|------------------|--------------------|--------------------------|---------------------|------------------------------------|--------------------------|------------------------|--|
| No. | building | of | | Complete | | | Incomplete | | |
| | | funding | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction | |
| 1. | Admin. Building | NARP- II | 1993 | | N.A. | N.A. | N.A. | N.A. | |
| 2. | Farmers Hostel | ICAR | - | - | - | Work assigned to C.P.W.D. | N.A. | N.A. | |
| 3. | Staff Quarters (6) | NARP- II | 1994 | | N.A. | N.A. | N.A. | N.A. | |
| 4. | Demo. Units (2) | ICAR | 20.09.2007 | | Account with DPP | - | - | - | |
| 5 | Fencing | ICAR | 20.09.2007 | 2425mt. | 700000 | - | - | - | |
| 6 | Rain Water harvesting system | ICAR | - | - | Account with DPP | Work under progress | | | |
| 7 | Threshing floor | ICAR | 184 | - | - | - | - | - | |
| 8 | Farm godown | Pre- existing | - | - | - | - | - | - | |

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|--------------------------|------------------|------------|----------------|----------------|
| Four Wheeler – Tata Sumo | 2005 | 5,50,000 | 48740 | Working |
| Two Wheeler- Hero Honda | 2005 | | 24826 | Working |

C) Equipments & AV aids

| Name of the equipment | Year of | Cost (Rs.) | Present |
|---|----------|------------|---------|
| | purchase | | status |
| Television | 2005 | 18870.00 | Working |
| Dish Antenna | 2005 | 2850.00 | Working |
| DVD Player | 2005 | 3975.00 | Working |
| Sony Handy Cam(Video Camera) | 2005 | 24990.00 | Working |
| Konica Camera | 2004 | 995.00 | Working |
| Over Head Projector with screen & Pointer | 2005 | 28150.00 | Working |
| Slide Projector | 2005 | 12750.00 | Working |
| Computer and Accessories | 2005 | 54800.00 | Working |
| Cooler | 2005 | 4980.00 | Working |
| Furniture (Godrej Table, Chairs, Almirah, Book case etc.) | 2005 | 175253.00 | Working |
| Laptop | 2007 | 48900.00 | Working |
| LCD Projector | 2007 | 44710.00 | Working |
| FAX | 2007 | 6032.00 | Working |
| UPS | 2005 | 1750.00 | Working |
| Copier cum Fax | 2008 | 75000.00 | Working |
| Digital Camera | 2008 | 9490.00 | Working |

| Sl. No. | Date | Number of Participants | Salient Recommendations | Action taken |
|------------|------------|---------------------------|---|-------------------------|
| 1. | 05.02.2009 | 40 | 1. Popularizing Kissan Call Centre for easy and cheap access of information by the farmers. | To be included in |
| | | | 2. Formation of Farmers Club in collaboration with NABARD. | Annual Action |
| | | | 3. Encourage farmers to enroll them under Distance Education Programme in OUAT. | Plan |
| | | | 4. Include "SRI" in KVK action plan. | |
| | | | 5. Explore the Potential of scented rice cultivation in Sundargarh. | |
| | | | 6. Recording of Feed back of farmers after each activities of KVK. | |
| | | | 7. Increase the area under dry land fruit crop. | |
| | | | 8. FLD on pointed gourd. | |
| | | | 9. Commercial floriculture in sub-urban areas. | |
| | | | 10. Develop goatery unit in KVK campus. | |
| | | | 11. Veterinary activities in adopted villages particularly Banaraja poultry and fodder cultivation. | |
| | | | 12. Mushroom Spawn unit in KVK campus. | |
| | | | 13. Include apiculture in KVK action plan | |
| | | | 14. Popularize Vermicompost in large scale. | |
| | | | Diversification of crops in up lands with Maize & Groundnut. | |
| | | | 16. Making farmer conscious of Organic Farming. | |
| | | | 17. Establishing cold storages from RKVY fund by the Horticulture department | |
| | | | 18. Develop farming system models. | |

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

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

2. DETAILS OF DISTRICT (2008-09)

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

| S. No | Farming system/enterprise |
|-------|-------------------------------|
| 1 | Agriculture+ Horticulture |
| 2 | Agriculture |
| 3 | Agriculture+ Animal husbandry |
| 4 | Animal husbandry |

| Sl. | Agro-climatic | Characteristics |
|-----|---------------|---|
| No | Zone | |
| 1. | North- | The North western plateau zone situated between $21^{\circ}.15$ and $22^{\circ}.32$ N |
| | Western- | latitude and 83 ⁰ .22 ['] and 85 ⁰ .22 ['] E longitude encompasses 17 blocks of |
| | Plateau Zone | Sundergarh district and Seven blocks of Deogarh district covering a |
| | | geographical area 12.90 thousand hectares which accounts for 8.45% of |
| | | the total geographical area of the state. Out ff the 12.90 lakh ha of |
| | | geographical area, 4.571 lakh ha is under cultivation with gross cropped |
| | | area of 5.81 lakh ha. The cropping intensity of the zone is 127.11%. |
| | | The climate is general is hot, moist ad sub-humid with a mean maximum |
| | | temperature of 42° C in summer and mean minimum temperature of 10° C |
| | | in winter. The average annual rainfall is 1239.78mm. The zone has |
| | | irrigation facilities from Dug wells, L.I. Points, Minor Irrigation projects, |
| | | major irrigation projects and other sources. The net area irrigated is |
| | | 1,29,424.47 ha (27%) and the rest 73% area is rainfed. Rice is the |
| | | principal crop of the zone occupying 76.12% of the net sown area. The |
| | | important groups of crops such as cereals, pulses, vegetables, oilseeds, |
| | | millets, sugarcane etc. accounts for 76.5, 22.5, 12.99, 14.3, 1.42 and |
| | | 0.15% respectively of the net cultivated area in the zone with average |
| | | productivity of 15.08, 6.74, 63.36, 8.22, 9.22 and 521.34q/ha respectively. |

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

| S. No | Agro ecological situation | Characteristics |
|-------|---------------------------|---|
| 1. | AES - I | Low Rainfall, Lateritic Soil |
| 2. | AES - II | Medium Rainfall, Red & Black Soil |
| 3. | AES - III | High Rainfall, Lateritic Soil |
| 4. | AES - IV | Medium Rainfall, Black & Brown, Forest Soil |
| 5. | AES - V | High Rainfall, Black & Brown Forest Soil |

2.3 Soil type/s

| 4. 3 | Son types | | |
|-------------|-------------------------------|--|------------|
| S. | Soil type | Characteristics | Area in ha |
| No | | | ('000 ha) |
| 1 | Red soils (alfisols) | Light texture, highly porous with low water | 359.9 |
| | | holding capacity; don't contain laterite mass, | |
| | | low in nutrient status with acidic soil reaction. | |
| 2 | Laterite and Latertic soils | Highly permable with moderate water holding | 173.5 |
| | (Ultisols and Oxisols) | capacity and are pale brown to brownish | |
| | | yellow in colour. | |
| 3 | Mixed Red and Yellow | Heterogeneous in texture, depth, colour | 386.6 |
| | Soils (ultisols) | depending upon the topography. | |
| 4 | Mixed red and black | Brown to balck in colour and are very deep. | 169.4 |
| | soils(Association of ultisols | The reaction of the soil varies between slightly | |
| | and vertisols) | alkaline to slightly acidic | |
| 5 | Brown forest soils | The thickness of the soil ranges from 9-15mt. | 226.4 |
| | (Humlets) | of the surface and the subsoil possesses | |
| | | lateritic material. Nutrient status of the soil is | |
| | | normal. | |

| S. No | Crop | Area (ha) | Production (Qtl) | Productivity (Qtl /ha) |
|-------|--------------|-----------|-------------------------|------------------------|
| 1. | Paddy | 214.5 | 308.5 | 14.38 |
| 2. | Wheat | 2.2 | 3.52 | 16 |
| 3. | Maize | 7.52 | 8.57 | 22.39 |
| 4. | Arhar | 4.61 | 3.13 | 6.78 |
| 5. | Mung | 10.05 | 3.09 | 7.63 |
| 6. | Biri | 15.09 | 5.73 | 3.8 |
| 7. | Cowpea | 4.83 | 3.26 | 6.75 |
| 8. | Gram | 2.75 | 1.83 | 6.64 |
| 9. | Field Pea | 2.12 | 1.18 | 5.58 |
| 10. | Kulthi | 15 | 7.5 | 5 |
| 11. | Groundnut | 3.24 | 3.715 | 27.21 |
| 12 | Mustard | 5.18 | 2.07 | 4 |
| 13. | Til | 17.83 | 5.3 | 6.93 |
| 14. | Niger | 1.62 | 0.41 | 2.52 |
| 15. | Sunflower | 5.3 | 0.229 | 16.1 |
| 16. | Mango | 6420 | 22305 | 3.4 |
| 17. | Guava | 796 | 5275 | 6.63 |
| 18. | Citrus | 1595 | 11440 | 7.2 |
| 19. | Litchi | 913 | 2442 | 2.67 |
| 20. | Sapeta | 26 | 112 | 4.31 |
| 21. | Banana | 1698 | 21354 | 12.57 |
| 22. | Papaya | 42 | 749 | 17.83 |
| 23. | Pineapple | 15 | 155 | 10.33 |
| 24. | Other fruits | 2610 | 23300 | 8.92 |
| 25. | Ber | 341 | 2089 | 6.12 |
| 26. | Brinjal | 3195 | 38995 | 12.2 |
| 27. | Tomato | 3205 | 43030 | 13.42 |
| 28. | Cabbage | 2495 | 74170 | 29.72 |
| 29. | Cauliflower | 3498 | 48603 | 13.89 |
| 30. | Pea | 297 | 2509 | 8.44 |
| 31. | Okra | 4921 | 48478 | 9.85 |
| 32. | S.Potato | 3283 | 26988 | 9.85 |
| 33. | Other Veg. | 5685 | 55488 | 4.74 |
| 34. | Potato | 485 | 5735 | 11.82 |
| 35. | Onion | 1404 | 10651 | 7.58 |
| 36. | Garlic | 483 | 1485 | 3.07 |
| 37. | Corriender | 391 | 189 | 0.48 |
| 38. | Chilli | 3200 | 2720 | 0.85 |
| 39. | Ginger | 543 | 1026 | 1.89 |
| 40. | Turmeric | 228 | 538 | 2.35 |
| 41. | Marigold | 21 | 0.63 | 5.06 |
| 42. | Rose | 2.2 | 6.5 | 2.95 |
| 43. | Gladioli | 1 | 98000 | 98000 |

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

(Courtesy: NIC, Sundargarh)

| Month | Rainfall (mm) | Temp | erature ⁰ C | Relative Humidity |
|--------------|---------------|---------|------------------------|--------------------------|
| | | Maximum | Minimum | (%) |
| June-08 | 204.28 | 38 | 28 | 92 |
| July-08 | 442.35 | 33 | 28 | 92 |
| August-08 | 476.49 | 33 | 26 | 92 |
| September-08 | 537.69 | 32 | 25 | 92 |
| October-08 | - | 32 | 29 | 92 |
| November-08 | - | 31 | 24 | 84 |
| December-08 | - | 30 | 24 | 90 |
| January-09 | - | 32 | 20 | 91 |
| February-09 | - | 37 | 21 | 73 |
| March-09 | - | 40 | 31 | 56 |

2.5. Weather data

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

| Category | Population | Production | Productivity |
|-------------------|------------|--------------------|--------------|
| Cattle | | | |
| Crossbred | 9441 | | |
| Indigenous | 152259 | 42.10('000mt) | |
| Buffalo | 55255 | | |
| Sheep | | | |
| Crossbred | 53210 | | |
| Indigenous | | | |
| Goats | 405369 | 3.32('000mt) | |
| Pigs | | | |
| Crossbred | 99752 | | |
| Indigenous | | | |
| Rabbits | 468 | | |
| Poultry | | | |
| Hens | 1136907 | 45.92 million eggs | |
| Desi | | | |
| Improved | | | |
| Ducks | 31015 | | |
| Turkey and others | | | |
| Fish | | 4967.46 mt | 65.23kg/ha. |
| Marine | | | |
| Inland | | | |
| Prawn | | | |
| Scampi | | | |
| Shrimp | | | |

(Courtesy: Livestock Census, DSO, Sundargarh)

| 1. | Details of Operational area / Villages (2008-09) | | | | | | | |
|------------|--|----------------------|------------------------|---|--|--|--|--|
| Sl. No. | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas | | |
| 1. | Sundargarh | Sadar | Bandubahal | Brinjal Chilli Tomato Cauliflower Onion Potato Paddy Wheat | Wilting Low yield Fruit & Shoot borer Distress sale in On-season | Lower yield of vegetables as compared to state average Indiscriminate use of chemical pesticides | | |
| 2. | Sundargarh | Tangarpali | Chakramal | Paddy Tomato Brinjal Pointed gourd Cauliflower wheat mustard | Indiscriminate use of pesticide. Low yield Wilting Inadequate knowledge on IPM | Lower yield of vegetables as compared to state average Introduction of Pheromone trap. Use of Bio-control agent & Bio- pesticides Use of Botanicals Trap Crop Need Based application of chemical pesticide at ETL level | | |
| 3. | Sundargarh | Badagaon | Phulbari | Tomato Brinjal Chilli Horsegram Groundnut Paddy | Low yield Wilting Inadequate knowledge on IPM Regular Vegetable Production on same land. Drudgery upon women | Scientific cultivation practice of Mushroom Enhancing cropping intensity in backyards with higher seed replacement ratio for optimum utilization of land & labour inputs Drudgery reduction | | |
| 4. | Sundargarh | Sabdega | Bhagapalli | Paddy Wheat Greengram Groundnut Maize Mustard | Indiscriminate use of pesticides Inadequate knowledge on Inadequate knowledge on INM | Increase yield & quality of produce in maize, groundnut, green gram Promote low duty crops to be grown after paddy as paira or on residual soil moisture regime | | |
| 5. | Sundargarh | Lefripada | Diamunda | Paddy Wheat Greengram Groundnut Maize Sunflower Mustard | Indiscriminate use of pesticides Inadequate knowledge on IPM Inadequate knowledge on INM | Increase yield & quality of produce in maize, groundnut, green gram Promote sandwitch cropping between two paddy crops | | |

1. Details of Operational area / Villages (2008-09)

2.7 **Priority thrust areas**

| S. No | Thrust area |
|-------|---|
| 1 | Crop diversification in Upland. |
| 2 | Increase in area of Horticultural crops (Mango, Litchi, Lemon, Banana etc.) |
| 3 | Introduction of HYV & Hybrid varieties. |
| 4 | Off season vegetable cultivation. |
| 5 | INM & IPM practices for all crops. |

3. TECHNICAL ACHIEVEMENTS

3.1. A. Abstract of interventions undertaken

| S. | Thrust | Crop/ | Identified | Interventions | | | | | |
|----|---------------------|------------|--|---|--|--|---|---|--|
| No | area | Enterprise | Problem | Title of OFT if any | Title of FLD if any | Title of Training if any | Title of training for extension personnel if any | Extension activities | Supply of seeds, planting materials etc. |
| 1. | Agronomy | Paddy | Distress sale of paddy due to absence of exportable quality | Assessment of scented var. of paddy | - | INM in scented variety of paddy | - | - | Seed |
| 2 | Agronomy | Paddy | Local variety is susceptible to diseases. | - | Introduction of HYV paddy(cv.Pratikshya) | INM in paddy | INM in paddy | - | seed |
| 3 | Plant Protection | Paddy | Indiscriminate use of pesticides | Management of caseworm in paddy | - | | | Diagnostic visit, Leaflets, Radio talk, | Trichocard, Triazophos |
| 4 | Plant Protection | Paddy | Indiscriminate use of pesticides | - | IPM in paddy | | | Film show, Diagnostic visit, Field day, Leaflets | Pheromone trap, Trichocard |
| 5 | Plant Protection | Brinjal | Indiscriminate use of pesticides | - | IPM in Brinjal | | | Diagnostic visit, Leaflets | Pheromone trap, Trichocard |
| 6 | Plant Protection | Groundnut | Indiscriminate use of pesticides | - | IPM in Groundnut | | | Diagnostic visit, Leaflets | Pheromone trap, Trichocard |
| 7. | Horticulture | Tomato | Wilting in Tomato (67%-88%) | | FLD on wilt tolerant tomato variety (Utkal Kumari) | Improved package of practices of tomato | | Film show, Diagnostic visit, Field day, Leaflets | Seed |
| 8. | Horticulture | Chilli | Low yield (24 q/ha) | - | FLD on HYV chilli (Utkal Ava) | Improved package of practices of chilli | | Film show, Diagnostic visit, Field day, Leaflets | Seed |
| 9. | Horticulture | | Less price in on- season due to market glut.(Rs21,400/ha sold @ Rs.400/q)) | - | FLD on Off-season cauliflower variety (Himlata) | Package of practices for early variety cauliflower-a remunerative enterprise. | - | Film show, Diagnostic visit, Field day, Leaflets | Seed |

| S. | Thrust | Crop/ | Identified | Interventions | | | | | |
|-----|--------------|---------------|-------------------------|---|---|---|---|----------------------------------|--|
| No | area | Enterprise | Problem | Title of OFT if any | Title of FLD if any | Title of Training if any | Title of training for extension personnel if any | Extension activities | Supply of seeds, planting materials etc. |
| 10. | Horticulture | Cauliflower | Low yield (136 q/ha) | - | INM in rabi cauliflower (Madhuri) | Improved package of practices of cauliflower | - | Diagnostic visit, Leaflets | Fertilizers, micronutrient |
| 11. | Horticulture | Brinjal | Low yield (218 q/ha) | Assessment of yield potential of brinjal (Utkal keshari) | - | Improved package of practices of brinjal | - | Diagnostic visit, Leaflets | Seed |
| 12. | Horticulture | Pointed gourd | Low yield (242 q/ha) | Assessment of yield potential of pointed gourd. (Swarna rekha) | | Improved package of practices of pointedgourd. | - | Diagnostic visit, Leaflets | Vine cuttings |

3.1. A. Details of each On Farm Trial

| 1 | Title of on-farm trials | Evaluation of scented var. of paddy |
|----|--------------------------------------|---|
| 2 | Problem diagnose | Distress sale of paddy due to absence of exportable |
| | | quality |
| 3 | Details of technologies selected for | Scented var. of paddy Pusa Basumati |
| | assessment | |
| 4 | Source of technology | OUAT |
| 5 | Production system | Rice-Rice |
| 6 | Thematic area | Varietal evaluation |
| 7 | Micro-farming system | Rainfed medium land |
| 8 | Performance of the Technology with | T1-Farmers variety(Gahamphul) |
| | parameter/ indicators | T2-High yielding variety (Pusa Basmati) |
| 9 | Final recommendation for micro level | Cultivation of Pusa Basmati makes farmer assured |
| | situation | of returns during distress sale. |
| 10 | Constraints identified and feedback | - |
| | for research | |
| 11 | Process of farmers participation and | Farmers participated during planning, |
| | their reaction | implementation and evaluation of the trial. |

3.1.A. Results of On Farm Trials

| Crop/ | Farming | Problem | Title of the | No. of | Technology | Parameters of |
|------------|-----------|------------|--------------|---------|------------|----------------|
| enterprise | situation | Diagnosed | OFT | trials* | Assessed | assessment |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Paddy | Rainfed | Distress | Evaluation | 3 | Scented | Yield, |
| | medium | sale of | of scented | | var. Pusa | recovery %, |
| | land | paddy due | var. of | | Basmati | marketability, |
| | | to absence | paddy | | | organoleptic |
| | | of | | | | quality, C:B, |
| | | exportable | | | | Farmers |
| | | quality | | | | feedback, |
| | | | | | | Farmers |
| | | | | | | reaction |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------|-----------------------|-----------------------------|---------------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| Yield(q/h) | Scented variety | Scented rice has | - | - |
| T1-24.16 | Pusa basmati | increased the | | |
| T2-34.34 | gives 42.13% | bargaining power of | | |
| | more yield than | farmer during | | |
| | local check. | distress sale. | | |

| Technology Assessed / Refined | *Production (t/ha) | Net Return (Profit) in Rs. / t | BC Ratio |
|----------------------------------|-----------------------|--------------------------------|-------------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | 2.41 | 3856 | 1.16 |
| Technology assessed** | 3.43 | 7889 | 1.23 |
| Technology refined** | | | |

3.1. B. Details of each On Farm Trial

| 1 | Title of on-farm trials | Assessment of caseworm in paddy |
|----|----------------------------------|---|
| 2 | Problem diagnose | Indiscriminate use of chemical pesticides, develop insect |
| | | resistance, resurgence and environmental pollution |
| 3 | Details of technologies selected | Use of tricho card, dragging of rope, draining of water |
| | for assessment | from field, putting karada twig and use of Triazophos. |
| 4 | Source of technology | OUAT |
| 5 | Production system | Rice-Rice |
| 6 | Thematic area | IPM |
| 7 | Micro-farming system | Rainfed low land |
| 8 | Performance of the Technology | T1-Farmers practice T2-Recommended practices |
| | with parameter/ indicators | Use of tricho card, |
| | | dragging of rope, |
| | | |
| | | • draining of water from field, |
| | | • putting <i>karada</i> twig |
| - | | • use of Triazophos |
| 9 | Final recommendation for | For effective control of caseworm in rice farmers release |
| | micro level situation | <i>Trichogramma parasitoids</i> and spraying of Triazophos. |
| 10 | Constraints identified and | - |
| | feedback for research | |
| 11 | Process of farmers participation | Farmers participated during planning, implementation and |
| | and their reaction | evaluation of the trial and they are happy to adopt the |
| | | technology. |

| Crop/ enterpris e | Farming situation | Problem Diagnosed | Title of the OFT | No. of trials* | Technology Assessed | Parameter s of assessment |
|-------------------------|------------------------|---|---------------------------------------|-------------------|---|---------------------------------|
| 1 | 2 | 3 | | 4 | 5 | 6 |
| Rice | Rainfed low land | Indiscriminate use of chemical pesticides, develop insect resistance, resurgence and environmental pollution | Assessment of caseworm in paddy | 5 | Use of tricho card, dragging of rope, draining of water from field, putting <i>karada</i> twig use of Triazophos | Yield, %leaf infestation |

| 3.1.B. Results of On Farm Trials | Results of On Farm Trials | 5 |
|---|----------------------------------|---|
|---|----------------------------------|---|

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------|-----------------------|--------------------------|---------------------------|------------------------------------|
| 7 | 8 | 9 | 10 | 11 |
| Yield | The recommended | Highly | Decided | - |
| T1- 20.2 q/ha | practice T2 yielded | appreciated the | later | |
| T2-26.5 q/ha | 26.5q/ha as | chemical pesticide | | |
| <u>% leaf</u> | compared to local | Triazophos and | | |
| Infestation | practice T1(20.2 | use of Tricho-card | | |
| T1-8-10% | q/ha)with % leaf | with draining of | | |
| T2-2-4% | infestation of 2- | water and | | |
| | 4%(T2) and 8- | dragging of rope. | | |
| | 10%(T1) | | | |
| | respectively. | | | |

| Technology Assessed / Refined | *Production (t/ha) | Net Return (Profit) in Rs. / t | BC Ratio |
|----------------------------------|-----------------------|--------------------------------|-------------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | 2.02 | 3028 | 1.14 |
| Technology assessed** | 2.65 | 5565 | 1.21 |
| Technology refined** | | | |

| 3.1 | C. Details of each On Farm Trial | |
|-----|----------------------------------|---|
| 1 | Title of on-farm trials | Assessment of yield potential of brinjal. |
| 2 | Problem diagnose | Low yield(218q/ha) of local cultivar(2195 ha area) |
| 3 | Details of technologies selected | Variety (Utkal Keshari): High yielding(250-300q/ha), |
| | for assessment | tolerant to wilt, released from OUAT in the year-1997. |
| 4 | Source of technology | OUAT, Bhubaneswar |
| 5 | Production system | Vegetable-Vegetable |
| 6 | Thematic area | Production of low volume & high value crops |
| 7 | Micro-farming system | Irrigated medium land |
| 8 | Performance of the Technology | T ₁ -Local cultivar |
| | with parameter/ indicators | T ₂ -High yielding variety(Utkal Keshari) |
| | | Variety-Utkal Keshari recorded maximum yield(276 |
| | | q/ha) |
| 9 | Final recommendation for micro | Suitable for Sundargarh sub-division |
| | level situation | |
| 10 | Constraints identified and | Shoot & Fruit borer attack(30%) |
| | feedback for research | |
| 11 | Process of farmers participation | Farmers participated during planning, implementation |
| | and their reaction | and evaluation of the trial. They are satisfied with higher |
| | | yield. |

3.1. C. Details of each On Farm Trial

3.1.C. Results of On Farm Trials

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|-----------------------------|----------------------|--|-------------------|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Brinjal | Irrigated medium land | Low yield | Assessment of yield potential of brinjal. | 5 | T ₁ -Local cultivar T ₂ -High yielding variety(Utkal Keshari) | Yield, economics, Farmers feedback, Farmers reaction |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|---|---|---|---------------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| $\begin{tabular}{lllllllllllllllllllllllllllllllllll$ | The introduced variety(Utkal Keshari) recorded higher yield(27.6 t/ha) which is 30.18% higher than local check. The B:C ratio is also more(1.65) as compared to local check(1.47). | High yielding variety with purple colour thin skin. | - | - |

| Technology Assessed / Refined | *Production (t/ha) | Net Return (Profit) in Rs. / t | BC Ratio |
|-------------------------------|--------------------|--------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | 21.2 | 23,600 | 1.47 |
| Technology assessed** | 27.6 | 32,800 | 1.65 |
| Technology refined** | - | - | - |

| D. Details of each On Far | |
|----------------------------|--|
| Title of on-farm trials | Assessment of yield potential of pointed gourd |
| Problem diagnose | Low yield(242q/ha), affected area is 698 ha. |
| Details of technologies | Developed through clonal selection, elongated fruit(30-35g), striped |
| selected for assessment | green, contain soft seed, yield-300-350 q/ha, released from HARP, |
| | Ranchi in 2006. |
| Source of technology | HARP, Ranchi |
| Production system | Vegetable-vegetable |
| Thematic area | Production of low volume and high value crops. |
| Micro-farming system | Irrigated medium land |
| Performance of the | T ₁ -Local cultivar |
| Technology with parameter/ | T ₂ -HYV(Swarna rekha) |
| indicators | |
| | |
| | Results awaited |
| | |
| Constraints identified and | Results awaited |
| feedback for research | |
| Process of farmers | Farmers participated during planning and implementation of the trial. |
| participation and their | |
| reaction | |
| | Title of on-farm trials Problem diagnose Details of technologies selected for assessment Source of technology Production system Thematic area Micro-farming system Performance of the Technology with parameter/ indicators Final recommendation for micro level situation Constraints identified and feedback for research Process of farmers participation and their |

3.1. D. Details of each On Farm Trial

3.1.D. Results of On Farm Trials

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT No. of trials* | | Technology Assessed | Parameters of assessment |
|---------------------|-------------------|----------------------|---------------------------------|---|------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Pointed | Irrigated | Low yield | Assessment | 3 | T ₁ -Local | Yield, |
| gourd | medium | | of yield | | cultivar | economics, |
| | land | | potential of | | T ₂ -HYV | Farmers |
| | | | pointed | | (Swarna rekha) | feed back, |
| | | | gourd | | | Farmers reaction. |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------------|-----------------------|-----------------------------|---------------------------|---------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| Yield Results awaited | Results awaited | _ | - | - |

| Technology Assessed / Refined | *Production (t/ha) | Net Return (Profit) in Rs. / t | BC Ratio |
|----------------------------------|--------------------|--------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | - | - | - |
| Technology assessed** | - | - | - |
| Technology refined** | - | - | - |

3.2 Achievements of Frontline Demonstrations

| S. | Thematic Area* | Technology | Details of popularization methods suggested to the | | ntal spread chnology | of |
|----|---|---|---|--------------------|-------------------------|---------------|
| No | Thematic Area | demonstrated | Extension system | No. of villages | No. of farmers | Area in ha |
| 1 | Crop production | HYV paddy | TV talk, Radio talk, News paper, Leaflets, Training, Demonstrations, Field day, Field visit etc. | 1 | 2 | 0.4 |
| 2 | IPM | IPM in paddy | TV talk, Radio talk, News paper, Leaflets, Training, Demonstrations, Field day, Field visit etc. | 3 | 10 | 1.0 |
| 3 | IPM | IPM in brinjal | TV talk, Radio talk, News paper, Leaflets, Training, Demonstrations, Field day, Field visit etc. | 3 | 8 | 1.0 |
| 4 | IPM | IPM in cauliflower | TV talk, Radio talk, News paper, Leaflets, Training, Demonstrations, Field day, Field visit etc. | 3 | 8 | 1.0 |
| 5 | Production of low volume and high value crops (Tomato) | Wilt tolerant variety(Utkal Kumari) | Radio talk, Leaflets, Training, Demonstrations, Field day, Field visit etc. | 1 | 5 | 0.4 |
| 6 | Off-season vegetables (Cauliflower) | Off -season variety (Himlata) | TV talk, Radio talk, Leaflets, Training, Demonstrations, Field day, Field visit etc. | 1 | 5 | 0.4 |

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

b. Details of FLDs implemented during 2008-09

| Sl. No. | Сгор | Thematic area | Technology Demonstrated | Season and | Area (ha) | | | f farmers | | Reasons for shortfall in |
|------------|-----------|--------------------------------|---|----------------|-----------|--------|-----------|-----------|-------|--------------------------|
| | | | | year | Proposed | Actual | SC/ ST | Others | Total | achievement |
| 1 | Paddy | Crop production | HYV | Kharif- 08 | 0.4 | 0.4 | 2 | 0 | 2 | |
| 2 | Paddy | Integrated Pest Management. | Introduction of Pheromone trap, Trichocard,need based application of pesticide. | Kharif- 08 | 5 | 4 | 4 | 2 | 6 | |
| 3 | Brinjal | Integrated Pest Management. | Introduction of Pheromone trap, Trichocard,need based application of pesticide. | Rabi- 08-09 | 2 | 1.5 | 3 | 2 | 5 | |
| 4 | Groundnut | Integrated Pest Management. | Introduction of Pheromone trap, Trichocard,need based application of pesticide. | Kharif- 08 | 10 | 10 | 8 | 2 | 10 | |

| Sl. No. | Сгор | Thematic area | Technology Demonstrated | Season and | Area (ha) | | No. of farmers/ demonstration | | | Reasons for shortfall in |
|------------|------------------|--|---|----------------|-----------|--------|----------------------------------|--------|-------|--------------------------|
| | | | | year | Proposed | Actual | SC/ ST | Others | Total | achievement |
| 5 | Tomato | Production of low volume and high value crops | Wilt tolerant variety (Utkal Kumari) | Rabi- 08-09 | 0.4 | 0.4 | 2 | 3 | 5 | |
| 6 | Chilli | Production of low volume and high value crops | HYV(Utkal Ava) | Rabi- 08-09 | 0.4 | 0.4 | 3 | 2 | 5 | |
| 7 | Cauli- flower | Off-season vegetables | Off Season variety (Himlata) | Kharif- 08 | 0.4 | 0.4 | 3 | 2 | 5 | |
| 8 | Cauli- flower | Integrated Nutrient Management | Recommended dose of Fertilizer, Micronutrient | Rabi- 08-09 | 0.4 | 0.4 | 4 | 0 | 4 | |

Details of farming situation

| Сгор | | | Soil | Statu | is of soil | | | | a | | |
|-------------|----------------|-------------------------------------|---------------|-------|------------|-----|------------------|-------------------------|-------------------------|---------------------------|----------------------|
| | Season | Farming situation (RF/Irrigated) | type | N | Р | K | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
| Paddy | Kharif- 08 | RF | Sandy loam | Low | medium | Low | Fallow | 22.7.08 to 23.7.08 | 26.11.08 to 4.12.08 | 415.20 | 26 |
| Paddy | Kharif- 08 | RF | Sandy loam | Low | medium | Low | Fallow | 10.7.08 to 15.7.08 | 25.11.08 to 30.11.08 | 415.20 | 26 |
| Brinjal | Rabi-08- 09 | Irrigated | Sandy loam | Low | medium | Low | paddy | 5.11.08 to 15.11.08 | 15.2.08 to 30.3.08 | - | - |
| Groundnut | Kharif- 08 | RF | Sandy loam | Low | medium | | | 15.7.08 to 25.7.08 | 4.11.08 to 7.11.08 | 415.20 | 26 |
| Tomato | Rabi- 08-09 | Irrigated | Sandy loam | Low | medium | Low | Fallow | 9.10.08 to 13.10.08 | 21.1.09 to 28.2.09 | - | - |
| Chilli | Rabi- 08-09 | Irrigated | Sandy loam | Low | medium | Low | paddy | 18.10.08 to 26.10.08 | 19.02.09 to 28.02.09 | - | - |
| Cauliflower | Kharif- 08 | RF | Sandy loam | Low | medium | Low | Onion | 09.08.08 to 13.08.08 | 10.10.08 to 26.10.08 | 415.20 | 26 |
| Cauliflower | Rabi- 08-09 | Irrigated | Sandy loam | Low | medium | Low | Fallow | 6.11.08 to 11.11.08 | 08.02.09 to 23.02.09 | - | - |

Performance of FLD

| Sl. No | Сгор | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) |
|-----------|-------------|----------------------------|--------------------|----------------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Paddy | HYV | Pratikshya | 2 | 0.4 |
| 2 | Paddy | IPM | Pooja & Pratikshya | 6 | 3.0 |
| 3 | Brinjal | IPM | Hybrids | 5 | 1.5 |
| 4 | Groundnut | IPM | TAG-24 | 10 | 3.0 |
| 5 | Tomato | Wilt tolerant variety | Utkal Kumari | 5 | 0.4 |
| 6 | Chilli | HYV | Utkal Ava | 5 | 0.4 |
| 7 | Cauliflower | Off-season variety | Himlata | 5 | 0.4 |
| 8 | Cauliflower | INM | Madhuri | 4 | 0.4 |

NB: Attach few good action photographs with title at the back with pencil

| Сгор | - | | Qtl/ha | Yield of local Check | Increase in yield | | | | |
|-------------|-------|-------|--------|----------------------------|----------------------|---|---|--|--|
| | H | L | Α | Qtl./ha | | Demo | Local | | |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | |
| Paddy | 45.0 | 40.0 | 42.5 | 30.0 | 41.66 | B-C ratio=1.2 | - | | |
| Paddy | 28.2 | 21.5 | 26.5 | 20.2 | 24 | - | - | | |
| Brinjal | 201 | 180 | 197 | 175 | 11 | - | - | | |
| Groundnut | 15.0 | 9.5 | 14.0 | 8.5 | 39.3 | - | - | | |
| Tomato | 226.6 | 204.8 | 210.7 | 148.0 | 42.36 | Wilt percentage= 6.88% Yield=210.7 qtl/ha B-C ratio=1.75 | Wilt percentage =57 % Yield=148.0 qtl/ha B-C ratio=1.23 | | |
| Chilli | 35.5 | 29.5 | 32.0 | 22.6 | 20.30 | | | | |
| Cauliflower | 78.21 | 71.56 | 72.88 | - | - | Yield=72.88 qtl/ha B-C ratio=1.97 | - | | |
| Cauliflower | 298.0 | 218.0 | 258.0 | 203.0 | 21.0 | Yield=258.0 qtl/ha B-C ratio=1.54 | Yield=203.0 qtl/ha B-C ratio=1.47 | | |

Economic Impact

| Average Cost of cultivation (Rs./ | | Average Gross I (Rs./ha) | Return | Average Net Ret (Profit) (Rs./ha) | turn | | Benefit-Cost Ratio (Gross | |
|--------------------------------------|----------------|-----------------------------|----------------|--------------------------------------|-------|-------------------------|------------------------------|--|
| Demonstration | Local Check | Demonstration | Local Check | Demonstration Local Check | | Return / Gross Cost) | | |
| | | | | | | Demo | local | |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| 48000 | 32000 | 84280 | 39464 | 36280 | 7464 | 1.75 | 1.23 | |
| 58000 | 48000 | 185600 | 131080 | 127600 | 83080 | 2.2 | 1.73 | |
| 66800 | - | 132000 | - | 65200 | - | 1.97 | - | |
| 50000 | 48000 | 77400 | 60900 | 27400 | 22900 | 1.54 | 1.47 | |

| Crop | Season | Component | - situation | | Local check (q/ha) | Percentage increase in productivity over local check | |
|-----------|--------|---------------------|-------------|------|--------------------------|--|--|
| Paddy | Kharif | Seed replacement | Rain Fed | 24.0 | 18.5 | 23 | |
| Paddy | Kharif | IPM | Rain fed | 26.5 | 20.6 | 22 | |
| Brinjal | Rabi | IPM | Irrigated | 175 | 160 | 9 | |
| Groundnut | Kharif | IPM | Rain fed | 14.0 | 9.5 | 32 | |

Analytical Review of component demonstrations (details of each component for rainfed / irrigated situations to be given separately for each season).

Technical Feedback on the demonstrated technologies

| Technology | Feed Back |
|--------------------|---|
| HYV paddy | 41.66% more yield of pratikshya over local has motivated farmers |
| IPM in Paddy | Indiscriminate use of chemical pesticides reduced, farmers happy over cost |
| | savings on pesticides |
| IPM in brinjal | Indiscriminate use of chemical pesticides reduced, farmers happy over cost |
| | savings on pesticides |
| IPM in Groundnut | Seed treatment reduced collar-rot problem.Hence optimum plant |
| | population could be maintained thereby increasing the yield. |
| Wilt tolerant | High yielding variety, tolerant to wilting, thin skin, appearance resemble |
| variety of Tomato | with local variety. |
| (var. Utkal | with local variety. |
| Kumari) | |
| HYV of chilli | High yielding variety, elongated fruit, more seed content, dark red in |
| (Utkal Ava) | colour, better pungency. |
| Off-season variety | Variety suitable for Off-season cultivation, bright white and compact curd. |
| of Cauliflower | |
| (var. Himlata) | |
| INM in cauliflower | Less expenditure, higher yield, bright white and compact curd, free from |
| | physiological disorder. |

Farmers' reactions on specific technologies

| Technology | Feed Back |
|-----------------------------------|--|
| HYV paddy | Farmers are satisfied with the variety and yield performance |
| IPM in paddy | Non availability of pheromone traps |
| IPM in brinjal | Non availability of pheromone traps and bicontrol agent |
| IPM in groundnut | Non availability of pheromone traps and bicontrol agent |
| Wilt tolerant variety of Tomato | Farmers are satisfied with the variety. |
| (var. Utkal Kumari) | rainers are satisfied with the variety. |
| HYV of chilli (Utkal Ava) | Farmers are satisfied with the variety. |
| Off-season variety of Cauliflower | Now farmers have taken interest in it. |
| (var. Himlata) | Now farmers have taken interest in it. |
| INM in cauliflower | Farmers are satisfied with the practice. |

| Sl. No. | Activity | No. of activities organised | Date | Number of participants | Remarks |
|------------|--------------------------------------|-----------------------------------|---|------------------------|---------|
| 1 | Field days | 2 | 09.02.09; 10.03.09 | 100 | |
| 2 | Farmers Training | 13 | $\begin{array}{c} 04.08.08 - 05.08.08,\\ 24.09.08 - 25.09.08,\\ 26.09.08 - 27.09.08,\\ 24.11.08 - 25.11.08,\\ 28.11.08 - 29.11.08,\\ 19.01.09 - 20.01.09,\\ 28.01.09 - 29.01.09,\\ 1.8.08 - 2.8.08\\ 11.8.08 - 12.8.08\\ 17.9.08 - 18.9.08\\ 24.9.08 - 25.9.08\\ 5.12.08 - 6.12.08\\ 11.7.08 - 12.7.08\\ \end{array}$ | 215 | |
| 3 | Media coverage | 3 | 30.09.08; 22.11.08; 22.8.08 | Mass | |
| 4 | Training for extension functionaries | 4 | 11.07.08-12.07.08 16.08.08-17.08.08 21.08.08-22.08.08 27.08.08-28.08.08 | 48 | |

Extension and Training activities under FLD

C. Details of FLD on Enterprises

A) Farm Implements

| Name of the implement | crop | No. of farmers | Area (ha) | Performance parameters / indicators | * Data parame relatio techno demons | eter in on to ology | % change in the parameter | Remarks |
|-----------------------------|------|-------------------|--------------|---|---|---------------------------|---------------------------------|---------|
| | | | | | Demon. | Local check | | |
| | | | | | | | | |

B) Field efficiency, labour saving etc.

(ii) Livestock Enterprises

| () | | 1 | | | | | | |
|------------|-------|---------|----------|--------------|---------|--------|-----------|---------|
| | | | | | * Data | a on | | |
| | | | No. of | | parame | ter in | | |
| | | No. of | animals, | Performance | relatio | n to | % change | |
| Enterprise | Breed | farmers | poultry | parameters / | techno | logy | in the | Remarks |
| _ | | Tarmers | birds | indicators | demons | trated | parameter | |
| | | | etc. | | Domon | Local | | |
| | | | | | Demon. | check | | |
| | | | | | | | | |

C) Milk production, meat production, egg production, reduction in disease incidence etc.

(iii) Other Enterprises

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

3.3 Achievements on Training (Including the sponsored and FLD training programmes)D) ON Campus

| . | No. of | Duration | | | No. | of Partic | cipants | | |
|---|---------|--------------------|------|--------|---|-----------|---------|-------|-------|
| Thematic Area | Courses | Duration (days) | | Others | - | | SC/ST | Grand | |
| | | (uays) | Male | Female | Total | Male | Female | Total | Total |
| (A) Farmers & Farm Women | | | | | | | | | |
| I Crop Production | | | | | | | | | |
| Weed Management | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | |
| Cropping Systems | 1 | 2 | 4 | 0 | 4 | 21 | 0 | 21 | 25 |
| Crop Diversification | | | | | | | | | |
| Integrated Farming | | | | | | | | | |
| Water management | | | | | | | | | |
| Seed production | | | | | | | | | |
| Nursery management | | | | | | | | | |
| Integrated Crop Management | | | | | | | | | |
| Fodder production | | | | | | | | | |
| Production of organic inputs | | | | | | | | | |
| II Horticulture | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | |
| Production of low volume and high | 1 | 2 | 19 | 0 | 19 | 6 | 0 | 6 | 25 |
| value crops | 1 | 2 | 19 | 0 | 19 | 0 | 0 | 0 | 23 |
| Off-season vegetables | | | | | | | | | |
| Nursery raising | 1 | 2 | 0 | 10 | 10 | 0 | 15 | 15 | 25 |
| Exotic vegetables like Broccoli | | | | | | | | | |
| Export potential vegetables | | | | | | | | | |
| Grading and standardization | | | | | | | | | |
| Protective cultivation (Green Houses, | | | | | | | | | |
| Shade Net etc.) | | | | | | | | | |
| b) Fruits | | | | | | | | | |
| Training and Pruning | | | | - | | | | | |
| Layout and Management of Orchards Cultivation of Fruit | | | | | | | | | |
| Management of young | | | | | | | | | |
| plants/orchards | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | |
| Export potential fruits | | | | | | | | 1 | |
| Micro irrigation systems of orchards | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | |
| Nursery Management | | | | | | | | | |
| Management of potted plants | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | |
| Propagation techniques of | | | | | | | | | |
| Ornamental Plants | | | | | | | | | |
| d) Plantation crops | | | | | | | | | |
| Production and Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | |
| e) Tuber crops | | | | | | | | | |
| Production and Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | |
| f) Spices Production and Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | + | | | | | | |
| Nursery management | | | 1 | | <u> </u> | <u> </u> | | | |
| Production and management | | | 1 | | † – – – – – – – – – – – – – – – – – – – | 1 | | 1 | |
| technology | | | | | | | | | |
| Post harvest technology and value | | | | | 1 | 1 | | | |
| addition | | | | | | | | | |

| Thematic Area Duration (days) Uters Uses | | No. of | | | | No. e | of Partic | inants | | |
|--|-----------------------------------|----------|----------|------|--------|-------|-----------|--------|-------|-------|
| HoldMadeFemaleTotalMadeFemaleTotalTotalManagement< | Thematic Area | | Duration | | Others | 1101 | | | | Grand |
| Management Image of the second s | | | (days) | Male | | Total | Male | | Total | Total |
| Soil affailty management Imagement Imagement Integrated Nutrient Management Imagement Imagement Production and use of organic inputs Imagement Imagement Management Imagement Imagement Soil and Water Texing Imagement Imagement Soil and Water Texing Imagement Imagement Soil and Water Texing Imagement Imagement Dary Management Imagement Imagement Pagery Management Imagement Imagement Pagery Management Imagement Imagement Production of quality animal products Imagement Imagement </td <td></td> | | | | | | | | | | |
| Soil and Water Conservation <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | | |
| Integrated Notrient Management Image of Notion Management Image of Notion Management Management of Problematic soils Image of Notion Management Image of Notion Management Management Image of Notion Management Image of Notion Management Management Image of Notion Management Image of Notion Management Dairy Management Image of Notion Management Image of Notion Management Dairy Management Image of Notion Management Image of Notion Management Poultry Management Image of Notion Management Image of Notion Management Dessee Management Image of Notion Management Image of Notion Management Poultry Management Image of Notion Management Image of Notion Management Dessee Management Image of Notion Management Image of Notion Management Production of Notion Management Image of Notion Management Image of Notion Management Production of Notion Management Image of Notion Management Image of Notion Management Postigation and development of Notion Management Image of Notion Management Image of Notion Management Postigation and Management Image of Notion Management Image of Notion Management Image of Notion Management Postigation Asystem Image of Notion Management Image of Notion Management Image of Notion Management | | | | - | | | | | | |
| Production and use of organic inputs Imagement of Problematic sols Imagement of Problematic sols Soil and Water Testing Imagement of Productions Imagement of Productions Imagement of Productions Dairy Management Imagement of Productions Imagement of Productions Imagement of Productions Producty Management Imagement Imagement of Productions Imagement of Productions Production of quality animal products Imagement of Production of quality animal products Imagement of Production of quality animal products Imagement of Production of quality animal products Production of quality animal products Imagement of Production of quality animal products Imagement of Production of quality animal products Imagement of Production of quality animal products Design and development of Drossing and development for high nutrient efficiency diet Imagement of Production of quality animal products Imagement of Production of quality animal products Design and development for high nutrient efficiency diet Imagement of Production of quality animal products Imagement of Production of Production of quality animal products Imagement of Production of Productio | | | | | | | | | | |
| Management of Problematic solis Micro nutrice deficiency in crops Nutrient Use Efficiency Soil and Water Testing S | | | | - | | | | | | |
| Micro nutrient deficiency in crops Soil and Water Testing Imagement Soil and Water Testing Imagement Dairy Management Imagement Dairy Management Imagement Pelotry Management Imagement Pelotry Management Imagement Pelotry Management Imagement Production of quality animal products Imagement Imagement Imagement Production of quality animal products Imagement Production of quality animal products Imagement Imagement Ima | | | | | | | | | | |
| Nutrient Use Efficiency Image: Control of Control Contrel Control Control Co | | | | | | | | | | |
| Soil and Water Testing Imagement Management Imagement Dairy Management Imagement Polary Management Imagement Production and Management Imagement Production of quality animal products Imagement Users of the development of low/minimum cost diet Imagement Design and development of low/minimum cost diet Imagement Design and development of low/minimum cost diet Imagement Design and development of nutrient (loss in processing Imagement Gender mainstreaming through SHGS Imagement Storage loss minimization techniques Imagement Value addition Imagement Income generation activities for empowerment of nurd Women Imagement Income generation activities for empowerment Imagement Income generatic andupit | | | | | | | | | | |
| Management University Univers | | | | | | | | | | |
| Dairy Management Image of the second sec | IV Livestock Production and | | | | • | • | • | • | • | |
| Poulry Management Image: Constraint of the second seco | | | | | | | | | | |
| Piggery Management < | | | | | | | | | | |
| Rabbit Management Disease Management Preduction of quality animal products < | | | | | | | | | | |
| Disease Management Feed manage | | | | | | | | | | |
| Feed management | | | | - | | | | | | |
| Production of quality animal products Image: Construct of the second | | | | | | | | | | |
| V Home Science/Women empowerment Household food security by kitchen gardening and nutrition gardening Design and development of low/minimum cost diet </td <td></td> | | | | | | | | | | |
| empowerment image: constraint of the second sec | | | | | | | | | | |
| Household food security by kitchen gardening and nutrition gardening Design and development of tow/minimum cost diet Designing and development for high nutrient efficiency diet Minimization of nutrient loss in processing Gender mainstreaming through SHGs Storage loss minimization techniques Value addition Income generation activities for empowerment of rural Women Location specific drudgery reduction technologies Rural Crafts VI Agril. Engineering Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Small scale processing and value addition Russi Technology Small scale processing and value addition Small scale processing and value addition Small scale processing and value addition Small scale processing and value addition Production of bio control agents and bio-control of pests and diseases VI Protection Integrated Pist Management Bio-control of pests and diseases VI Protection Integrated Fist framing Production of bio control agents and bio-pesticides VI Fisheries Integrated fish farming Production of bio control agents and bio-pesticides VI Fisheries Hore and thickery management Bio-control pests and diseases VI Fisheries Integrated fish farming Carb breeding and hatchery management Bio-control per stand diseases VI Fisheries Minimized processing and hatchery management Bio-control per stand diseases VI Fisheries Minimized processing and hatchery management Minimized processing and hatchery Minimized processing and ha | | | | | | | | | | |
| gardening and nutrition gardening <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | | |
| low/minimum cost diet Image: Constraint of the second | gardening and nutrition gardening | | | | | | | | | |
| Designing and development for high nutrient efficiency diet | | | | | | | | | | |
| nutrient efficiency diet Image: Section of nutrient loss in processing Image: Section of nutrient loss in processing Gender mainstreaming through SHGs Image: Section of nutrient loss in processing Image: Section of nutrient loss in processing Image: Section of nutrient loss in processing Storage loss minimization techniques Image: Section of nutrient loss in processing Image: Section of nutrient loss in processing Image: Section of nutrient loss in processing Location specific drudgery reduction techniques Image: Section of nutrient loss in processing Image: Section of nutrient loss in processing Image: Section of nutrient loss in processing Numer and child care Image: Section of nutrient loss in processing Image: Section of nutrient loss and implements Image: Section of nutrient loss and implements Image: Section of nutrient loss and implements Small scale processing and value addition Image: Section of loss and ling leaves technology Image: Section of section of loss and ling leaves technology Image: Section of loss and ling leaves techn | | | | | | | | | | |
| Minimization of nutrient loss in processing Image: Constraint of the second | | | | | | | | | | |
| processingImage: strate in the st | | | | | | | | | | |
| Gender mainstreaming through SHGs Image loss minimization techniques Image loss minimization techniques Storage loss minimization techniques Image loss minimization techniques Image loss minimization techniques Value addition Image loss minimization techniques Image loss minimization techniques Image loss minimization techniques Income generation activities for empowerment of rural Women Image loss minimization techniques Image loss minimization techniques Location specific drudgery reduction technologies Image loss minimization technologies Image loss minimization technologies Rural Crafts Image loss minimization and maintenance of micro irrigation systems Image loss minimization and maintenance of micro irrigation systems Image loss minimization and maintenance of farm machinery and implements Repair and maintenance of farm machinery and implements Image loss minimization and implements Image loss minimization and loss minimized lose loss minimized loss minimized loss minimized loss min | | | | | | | | | | |
| Storage loss minimization techniques Image loss minimization techniques Image loss minimization techniques Value addition Image loss minimization techniques Image loss minimization techniques Image loss minimization techniques Income generation activities for empowerment of rural Women Image loss minimization techniques Image loss minimization techniques Location specific drudgery reduction technologies Image loss minimization techniques Image loss minimization techniques Rural Crafts Image loss minimization techniques Image loss minimization techniques Image loss minimization techniques Women and child care Image loss minimization and maintenance of micro irrigation systems Image loss minimization techniques Image loss minimization techniques Use of Plastics in farming practices Image loss minimization techniques Image loss minimization techniques Image loss minimization techniques Production of small tools and implements Image loss minimization techniques Image loss minimization techniques Image loss minimization techniques Small scale processing and value addition Image loss minimization techniques Image loss minimization techniques Image loss minimization techniques Not Harvest Technology Image loss minimization techniques Image loss minimization technic techniques Image loss min | | | | | | | | | | |
| Value addition Income generation activities for Image: Composition of the composition | | | | | | | | | | |
| Income generation activities for empowerment of rural Women Image: Comparison of the second seco | | | | | | | | | | |
| empowerment of rural WomenImage: Constraint of the second sec | | | | | | | | | | |
| technologiesImage: state in the | | | | | | | | | | |
| Rural Crafts Image: Crafts </td <td></td> | | | | | | | | | | |
| Women and child careImage: Constraint of the second se | | | | | | | | | | |
| VI Agril. EngineeringImage: Section of the section of th | | | | | | | | | | |
| Installation and maintenance of micro irrigation systems Use of Plastics in farming practices Production of small tools and implements Repair and maintenance of farm machinery and implements Small scale processing and value addition Post Harvest Technology VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides VII Fisheries Integrated fish farming Carp breeding and hatchery management | | | | | | | | | | |
| irrigation systemsImage: systemsIm | VI Agril. Engineering | | | | | | | | | |
| Use of Plastics in farming practices Image: Constraint of the second | | | | | | | | | | |
| Production of small tools and implementsImage: small tools and implements <th< td=""><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | <u> </u> | | | | | | | | | |
| implementsImage: second se | | | | | | | | | | ļ |
| Appair and maintenance of farm machinery and implementsImage: state of the state | | | | | | | | | | |
| machinery and implementsImage: Small scale processing and value additionImage: Small scale processing addition additionImage: Small scale processing addition additio | | | | - | | | | | | |
| Small scale processing and value additionImage: Small scale processing and scale processing and hatchery managementImage: Small scale processing and value additionImage: Small scale processing and value addition <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | | |
| additionImage: constraint of the second | | | | | | | | | | |
| Post Harvest Technology Image: Constraint of the second secon | | | | | | | | | | |
| VII Plant ProtectionImage: sea of the sea | | | | | | | | | | |
| Integrated Disease Management Image Integrated Disease Managem | | | | | | | | | | |
| Integrated Disease Management Image Integrated Disease Managem | Integrated Pest Management | | | | | | | | | |
| Bio-control of pests and diseases Image: Control agents and bio pesticides Image: | | + | | | | | | | | |
| Production of bio control agents and bio pesticides Image: Control agents and bio pesticides <td></td> <td>╂───┤</td> <td>L</td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> | | ╂───┤ | L | 1 | | 1 | | | | |
| bio pesticides Image: Constraint of the second | | <u>├</u> | | | | | | | | |
| VIII FisheriesImage: Sector of the sector of th | | | | | | | | | | |
| Carp breeding and hatchery management | | | | | | | | | | |
| Carp breeding and hatchery management | Integrated fish farming | | | | | | | | | |
| management | | ╂───┤ | | 1 | | | | | | |
| | | | | | | | | | | |
| | Carp fry and fingerling rearing | 1 | | 1 | | 1 | | | | |

| | No. of | | No. of Participants | | | | | | |
|---|---------|----------|---------------------|--------|-------|------|--------|-------|----------|
| Thematic Area | Courses | Duration | | Others | 110. | | SC/ST | | Grand |
| | | (days) | Male | Female | Total | Male | Female | Total | Total |
| Composite fish culture | | | | | | | | | |
| Hatchery management and culture of | | | | | | | | | |
| freshwater prawn | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | |
| Pen culture of fish and prawn | | | | | | | | | |
| Shrimp farming | | | | | | | | | |
| Edible oyster farming | | | | | | | | | |
| Pearl culture | | | | | | | | | |
| Fish processing and value addition | | | | | | | | | |
| IX Production of Inputs at site | | | | | | | | | |
| Seed Production | | | | | | | | | |
| Planting material production | | | | | | | | | |
| Bio-agents production | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | |
| Bio-fertilizer production | | | | | | 1 | | 1 | |
| Vermi-compost production | | | | | | | | | |
| Organic manures production | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | |
| Production of Bee-colonies and wax | | | | | | | | | |
| sheets | | | | | | | | | ļ |
| Small tools and implements | | | | | | | | | ļ |
| Production of livestock feed and | | | | | | | | | |
| fodder Production of Fish feed | | | | | | | | | |
| X Capacity Building and Group | | | | | | | | | |
| Dynamics | | | | | | | | | |
| Leadership development | | | | | | | | | |
| Group dynamics | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | |
| Mobilization of social capital | | | | | | | | | |
| Entrepreneurial development of | | | | | | | | | |
| farmers/youths | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | |
| Production technologies | | | | | | | | | |
| Nursery management | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | |
| XII Others (Pl. Specify) | | | | | | | | | |
| TOTAL | - | _ | - | - | - | - | - | - | - |
| (B) RURAL YOUTH | | | | | | | | | |
| Mushroom Production | | | | | | | | | |
| Bee-keeping | | | | | | | | | |
| Integrated farming | | | | | | | | | |
| Seed production | | | | | | | | | |
| Production of organic inputs | | | | | | | | | |
| Integrated Farming | | | | | | | | | <u> </u> |
| Planting material production | | | | | | | | | ļ |
| Vermi-culture | | | | | | | | | <u> </u> |
| Sericulture | | | | | | | | | |
| Protected cultivation of vegetable | | | | | | | | | |
| crops Commercial fruit production | | | + | | | | | | |
| Repair and maintenance of farm | | | + | | | | | | |
| machinery and implements | | | | | | | | | |
| Nursery Management of Horticulture | 1 | | 1 | | | 1 | | 1 | |
| crops | | | | | | | | | |
| Training and pruning of orchards | | | | | 1 | 1 | | 1 | |
| Value addition | | | | | | | | | |

| | No. of | Duration | | | No. (| of Partic | ipants | | |
|---------------------------------------|---------|----------|------|--------|-------|-----------|--------|-------|-------|
| Thematic Area | Courses | (days) | | Others | - | | SC/ST | 1 | Grand |
| | | (uuys) | Male | Female | Total | Male | Female | Total | Total |
| Production of quality animal products | | | | | | | | | |
| Dairying | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | |
| Quail farming | | | | | | | | | |
| Piggery | | | | | | | | | |
| Rabbit farming | | | | | | | | | |
| Poultry production | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | |
| Para vets | | | | | | | | | |
| Para extension workers | | | | | | | | | |
| Composite fish culture | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | |
| Shrimp farming | | | | | | | | | |
| Pearl culture | | | | | | | | | |
| Cold water fisheries | | | | | | | | | |
| Fish harvest and processing | | | | | | | | | |
| technology | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | |
| Small scale processing | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | |
| Rural Crafts | | | | | | | | | |
| TOTAL | | | | | | | | | |
| © Extension Personnel | | | | | | | | | |
| Productivity enhancement in veg. | | | | | | | | | |
| crops | | | | | | | | | |
| Integrated Pest Management | | | | | | | | | |
| Integrated Nutrient management | 1 | 2 | 4 | 3 | 7 | 1 | 2 | 3 | 10 |
| Rejuvenation of old orchards | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | |
| Group Dynamics and farmers | | | | | | | | | |
| organization | | | | | | | | | |
| Information networking among | | | | | | | | | |
| farmers | | | | | | | | | |
| Capacity building for ICT application | | | | | | | | | |
| Care and maintenance of farm | | | | | | | | | |
| machinery and implements | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | |
| Management in farm animals | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | |
| Household food security | İ | | | | 1 | | | | |
| Women and Child care | | | 1 | | 1 | 1 | 1 | 1 | |
| Low cost and nutrient efficient diet | | | 1 | | | | | | |
| designing | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | |
| Mushroom preservation | | | | | | | | | |
| TOTAL | | | | | | | | | |
| IUIAL | | | | | | | | | l |

OFF Campus

| OFF Campus | No. of | | | No. of Participants | | | | | |
|---|---------|----------|------|---------------------|-------|------|--------|-------|----------|
| Thematic Area | Courses | Duration | | Others | 110. | | SC/ST | | Grand |
| | | (days) | Male | Female | Total | Male | Female | Total | Total |
| (A) Farmers & Farm Women | | | | | | | | | |
| I Crop Production | | | | | | | | | |
| Weed Management | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | |
| Cropping Systems | | | | | | | | | |
| Crop Diversification | 1 | 2 | 10 | 0 | 10 | 15 | 0 | 15 | 25 |
| Integrated Farming | | | | | | | | | |
| Water management | | | | | | | | | |
| Seed production | | | - | | | | | | |
| Nursery management | | | | | | | | | l |
| Integrated Nutrient Management (INM) | 3 | 6 | 31 | 0 | 31 | 44 | 0 | 44 | 75 |
| Fodder production | | | | | | | | | |
| Production of organic inputs | | | | | | | | | |
| II Horticulture | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | |
| Production of low volume and high | 6 | 12 | 63 | 0 | 63 | 87 | 0 | 87 | 150 |
| value crops | U | 12 | 05 | U | 05 | 0/ | 0 | 0/ | 150 |
| Off-season vegetables | | | | | | | | | |
| Nursery raising | 1 | 2 | 0 | 20 | 20 | 0 | 5 | 5 | 25 |
| Exotic vegetables like Broccoli | | | | | | | | | |
| Export potential vegetables | | | - | | | | | | |
| Grading and standardization | | | | | | | | | |
| Protective cultivation (Green Houses, | | | | | | | | | |
| Shade Net etc.) b) Fruits | | | - | | - | | | | |
| Training and Pruning | | | | | | | | | |
| Layout and Management of Orchards | | | | | | | | | |
| Cultivation of Fruit | | | | | | | | | |
| Management of young plants/ | | | | | | | | | |
| orchards | | | | | | | | | |
| Rejuvenation of old orchards | | | | | | | | | |
| Export potential fruits | | | | | | | | | |
| Micro irrigation systems of orchards | | | | | | | | | |
| Plant propagation techniques | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | |
| Nursery Management | | | - | | | | | | |
| Management of potted plants | | | | | | | | | |
| Export potential of ornamental plants | | | - | | | | | | |
| Propagation techniques of Ornamental Plants | | | | | | | | | |
| d) Plantation crops | | | | | | | | | |
| Production and Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | 1 |
| e) Tuber crops | | | | | | | | | |
| Production and Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | |
| f) Spices | | | | | | | | | |
| Production and Management | | | | | | | | | |
| technology | | | | | | | | | <u> </u> |
| Processing and value addition | | | | | | | | | ļ |
| g) Medicinal and Aromatic Plants | | | | | | | | | |
| Nursery management Production and management | | | | | | | | | |
| technology | | | | | | | | | |
| Post harvest technology and value | | | | | | | | | |
| addition | | | | | | | | | |

| | No. of | _ | No. of Participants | | | | | | |
|--|---------|--------------------|---------------------|--------|-------|---------|--------|------------|----------|
| Thematic Area | Courses | Duration (days) | | Others | 1,01, | | SC/ST | | Grand |
| | | (uays) | Male | Female | Total | Male | Female | Total | Total |
| III Soil Health and Fertility | | | | | | | | | |
| Management | | | | | | | | | |
| Soil fertility management | | | | | | | | | |
| Soil and Water Conservation | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | <u> </u> |
| IV Livestock Production and Management | | | | | | | | | |
| Dairy Management | | | | | | | | | |
| Poultry Management | - | | | | | | | | |
| Piggery Management | | | | | | | | | |
| Rabbit Management | | | | | | | | | |
| Disease Management | | | | | | | | | |
| Feed management | | | | | | | | | |
| Production of quality animal products | | | | | | | | | <u> </u> |
| V Home Science/Women | | | | | | | | | |
| empowerment | | | | 1 | 1 | 1 | 1 | 1 | 1 |
| Household food security by kitchen | | | | | | | | | |
| gardening and nutrition gardening Design and development of | | | | | | | | | |
| low/minimum cost diet | | | | | | | | | |
| Designing and development for high | + | | | | | | | | |
| nutrient efficiency diet | | | | | | | | | |
| Minimization of nutrient loss in | | | | | | | | | |
| processing | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | |
| Value addition | | | | | | | | | ļ |
| Income generation activities for empowerment of rural Women | | | | | | | | | |
| Location specific drudgery reduction technologies | | | | | | | | | |
| Rural Crafts | | | | | | | | | ļ |
| Women and child care | | | | | | | | | |
| VI Agril. Engineering | | | | | | | | | |
| Installation and maintenance of micro irrigation systems | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | |
| Production of small tools and | 1 | | 1 | | | | | | |
| implements | | | | | | | | | |
| Repair and maintenance of farm | | | | | | | | | |
| machinery and implements | | | - | | | | | | |
| Small scale processing and value addition | | | | | | | | | |
| Post Harvest Technology | + | | | | | | | | |
| VII Plant Protection | | | | | | | | | |
| | | 10 | A | 17 | 01 | <u></u> | 2 | <i>c i</i> | 147 |
| Integrated Pest Management | 6 | 12 | 64 | 17 | 81 | 61 | 3 | 64 | 145 |
| Integrated Disease Management Bio-control of pests and diseases | 1 | 2 | 8 | 0 | 8 | 12 | 0 | 12 | 20 |
| Production of bio control agents and | 1 | 2 | ð | U | ð | 12 | U | 12 | 20 |
| bio pesticides | | | | | | | | | |
| VIII Fisheries | | | | | | | | | |
| Integrated fish farming | | | | | | | | | |
| Carp breeding and hatchery | | | | | | | | | |
| management | | | | | | | | | |

| | No. of | | | | | | | | |
|---|----------|--------------------|------|----------|-------|-----------|--------|--|----------|
| Thematic Area | Courses | Duration (days) | | Others | 110. | of Partic | | Grand | |
| | | | Male | Female | Total | Male | Female | Total | Total |
| Carp fry and fingerling rearing | | | | | | | | | |
| Composite fish culture | | | | | | | | L | ļ |
| Hatchery management and culture of | | | | | | | | | |
| freshwater prawn | | | - | | | 1 | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | |
| Portable plastic carp hatchery | | | + | | | | | <u> </u> | |
| Pen culture of fish and prawn | | | - | | | [| | | |
| Shrimp farming | | | | | | | | | |
| Edible oyster farming | | | 1 | | | | | | |
| Pearl culture | | | | | | | | | |
| Fish processing and value addition | | | 1 | | | | | | |
| IX Production of Inputs at site | | | | | | | | | |
| Seed Production | | | | | | | | | |
| Planting material production | | | - | | | | | | |
| Bio-agents production | - | | | | | | | | |
| Bio-pesticides production | | | 1 | | | | | 1 | |
| Bio-fertilizer production | 1 | | 1 | | | 1 | | 1 | |
| 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 | | | _ | | | | | <u> </u> | |
| Production of Fish feed | | | | | | | | <u> </u> | |
| X Capacity Building and Group Dynamics | | | | | | | | | |
| Leadership development | 2 | 4 | 14 | 0 | 14 | 36 | 0 | 36 | 50 |
| Group dynamics | 1 | 2 | 4 | 0 | 4 | 21 | 0 | 21 | 25 |
| Formation and Management of SHGs | - | | · · | 0 | • | 21 | Ŭ | 21 | 23 |
| Mobilization of social capital | | | 1 | | | | | | |
| Entrepreneurial development of | 1 | 2 | 10 | 0 | 10 | 20 | 10 | 10 | 50 |
| farmers/youths | 1 | 2 | 10 | 0 | 10 | 30 | 10 | 40 | 50 |
| WTO and IPR issues | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | |
| Production technologies | | | 1 | | | | | - | |
| Nursery management | - | | | | | | | | |
| Integrated Farming Systems | | | 1 | | | | | | |
| XII Others (Pl. Specify) | | | | | | | | | |
| TOTAL | | | | | | | | | |
| (B) RURAL YOUTH | | | | | | | | | |
| Mushroom Production | | | 1 | | | 1 | | - | |
| Bee-keeping | 1 | 3 | 2 | 0 | 2 | 13 | 0 | 13 | 15 |
| Integrated farming | | | + | | | | | | |
| Seed production | 1 | 2 | 3 | 0 | 3 | 7 | 0 | 7 | 10 |
| Production of organic inputs | | | | | | | | | |
| Integrated Farming | | | | | | | | | |
| Planting material production | | | | | | | | | |
| Vermicomposting | 1 | 2 | 17 | 0 | 17 | 2 | 6 | 8 | 25 |
| Sericulture | 1 | 2 | 8 | 0 | 8 | 2 | 0 | 2 | 10 |
| Protected cultivation of vegetable | | | | | | | | | |
| crops | <u> </u> | ļ | | | | | | <u> </u> | |
| Commercial fruit production | <u> </u> | | + | <u> </u> | | | | ─── | <u> </u> |
| Repair and maintenance of farm machinery and implements | | | | | | | | | |
| Nursery Management of Horticulture | <u> </u> | | + | | | } | | ├ | |
| crops | | | | | | | | | |
| Training and pruning of orchards | + | | 1 | | | | | 1 | |
| guine presining of oreinandes | | <u>.</u> | | L | 1 | I | 1 | ــــــــــــــــــــــــــــــــــــــ | i |

| | No. of | | No. of Participants | | | | | | | |
|---------------------------------------|----------|--------------------|---------------------|--------|-------|------|--------|----------|-------|--|
| Thematic Area | Courses | Duration (days) | Others SC/ST | | | | | | | |
| | | | Male | Female | Total | Male | Female | Total | Total | |
| Value addition | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| Dairying | | | | | | | | | | |
| Sheep and goat rearing | | | | | | | | | | |
| Quail farming | | | | | | | | | | |
| Piggery | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | |
| Poultry production | | | | | | | | | | |
| Ornamental fisheries | | | | | | | | | | |
| Para vets | | | | | | | | | | |
| Para extension workers | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | |
| Shrimp farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | |
| Fish harvest and processing | | | | | | | | | | |
| technology | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | |
| Small scale processing | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| TOTAL | | | | | | | | | | |
| | | | | | | | | | | |
| © Extension Personnel | | | | | | | | | | |
| Productivity enhancement in veg. | | | | | | | | | | |
| crops | | | | | | | | | | |
| Integrated Pest Management | 1 | 2 | 5 | 5 | 10 | 4 | 1 | 5 | 15 | |
| Integrated Nutrient management | 1 | 2 | 6 | 0 | 6 | 4 | 0 | 4 | 10 | |
| Rejuvenation of old orchards | | | 0 | | | | 0 | · | 10 | |
| Protected cultivation technology | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | |
| Group Dynamics and farmers | | | | | | | | | | |
| organization | | | | | | | | | | |
| Information networking among | | | | | | | | | | |
| farmers | 1 | 2 | 11 | 0 | 11 | 2 | 0 | 2 | 13 | |
| Capacity building for ICT application | | | | | | | | | | |
| Care and maintenance of farm | | | | | | | | | | |
| machinery and implements | | | | | | | | | | |
| WTO and IPR issues | | | | | | | | | | |
| Management in farm animals | | <u> </u> | 1 | | 1 | | | | | |
| Livestock feed and fodder production | <u> </u> | | | | | | | <u> </u> | | |
| Household food security | | | | | | | | <u> </u> | | |
| Women and Child care | | | | | | | | | | |
| Low cost and nutrient efficient diet | | | | | | | | | | |
| designing | | | | | | | | | | |
| Production and use of organic inputs | - | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| | | | | | | | | | | |
| Any other (Pl. Specify) | | | | | | | | | | |
| TOTAL | | | | | | | | | | |

E) Consolidated table (On and Off Campus)

| | No. of | Duration (days | | | | | | | |
|---|---------|-------------------|--------------|--------|-------|------|--------|-------|-------|
| Thematic Area | Courses | | Others SC/ST | | | | | | |
| (A) Egund out 9 Egund Ward out | | | Male | Female | Total | Male | Female | Total | Total |
| (A) Farmers & Farm Women I Crop Production | | | | | | | | | |
| Weed Management | | | | | | | | | |
| Resource Conservation Technologies | | | | | | | | | |
| Cropping Systems | 1 | 2 | 4 | 0 | 4 | 21 | 0 | 21 | 25 |
| Crop Diversification | 1 | 2 | 10 | 0 | 10 | 15 | 0 | 15 | 25 |
| Integrated Farming | 1 | 2 | 10 | 0 | 10 | 15 | 0 | 15 | 23 |
| Water management | | | | | | | | | |
| Seed production | | | | | | | | | |
| Nursery management | | | | | | | | | |
| Integrated Nutrient Management (INM) | 3 | 6 | 31 | 0 | 31 | 44 | 0 | 44 | 75 |
| Fodder production | 5 | 0 | 51 | 0 | 51 | | 0 | | 15 |
| Production of organic inputs | | | | | | | | | |
| II Horticulture | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | |
| Production of low volume and high | | | | | | | | | |
| value crops | 7 | 14 | 82 | 0 | 82 | 93 | 0 | 93 | 175 |
| Off-season vegetables | | | | | | | | | |
| Nursery raising | 2 | 4 | 0 | 30 | 30 | 0 | 20 | 20 | 50 |
| Exotic vegetables like Broccoli | 2 | 4 | 0 | 50 | 50 | 0 | 20 | 20 | 50 |
| Export potential vegetables | | | | | | | | | |
| Grading and standardization | | | | | | | | | |
| Protective cultivation (Green Houses, | | | | | | | | | |
| Shade Net etc.) | | | | | | | | | |
| b) Fruits | | | 1 | | | 1 | | 1 | |
| Training and Pruning | | | 1 | | | 1 | | 1 | |
| Layout and Management of Orchards | | | [| | | | | | |
| Cultivation of Fruit | | | 1 | | | 1 | | 1 | |
| Management of young plants/orchards | | | 1 | | | 1 | | 1 | |
| Rejuvenation of old orchards | | | 1 | | | 1 | | 1 | |
| Export potential fruits | | | | | | | | | |
| Micro irrigation systems of orchards | | | [| | | | | | |
| Plant propagation techniques | | | | | | | | | |
| c) Ornamental Plants | | | 1 | | | 1 | | 1 | |
| Nursery Management | | | | | | | | | |
| Management of potted plants | | | | | | | | | |
| Export potential of ornamental plants | | | | | | | | | |
| Propagation techniques of Ornamental | | | | | | | | | |
| Plants | | | | | | | | | |
| d) Plantation crops | | | 1 | | | 1 | | 1 | |
| Production and Management | | | | | | | | 1 | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | |
| e) Tuber crops | | | | | | | | | |
| Production and Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | |
| f) Spices | | | | | | | | | |
| Production and Management | | | | | | | | | |
| technology | | | | | | | | | |
| Processing and value addition | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | |
| Nursery management | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Production and management | | | | | | | | | |
| technology | | | | | | | | | |
| Post harvest technology and value | | | | | | | | | |
| addition | | | | | | | | | |
| III Soil Health and Fertility | | | 1 | | 1 | 1 | | 1 | 1 |
| Management | | | | | | | | | |
| Soil fertility management | | | t | 1 | 1 | t | 1 | t | 1 |

| | | Duration | No. of Participants | | | | | | | |
|---|---------|----------|---------------------|--------|-------|------|----------|-------|----------------|--|
| Thematic Area | No. of | (days | Others SC/ST | | | | | | | |
| | Courses | | Male | Female | Total | Male | Female | Total | Grand Total | |
| Soil and Water Conservation | | | | | | | | | | |
| Integrated Nutrient Management | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | |
| Management of Problematic soils | | | | | | | | | | |
| Micro nutrient deficiency in crops | | | | | | | | | | |
| Nutrient Use Efficiency | | | | | | | | | | |
| Soil and Water Testing | | | | | | | | | | |
| IV Livestock Production and | | | | | | | | | | |
| Management | | | | | | | | | | |
| Dairy Management | | | | | | | | | | |
| Poultry Management | | | | | | | | | | |
| Piggery Management | | | | | | | | | | |
| Rabbit Management | | | | | | | | | | |
| Disease Management | | | | | | | | | | |
| Feed management | | | | | | | | | | |
| Production of quality animal products | | | | | | | | | | |
| V Home Science/Women | | | | | | | <u> </u> | | | |
| empowerment | | | | | | | | | | |
| Household food security by kitchen | | | | | | | | | | |
| gardening and nutrition gardening | | | | | | | | | | |
| | | | | | | | | | | |
| Design and development of low/minimum cost diet | | | | | | | | | | |
| | | | | | | | | | | |
| Designing and development for high | | | | | | | | | | |
| nutrient efficiency diet | _ | | | | | | | | | |
| Minimization of nutrient loss in | | | | | | | | | | |
| processing | _ | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | |
| Storage loss minimization techniques | | | | | | | | | | |
| Value addition | | | | | | | | | | |
| Income generation activities for | | | | | | | | | | |
| empowerment of rural Women | | | | | | | | | | |
| Location specific drudgery reduction | | | | | | | | | | |
| technologies | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | |
| Women and child care | | | | | | | | | | |
| VI Agril. Engineering | | | | | | | | | | |
| Installation and maintenance of micro | | | | | | | | | | |
| irrigation systems | | | | | | | | | | |
| Use of Plastics in farming practices | | | | | | | | | | |
| Production of small tools and implements | | | | | | | | | | |
| Repair and maintenance of farm | | | | | | | | | | |
| machinery and implements | | | | | | | | | | |
| Small scale processing and value addition | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | |
| VII Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 6 | 12 | 64 | 17 | 81 | 61 | 3 | 64 | 145 | |
| | 0 | 12 | 04 | 17 | 01 | 01 | 3 | 04 | 145 | |
| Integrated Disease Management | 1 | 2 | 0 | 0 | 0 | 10 | 0 | 10 | 20 | |
| Bio-control of pests and diseases | 1 | 2 | 8 | 0 | 8 | 12 | 0 | 12 | 20 | |
| Production of bio control agents and | | | | | | | | | | |
| bio pesticides | | | | | | | | | | |
| VIII Fisheries | | | | | | | | | | |
| Integrated fish farming | | | | | | | | | | |
| Carp breeding and hatchery management | | | ļ | | | | | | | |
| Carp fry and fingerling rearing | | | | | | | | | | |
| Composite fish culture | | | | | | | | | | |
| Hatchery management and culture of | | | | | | | | | | |
| freshwater prawn | | | | | | | | | | |
| Breeding and culture of ornamental fishes | | | | | | | | | | |
| Portable plastic carp hatchery | | | | | | | | | | |
| Pen culture of fish and prawn | | | İ | | | | | İ | | |
| Shrimp farming | - | 1 | | | | | | | | |

| | | Duration | | No. of Part | | | rinants | | | |
|---|---------|----------|----------|-------------|---------|------|---------|----------|----------|--|
| Thematic Area | No. of | (days | Others | | | | SC/ST | | Grand | |
| | Courses | | Male | Female | Total | Male | Female | Total | Total | |
| Edible oyster farming | | | | | | | | | | |
| Pearl culture | | | | | | | | | | |
| Fish processing and value additionIX Production of Inputs at site | | | | | | | | | | |
| Seed Production | - | | | | | | | | | |
| Planting material production | | | | | | | | ł – – – | | |
| Bio-agents production | | | | | | | | | | |
| Bio-pesticides production | | | | | | | | | | |
| Bio-fertilizer production | | | | | | | | | | |
| Vermi-compost production | | | | | | | | | | |
| Organic manures production | | | | | | | | | | |
| Production of fry and fingerlings | | | | | | | | | | |
| Production of Bee-colonies and wax sheets | | | | | | | | | | |
| Small tools and implements | | | | | | | | | | |
| Production of livestock feed and fodder | | | | | | | | | | |
| Production of Fish feed | | | | | | | | | | |
| X Capacity Building and Group | | | | | | | | | | |
| Dynamics | | | | | | 0.5 | | | | |
| Leadership development | 2 | 4 | 14 | 0 | 14 | 36 | 0 | 36 | 50 | |
| Group dynamics | 1 | 2 | 4 | 0 | 4 | 21 | 0 | 21 | 25 | |
| Formation and Management of SHGs | | | | | | | | | | |
| Mobilization of social capital Entrepreneurial development of | | | | | | | | | | |
| farmers/youths | 1 | 2 | 10 | 0 | 10 | 30 | 10 | 40 | 50 | |
| WTO and IPR issues | | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | | |
| Production technologies | | | | | | | | | | |
| Nursery management | | | | | | | | | | |
| Integrated Farming Systems | | | | | | | | | | |
| XII Others (Pl. Specify) | | | | | | | | | | |
| TOTAL | | | | | | | | | | |
| (B) RURAL YOUTH | | | | | | | | | | |
| Mushroom Production | | | | | | | | | | |
| Bee-keeping | 1 | 3 | 2 | 0 | 2 | 13 | 0 | 13 | 15 | |
| Integrated farming | | | | | | | | | | |
| Seed production | 1 | 2 | 3 | 0 | 3 | 7 | 0 | 7 | 10 | |
| Production of organic inputs | | | | | | | | | | |
| Integrated Farming | - | | | - | | | - | | | |
| Planting material production | 1 | 2 | 17 | 0 | 17 | 2 | (| 0 | 25 | |
| Vermicomposting | 1 | 2 2 | 17 | 0 | 17 8 | 2 | 6 0 | 8 | 25 10 | |
| Sericulture Protected cultivation of vegetable crops | 1 | 2 | 8 | 0 | 8 | 2 | 0 | 2 | 10 | |
| 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 | | | <u> </u> | | | | | | | |
| Quail farming | - | | | | | | | | | |
| Piggery | | | | | | | | | | |
| Rabbit farming | | | | | | | | | | |
| Poultry production | | | | | | | | | | |
| Ornamental fisheries | + | | | | | | | | | |
| Para vets | | | | | | | | | | |
| Para extension workers Composite fish culture | | | | | | | | | | |
| Freshwater prawn culture | | | | | | | | | | |
| | 1 | | 1 | | | | | L | | |

| | No of | Duration | | | | | | | | | | |
|--|-------------------|----------|------|--------|-------|------|--------|-------|-------|--|--|--|
| Thematic Area | No. of Courses | (days | | | Grand | | | | | | | |
| | Courses | | Male | Female | Total | Male | Female | Total | Total | | | |
| Pearl culture | | | | | | | | | | | | |
| Cold water fisheries | | | | | | | | | | | | |
| Fish harvest and processing technology | | | | | | | | | | | | |
| Fry and fingerling rearing | | | | | | | | | | | | |
| Small scale processing | | | | | | | | | | | | |
| Post Harvest Technology | | | | | | | | | | | | |
| Tailoring and Stitching | | | | | | | | | | | | |
| Rural Crafts | | | | | | | | | | | | |
| TOTAL | | | | | | | | | 60 | | | |
| | | | | | | | | | | | | |
| © Extension Personnel | | | | | | | | | | | | |
| Productivity enhancement in veg. crops | | | | | | | | | | | | |
| Integrated Pest Management | 1 | 2 | 5 | 5 | 10 | 4 | 1 | 5 | 15 | | | |
| Integrated Nutrient management | 2 | 4 | 10 | 3 | 13 | 5 | 2 | 7 | 20 | | | |
| Rejuvenation of old orchards | | | | | | | | | | | | |
| Protected cultivation technology | | | | | | | | | | | | |
| Formation and Management of SHGs | | | | | | | | | | | | |
| Group Dynamics and farmers | | | | | | | | | | | | |
| organization | | | | | | | | | | | | |
| Information networking among farmers | 1 | 2 | 11 | 0 | 11 | 2 | 0 | 2 | 13 | | | |
| Capacity building for ICT application | | | | | | | | | | | | |
| Productivity enhancement in veg. crops | | | | | | | | | | | | |
| Integrated Pest Management | 1 | 2 | 5 | 5 | 10 | 4 | 1 | 5 | 15 | | | |
| Management in farm animals | | | | | | | | | | | | |
| Livestock feed and fodder production | | | | | | | | | | | | |
| Household food security | | | | | | | | | | | | |
| Women and Child care | | | | | | | | | | | | |
| Low cost and nutrient efficient diet | | | | | | | | | | | | |
| designing | | | | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | | | | |
| Gender mainstreaming through SHGs | | | | | | | | | | | | |
| Productivity enhancement in vegetable | | | | | | | | | | | | |
| crops | | | | | | | | | | | | |
| Mushroom preservation | | | | | | | | | | | | |
| TOTAL | | | | | | | | | 63 | | | |

| Date | le | Title of the training programme | n in | Venue (Off / On | | រmber ticipរ | | Number of SC/ST | | |
|-----------------------|-----------|---|------------------|--------------------|------|-----------------|-------|--------------------|--------|-------|
| | Clientele | | Duration days | Campus) | Male | Female | Total | Male | Female | Total |
| 11.7.08- 12.7.08 | IS | INM in paddy | 2 | Off | 5 | 5 | 10 | 1 | 2 | 3 |
| 1.8.08- 2.8.08 | PF | INM in paddy | 2 | Off | 25 | 0 | 25 | 21 | 0 | 21 |
| 22.8.08- 23.8.08 | PF | SRI of paddy | 2 | On | 25 | 0 | 25 | 12 | 0 | 12 |
| 23.10.08- 24.10.08 | PF | Acid soil management | 2 | Off | 25 | 0 | 25 | 16 | 0 | 16 |
| 6.1.09- 7.1.09 | PF | Soil fertility management | 2 | Off | 25 | 0 | 25 | 7 | 0 | 7 |
| 9.3.09- 10.3.09 | PF | Improved package and practice of Hyb. Sunflower | 2 | Off | 25 | 0 | 25 | 15 | 0 | 15 |
| 1-2.8.08 | FW | IPM in kharif rice | 2 | Off | 17 | 0 | 17 | 3 | 0 | 3 |
| 4-5.8.08 | PF | Improved package of practices of brinjal | 2 | Off | 25 | 0 | 25 | 11 | 0 | 11 |

| Date | le | Title of the training programme | ni n | Venue (Off / On | | imber ticipa | | | mber SC/ST | |
|-------------|-----------|--|---------------------|--------------------|------|-----------------|-------|------|---------------|-------|
| | Clientele | | Duration in days | Campus) | Male | Female | Total | Male | Female | Total |
| 11-12.8.08 | FW | Knowledge of bio-pesticide & their use against different insect & disease of vegetable | 2 | Off | 8 | 0 | 8 | 12 | 0 | 12 |
| 16-17.8.08 | IS | IPM in paddy | 2 | Off | 5 | 5 | 10 | 4 | 1 | 5 |
| 21-22.8.08 | IS | INM in mango | 2 | Off | 10 | 0 | 10 | 4 | 0 | 4 |
| 24-25.9.08 | FW | Nursery raising of solanaceous vegetables | 2 | Off | 0 | 25 | 25 | 0 | 5 | 5 |
| 26-27.9.08 | PF | Improved package of practices of capsicum | 2 | Off | 25 | 0 | 25 | 12 | 0 | 12 |
| 29-30.9.08 | RY | Seed production in tomato | 2 | Off | 10 | 0 | 10 | 7 | 0 | 7 |
| 24-25.11.08 | PF | Improved package of practices of Chilli | 2 | Off | 25 | 0 | 25 | 19 | 0 | 19 |
| 28-29.11.08 | PF | Improved package of practices of Brinjal | 2 | Off | 25 | 0 | 25 | 7 | 0 | 7 |
| 19-20.01.09 | PF | Improved package of practices of Pointed gourd | 2 | Off | 25 | 0 | 25 | 23 | 0 | 23 |
| 28-29.01.09 | PF | Improved package of practices of Tomato | 2 | Off | 25 | 0 | 25 | 15 | 0 | 15 |
| 24-25.3.09 | FW | Nursery raising of solanaceous vegetables | 2 | ON | 0 | 25 | 25 | 0 | 15 | 15 |
| 26-27.3.09 | PF | Improved package of practices of Bittergourd | 2 | ON | 25 | 0 | 25 | 6 | 0 | 6 |
| 4-5.8.08 | FW | Improved package of practices of brinjal | 2 | Off | 25 | 0 | 25 | 16 | 0 | 16 |
| 21-22.8.08 | IS | INM in Mango | 2 | Off | 10 | 0 | 10 | 3 | 0 | 3 |
| 30-31.1.08 | FW | Mobilization of rural credit for upliftment of resource poor farmers. | 2 | Off | 7 | 2 | 9 | 12 | 4 | 16 |
| 4-5.2.08 | IS | Use of ICT for effective dissemination of technologies. | 2 | Off | 5 | 1 | 6 | 4 | 1 | 5 |
| 19-20.3.08 | FW | Management of Farmers clubs for market led production. | 2 | Off | 5 | 1 | 6 | 14 | 5 | 19 |
| 24-25.3.08 | RY | Eco friendly vermicomposting | 2 | On | 5 | 2 | 7 | 13 | 5 | 18 |
| 26-27.3.08 | FW | In-situ soil water conservation practices. | 2 | Off | 19 | 0 | 19 | 1 | 0 | 1 |
| 28-29.3.08 | FW | Cultivation of Fodder grasses | 2 | Off | 11 | 8 | 19 | 5 | 1 | 6 |
| 4-5.6.08 | FW | Leadership development & group mobilization in farmers | 2 | Off | 9 | 0 | 9 | 16 | 0 | 16 |
| 22-23.8.08 | FW | SRI method of rice cultivation | 2 | On | 13 | 0 | 13 | 12 | 0 | 12 |
| 11-12.7.08 | IS | INM in paddy | 2 | Off | 3 | 4 | 7 | 1 | 2 | 3 |
| 1-2.8.08 | FW | Integrated crop management | 2 | Off | 4 | 0 | 4 | 21 | 0 | 21 |

(D) Vocational training programmes for Rural Youth – Not conducted

| | | | | No. of Participants | | | Self e | Number of | | |
|----------------------|---------------------------|--------------------|--------------------|---------------------|--------|-------|---------------------|--------------------|----------------------------------|-----------------------------------|
| Crop / Enterprise | Identified Thrust Area | Training title* | Duration (days) | Male | Female | Total | Type of units | Number of units | Number of persons employed | persons employed else where |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| SI | | | | | | | Sponsori | | | | | | | |
|--------|-----------|------------|--------|----------|-----|--------|----------|----|-------|-----|-------|-------|------|--------------|
| • | Title | Thematic | | Duratio | PF/ | course | Ma | le | Fema | ale | [| Fotal | | - |
| N 0 | THE | area | h | n (days) | RY/ | | Other | SC | Other | SC | Other | SC/ | Tota | ng Agency |
| Ū | | | | | EF | | s | ŚT | S | ŚT | S | ST | 1 | |
| 1 | Acid Soil | Soil | March | 2 | PF | 2 | 50 | 5 | 50 | 5 | 100 | 10 | 20 | OUAT, |
| | Manageme | fertility | | | | | | 0 | | 0 | | 0 | 0 | BBSR |
| | nt | manageme | | | | | | | | | | | | |
| | | nt | | | | | | | | | | | | |
| 2 | IPM in | Productio | Octobe | 2 | PF | 1 | 3 | 1 | 3 | 7 | 6 | 19 | 25 | Govt. of |
| | Maize | n & | r, | | | | | 2 | | | | | | INDIA |
| | | protection | | | | | | | | | | | | |
| | | technolog | | | | | | | | | | | | |
| | | у | | | | | | | | | | | | |
| | | Total | - | 2 | | 2 | 50 | 5 | 50 | 5 | 100 | 10 | 20 | - |
| | | | | | | | | 0 | | 0 | | 0 | 0 | |

(E) Sponsored Training Programmes

3.4. Extension Activities (including activities of FLD programmes)

| Nature of | Nf | | Farmers | | | nsion Off | | | Total | |
|-----------------------|----------------------|------|---------|-------|------|-----------|-------|------|--------|-------|
| Extension Activity | No. of activities | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Field Day | 4 | 161 | 39 | 200 | 7 | 1 | 8 | 168 | 40 | 208 |
| Kisan Mela | 14 | 2150 | 650 | 2800 | 14 | 6 | 20 | 2164 | 656 | 2820 |
| Kisan Ghosthi | | | | | | | | | | |
| Exhibition | 8 | 500 | 300 | 800 | 12 | 4 | 16 | 512 | 304 | 816 |
| Film Show | 14 | 390 | 360 | 750 | 14 | 11 | 25 | 404 | 371 | 775 |
| Method | | | | | | | | | | |
| Demonstrations | | | | | | | | | | |
| Farmers | | | | | | | | | | |
| Seminar | | | | | | | | | | |
| Workshop | | | | | | | | | | |
| Group | 15 | 300 | 150 | 450 | 60 | 20 | 80 | 360 | 170 | 530 |
| meetings | | | | | | | | | | |
| Lectures | 20 | 600 | 200 | 800 | - | - | - | 600 | 200 | 800 |
| delivered as | | | | | | | | | | |
| resource | | | | | | | | | | |
| persons | | | | | | | | | | |
| Newspaper | 3 | | | | | | | | | Mass |
| coverage | | | | | | | | | | |
| Radio talks | 15 | | | | | | | | | Mass |
| TV talks | | | | | | | | | | |
| Popular articles | 5 | | | | | | | | | Mass |
| Extension | 4 | | | | | | | | | Mass |
| Literature | | | | | | | | | | |
| Advisory | | | | | | | | | | |
| Services | | | | | | | | | | |
| Scientific visit | 227 | 1005 | 214 | 1219 | - | - | - | 1005 | 214 | 1219 |
| to farmers field | | | | | | | | | | |
| Farmers visit to | 1399 | 887 | 512 | 1399 | - | - | - | 887 | 512 | 1399 |
| KVK | | | | | | | | | | |
| Diagnostic | 6 | 29 | 0 | 29 | 0 | 0 | 0 | 29 | 0 | 29 |

| Nature of | No. of | | Farmers | | Exte | nsion Off | icials | | Total | |
|-----------------------|------------|------|---------|-------|------|-----------|--------|------|--------|-------|
| Extension Activity | activities | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| visits | | | | | | | | | | |
| Exposure visits | | | | | | | | | | |
| Ex-trainees | 1 | 52 | 8 | 60 | - | - | - | 52 | 8 | 60 |
| Sammelan | | | | | | | | | | |
| Soil health | | | | | | | | | | |
| Camp | | | | | | | | | | |
| Animal Health | | | | | | | | | | |
| Camp | | | | | | | | | | |
| Agri mobile | | | | | | | | | | |
| clinic | | | | | | | | | | |
| Soil test | | | | | | | | | | |
| campaigns | | | | | | | | | | |
| Farm Science | | | | | | | | | | |
| Club | | | | | | | | | | |
| Conveners | | | | | | | | | | |
| meet | | | | | | | | | | |
| Self Help | | | | | | | | | | |
| Group | | | | | | | | | | |
| Conveners | | | | | | | | | | |
| meetings | | | | | | | | | | |
| Mahila | | | | | | | | | | |
| Mandals | | | | | | | | | | |
| Conveners | | | | | | | | | | |
| meetings | | | | | | | | | | |
| Akshya Tritiya | 3 | 95 | 55 | 150 | 2 | 2 | 4 | 97 | 57 | 154 |
| World Food | | | | | | | | | | |
| Day | | | | | | | | | | |
| Women in | | | | | | | | | | |
| Agril. | | | | | | | | | | |
| Any Other | | | | | | | | | | |
| (Specify) | | | | | | | | | | |
| Total | 1738 | 6169 | 2488 | 8657 | 109 | 44 | 153 | 6278 | 2532 | 8810 |

3.5 Production and supply of Technological products SEED MATERIALS

| SEED WATERIALS | | | | | | | | | | |
|---------------------|------------|-----------|--------------------|----------------|-------------------------------|--|--|--|--|--|
| Category | Сгор | Variety | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers | | | | | |
| CEREALS | Paddy | Pratikhya | 22.5 | 27630 | OSSC | | | | | |
| OILSEEDS | Ground nut | Smruti | 2.2 | 7520 | KVK FLD | | | | | |
| PULSES | - | - | - | - | - | | | | | |
| VEGETABLES | - | - | - | - | - | | | | | |
| FLOWER CROPS | - | _ | - | - | - | | | | | |
| OTHERS (Specify) | _ | _ | - | _ | - | | | | | |

SUMMARY

| Sl. No. | Сгор | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|------------|----------|-----------------|-------------|-------------------------------|
| 1 | CEREALS | 22.5 | 27630 | OSSC |
| 2 | OILSEEDS | 2.2 | 7520 | KVK FLD |

| 3 | PULSES | - | - | - |
|---|--------------|------|-------|---|
| 4 | VEGETABLES | - | - | - |
| 5 | FLOWER CROPS | - | - | - |
| 6 | OTHERS | - | - | - |
| | TOTAL | 24.7 | 35150 | - |

PLANTING MATERIALS

| Sl. No. | Сгор | Variety | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|---------------------|-------------|-----------------------|--------------------|----------------|-------------------------------|
| FRUITS | Mango | Amrapalli, Dasheri | 94 | 1551 | 15 |
| | K.Lime | K.Lime | 25 | 275 | 10 |
| | Papaya | Honey Dew | 60 | 260 | 10 |
| SPICES | | | | | |
| VEGETABLES | Tomato | BT-10, BT-12 | 12760 | 3180 | 17 |
| | Brinjal | HYV | 3328 | 838 | 18 |
| | Chilly | HYV | 520 | 133 | 5 |
| | Cauliflower | | 3375 | 848 | 12 |
| FOREST SPECIES | | | | | |
| ORNAMENTAL CROPS | | | | | |
| | | | | | |
| PLANTATION CROPS | | | | | |
| | | | 2001 | 200 | |
| Others (specify) | Tomato | | 200 kg | 300 | 12 |
| RAW VEG. | Capsicum | | 14 kg | 140 | 5 |
| | Cauliflower | | 40 kg. | 83 | 3 |

| Sl. No. | Сгор | Quantity (Nos.) | Value (Rs.) | Provided to | |
|---------|----------------|-----------------|-------------|----------------|--|
| | | | | No. of Farmers | |
| 1 | FRUITS | 182 | 2100 | 20 | |
| 2 | VEGETABLES | 20000 | 5000 | 52 | |
| 3 | SPICES | - | - | - | |
| 4 | FOREST SPECIES | - | - | - | |

| 5 | ORNAMENTAL CROPS | - | - | - |
|---|------------------|---------|------|----|
| 6 | PLANTATION CROPS | - | - | - |
| 7 | OTHERS | 254 kg. | 523 | 20 |
| | TOTAL | | 7623 | 92 |

| BIO PRODUCTS | | | | | | | | |
|-----------------------|---------|----------|-----|----------|----------------|-----------|--|--|
| Sl. No. | Product | Species | Qua | Quantity | | Provided | | |
| | Name | _ | No | (kg) | (Rs.) | to No. of | | |
| | | | | | | Farmers | | |
| BIOAGENTS | - | - | - | - | - | - | | |
| BIOFERTILIZERS | Vermi | Eusiniea | | 500 | - | Used in | | |
| | compost | fotida | | | | KVK farm | | |
| BIO PESTICIDES | - | - | - | - | - | - | | |

| SI | l. | Product Name | Species | Quantity | | Value | Provided to No. of |
|----|--------|------------------------|-----------------|----------|---------------|----------------|--------------------|
| No |). | 1 Toduct Maine | species | No | (kg) | (Rs.) | Farmers |
| 1 | | BIOAGENTS | - | - | - | - | - |
| 2 | , , | BIO FERTILIZERS | Eusiniea fotida | | 500 | - | Used in KVK farm |
| 3 | | BIO PESTICIDE | - | - | - | - | - |
| | | TOTAL | - | - | 500 | - | - |

LIVESTOCK: NIL

| Sl. No. | Туре | Breed | Quantity | | Value | Provided to No. of |
|-------------------------|------|-------|----------|-----|----------------|--------------------|
| | | | (Nos | Kgs | (Rs.) | Farmers |
| Cattle | - | - | - | - | - | - |
| Sheep and Goat | - | - | - | - | - | - |
| Poultry | - | - | - | - | - | - |
| Fisheries | - | _ | - | - | - | - |
| Others (Specify) | - | - | _ | - | - | - |

| | SUMMARY | | | | | |
|-----|--------------|----------------|-----|-------|----------------|--------------------|
| Sl. | Type | Breed Quantity | | ntity | Value | Provided to No. of |
| No. | Туре | Dieeu | Nos | Kgs | (Rs.) | Farmers |
| 1 | CATTLE | - | - | - | - | - |
| 2 | SHEEP & GOAT | - | - | - | - | - |
| 3 | POULTRY | - | - | - | - | - |
| 4 | FISHERIES | - | - | - | - | - |
| 5 | OTHERS | _ | - | - | - | - |
| | TOTAL | - | - | - | - | - |

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

(A) KVK News Letter: Chasbas (2) 31st Mar 2008 Half Yearly 400 copies

| (D) Literature | e developed/published | | Number | Dudget head* |
|----------------------------------|--|--|--------|---|
| Item | Title | Authors name | Number | Budget head* from which expenditure incurred |
| Research papers | Insecticides mediated tri- trophis interaction in rice ecosystem with reference to WBPH. Impact of hostplant resistance and time of planting on rice BPH,<i>N</i>. <i>Lugens</i>(Stal.) and its natural | Panda S. K, Nayak, S.K, Behera U.K Panda S. K, Nayak, S.K, Behera U.K | 2 | Self finance |
| Technical reports | enemies. Annual Report Action Plan FLD Maize report FLD(Oilseed) report FLD(Pulse) report Bench Mark Survey PRA Survey | All Scientists | 7 | KVK, Cont. |
| News letters Technical | Chasbas | All Scientists | 2 | KVK, Cont. |
| bulletins Popular articles | Mechanical control of pests | S.K.Nayak, C.M Panda | 1 | |
| | Neem-A safe pesticide | S.K.Nayak, C.M Panda | 1 | |
| | Control of <i>Gajar</i> grass and use of it in compost making | S.K.Nayak, C.M Panda | 1 | |
| | Role of companion crop in pests control. | S.K.Nayak, C.M Panda | 1 | |
| | Trap crop in pest management | S.K.Nayak, C.M Panda | 1 | |
| | Neem pesticides | S.K.Nayak J.K. Pati | 1 | |
| | Pheromone trap in pest management | S.K.Nayak | 1 | |
| | Scientific cultivation of black pepper | C.M. Panda | 1 | |

(B) Literature developed/published

| | Cultivation of medicinal yam | A.K. Mohanty | 1 | |
|-------------|-------------------------------|--------------|-----|-----------|
| Extension | Groundnut-A crop alternate to | S.K.Nayak, | 200 | KVK Cont. |
| literature | upland paddy | C.M Panda | | |
| | Improved package of practices | A.K. Mohanty | 200 | KVK Cont. |
| | of Maize | C.M Panda | | |
| | IPM in Maize | A.K. Mohanty | 200 | KVK Cont. |
| | | S.K. Nayak | | |
| | Organic farming | S.K.Nayak, | 200 | KVK Cont. |
| | | C.M Panda | | |
| Others (Pl. | | | | |
| specify) | | | | |
| TOTAL | | | | |

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

| (C) | Details of Electronic Media Produced | | | | |
|--------------|--|---------|----|-----|--------|
| S. | Type of media (CD / VCD / DVD / Audio- | Title | of | the | Number |
| No. | Cassette) | program | me | | |
| | | | | | |
| | | | | | |

3.7. Success stories/ Case studies

OFF-SEASON VEGETABLE CULTIVATION(CAULIFLOWER)

- 1. Name of the Enterprise/ Practice / Technology: Off Season Vegetable cultivation (Cauliflower)
- Name and address of the farmer: Sri Pitamber Naik 2.

Village/Post: Bhedabahal, Block: Sundargarh Sadar District: Sundargarh

- State: Orissa
- 3. Initial Status. The cauliflower which becomes available from 1st week of October to last week of November in Sundargarh market comes from Raigarh district of Chhatishgarh and the market price remains Rs.40/- per kg. Therefore the farmers of Raigarh district get more profit by cultivating this cauliflower as off-season in kharif. So one thing came to our mind that why farmers of Sundargarh district will not get more profit out of this enterprise.

The agroclimatic condition and soil of Sundargarh district is very much conducive for vegetable cultivation. Since 56% of the total cultivated area is high land and 80.5% of total cultivated area is rainfed. There is enormous scope for kharif vegetables. Having good scope for marketing inside the district itself in a city like Rourkela and other towns like Rajgangpur, Bonai, Sundargarh and Jharsuguda, off-season vegetable cultivation can be promoted in the district, particularly in kharif. In some blocks like Nuagaon, Bisra, Lathikata,

Rajgangpur, Kutra and sadar block farmers are practicing kharif tomato and brinjal. Likewise cauliflower can be taken in kharif also.

Bhedabahal, a village in Sundargarh sadar block is situated at a distance of 9 kms from district head quarters. Fifty four families live in this village are mostly small, mariginal and landless labourers. Paddy is the principal crop in kharif. Due to lack of irrigation facilities land remains vacant in Rabi and also in summer. About 42 acres of upland which is occupied by short duration paddy in kharif can be diverted for cultivation of vegetables in kharif. But due to their old traditional pattern and lack of knowledge in this regard this land can not be converted to vegetable cultivation.

4. KVK Intervention: Keeping in view getting good return from off season cauliflower, the scientists of KVK motivated him to go for off-season cauliflower cultivation. A 2-days training programme on "Cultivation of off-season cauliflower" was conducted at KVK campus. A FLD was given in 1000m² in the year 2007-08 in which improved agro-techniques including IPM method was demonstrated.

5. Innovative extension approach

- **A. Training and Demonstration**-Know how and do how of recent technology was provided to him through training and demonstration. KVK scientists made him acquainted with pest identification, necessary plant protection measures including biological methods of control.
- **B. Input Linkage**-He was linked with input dealers dealing with quality of inputs such as seeds, fertilizers and plant protection chemicals.
- **C. Market Linkage**-He was linked to vegetable retailers of Sundargarh and Jharsuguda town for remuneration prices and guaranteed buyback of off season cauliflower.

6. Details of the technology:

- I. Selection of variety: Himlata
- **II.** Nursery raising:

Time: 1st week of July

Condition: Protected with low cost plastic tunnel using bamboo frame.

Seed treatment: Bavistin @ 1g/Kg seed.

Nursery bed size: 3mX1mX0.15m

III. Transplanting:

Time: 1st week of August

Spacing: 45X45 cm

Treatment of seedlings: With Bavistin @ 2g/litre for 30 minutes.

Protection of seedlings from rain: Covering with leaf funnel made from sal leaves as well as with *khapar*, made from burnt soil which is used for roofing.

IV. Inter-culture: twice

Once in 3rd week of August Another in 1st week of September

V. Manuring and Fertilizer:

FYM: 10 t/ha N:P:K: 120:60:60 Kg/ha Boron: Spraying @ 3g/litre(twice) in 1st and 3rd week of September.

VI. Plant protection Measures(IPM):

Intercropping: Cauliflower : Marigold(trap crop)=15:1 Use of Trichocard: 20000 eggs/acre. Spraying: Need based application with Endosulfan @ 2ml/litre and Neem oil @ 3 ml /litre alternately to control *Spodoptera*

VII. Harvesting and yield:

Duration : 60 days Method : harvesting with sharp knife. Average curd weight: 280 g Yield : 48q/ha

VIII. Packaging: In plastic net bags to enhance the keeping quality and freshness.

7. Adoption of the technology and benefit to the farmer: New Technology of cultivating off season high demand cauliflower has fetched him good return. The sale price was Rs 1.32 lakhs/ha., cost of production was Rs 0.67 lakhs/ha and net profit was Rs 0.65 lakhs/ha. During 1st year(2006-07), the area given under demonstration was 1000m². This year the area has been increased to 1 acre and other 5 farmers of nearby village-Kirei have also started off-season cauliflower cultivation in 2 acres of land.

8. Models of technology dissemination:

INNOVATIVE TECHNOLOGY DISSEMINATION MODEL

| PARTICIPATORY SITUATION ANALY | SIS THROUGH PRA IN ADOPTED VILLAGE |
|--|---------------------------------------|
| - | |
| LACK OF AWARENESS REGARDING CUL | TIVATION OF OFF-SEASON CAULIFLOWER |
| POOR KNOWLEDGE IN IMPROVED CULT | IVATION PRACTICES |
| CLIMATIC FEASIBILITY FOR OFF-SEASO | N CALILIELOWER CUILTIVATION |
| MARKET FACILITY AT SUNDARGARH. R | , |
| | |
| TRAINING ON OFF-SEASON CAULIFLOW | ER CULTIVATION |
| DEMONSTRATION ON "OFF-SEASON C SUPPLY OF TECHNICAL LITERATURE, TH VIDEO SHOW, SUPERVISION | |
| | |
| AVERAGE CURD WEIGHT: 280 G | METHOD: HARVESTING WITH SHARP KNIFE. |
| AVERAGE CORD WEIGHT: 200 G | , 11222 . 72.000/11/1 |
| | S/HA., COST OF PRODUCTION WAS RS 0.67 |
| LAKHS/HA AND NET PROFIT WAS RS 0.6 | 5 LAKHS/HA. |
| CONVICTION OF THE FARMERS THAT O | FF-SEASON CAULIFLOWER IS A |
| REMUNERATIVE ENTERPRISE WAS ESTA | |
| LINKAGE WITH TRADERS AND MARKET OTHER FARMERS OF NEAR BY VILLAGE | |
| INTERESTED TO GROW OFF-SEASON CA | |
| | |
| | r |
| | N OTHER VILLAGES ABOUT OFF-SEASON |
| CAULIFLOWER | |
| | |
| KVK IS PLANNING TO | • |
| | ARMERS AND ADOPTED VILLAGES ON OFF- |
| SEASON CAULIFLOWER | |
| DEMONSTRATION ON CULTIVATION | OF OFF-SEASON CAULIFLOWER |
| FACILITATE LINKAGE WITH INPUT | DEALERS AND MARKET FOR SUPPLY OF |
| QUALITY INPUTS AND SALE OF PROI | DUCE AT REMUNERATIVE PRICE. |
| | |
| | |

- **9. Farmers' reaction and feedback**: The farmers were surprised to see the success of off season cauliflower cultivation. They appreciated the net profit which was absent in cultivating paddy in uplands. The farmers of nearby village- Kirei & Kandabahal also took interest in adopting this technology.
- 10. Extent of diffusion effect of the newly adopted technology. (Horizontal spread): Five farmers of nearby villages of Kerei, Badbahal and Kandabahal have followed his foot steps and have recently started off-season cauliflower cultivation. Exposure visit teams from Tangarpali and Hemgiri block with support from ATMA have visited his farm to see his success and it is likely have many more are to follow in near future.
- 11. Follow up action: KVK, Sundargarh has documented the success. It has developed plan to promote off-season cauliflower in blocks like Nuagaon, Kutra and Rajgang pur. Trainings and demonstrations planned to be conducted in these blocks and facilitate linkage with input dealers and market for supply of quality inputs and sale of produce at remunerative price.
- 12. Lessons learnt: Cauliflower in Sundargarh district is being cultivated as on-season crop i.e. in Rabi season but due to climatic suitability it can also be taken as off-season crop. The market price of rabi season crop which becomes available in the month of December-January remains hardly Rs.10/- per kg. Whereas the market price of kharif season(off-season) crop which becomes available in October remains Rs.40/- per kg. Therefore the profit is 4 times in case of off-season cauliflower as compared to on-season crop. So if cauliflower is spread in whole district as off-season crop, then the economic condition of farmers can be improved. By this enterprise the internal demand can be fulfilled as well as excess produce can be sold in markets of other districts and states.

13. Action Photo:



IPM in Brinjal



Off Season Cauliflower



Celebration of Women in Agriculture day



FLD on Dhingri Mushroom

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

- a. Phone-in programme on every Wednesday after noon.
- b. Establishment for Technology transfer club.
- c. Formation of Farmers club
- d. Distance education through Directorate of Extension

Education, OUAT, Bhubaneswar.

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

| S. | Crop / | ITK Practiced | Purpose of ITK |
|-----|----------------|------------------------------------|-----------------------------|
| No. | Enterprise | | |
| 1 | Rice | Bitter gourd (Momordica charantia) | Repel insect pests in Paddy |
| | | leaves. | field. |
| 2 | French bean & | Dusting of ash | Controls aphids |
| | Country bean | | |
| 3 | Storage insect | Leaves of Begonia(Vitex negundo), | Insect pest repellent and |
| | pest | Karanja (Clisthathus sp.) and Neem | help to store paddy seeds |
| | | (Azadiracta indica) | for a longer period. |

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

- Farmer- Need assessment through focus group discussion and interview schedule.
- **Rural Youth-**Need assessment through market led demand study.
- In-service personnel- Interview schedule

3.11 Field activities- Continuing for the third year

- i. Number of villages adopted:
- ii. No. of farm families selected: 350
- iii. No. of survey/PRA conducted: 5

5

3.12. Activities of Soil and Water Testing Laboratory- Not Applicable Status of establishment of Lab :

- 1. Year of establishment
- 2. List of equipments purchased with amount :

| Sl. No | Name of the Equipment | Qty. | Cost |
|--------|-----------------------|------|------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| Total | | | |

:

:

3. Details of samples analyzed so far

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

4.0 IMPACT

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

| Name of specific technology/ skill | No. of | % of | Change in i | ncome (Rs.) |
|--|----------|----------|-------------|-------------|
| transferred | partici- | adoption | Before | After |
| | pants | | (Rs./Unit) | (Rs./Unit) |
| Preparation of compost under pit and heap | 40 | 30 | 8250 | Not |
| method | 40 | 50 | 8230 | recorded |
| Cultivation of hybrid sunflower | 40 | 35 | 7530 | Not |
| | 40 | | 7550 | recorded |
| IPM in paddy | 40 | 13 | 9583 | Not |
| II W III paddy | 40 | 15 | 9303 | recorded |
| IPM in green gram and Black gram | 40 | 15 | 6523 | Not |
| | 40 | 15 | 0525 | recorded |
| IPM in ground nut | 40 | 18 | 6425 | Not |
| | 40 | 10 | 0425 | recorded |
| Mechanisation farming for increasing | 40 | 10 | 7324 | Not |
| groundnut production | 40 | 10 | 1324 | recorded |
| In-situ rain water harvesting | 20 | 15 | 7528 | Not |
| | 20 | 15 | 1328 | recorded |
| Use of hand operated tubular maize sheller | 40 | 30 | 9272 | Not |
| | +0 | 50 |)212 | recorded |
| Use of ground nut decorticator | 40 | 38 | 8535 | Not |
| | +0 | 50 | 0555 | recorded |
| Cultivation of paddy straw mushroom | 40 | 30 | 9373 | Not |
| | +0 | 50 | 7515 | recorded |
| Cultivation of Dhingiri mushroom | 40 | 20 | 6385 | Not |
| | 40 | 20 | 0305 | recorded |
| Income generation through agarbati & | 40 | 13 | 6975 | Not |
| candle making | | 15 | 0775 | recorded |

| Name of specific technology/ skill | No. of | % of | Change in i | ncome (Rs.) |
|--|----------|----------|-------------|-------------|
| transferred | partici- | adoption | Before | After |
| | pants | | (Rs./Unit) | (Rs./Unit) |
| Use of Improved Sickle, Maize seller, | 40 | 30 | 5590 | Not |
| Groundnut decorticator(Drudgery reduction) | 40 | 30 | 5590 | recorded |
| Improved package of practices of | 40 | 22 | 1069 | Not |
| Cucurbits(Cucumber & Watermelon) | 40 | 33 | 1068 | recorded |
| Package of practices for Off-season | | | | NI-4 |
| vegetable cultivation (tomato & | 40 | 33 | 5540 | Not |
| cauliflower)-a remunerative enterprise. | | | | recorded |
| | 10 | 20 | | Not |
| Package of practices of capsicum | 40 | 20 | - | recorded |
| | 10 | _ | | Not |
| Cultivation of Kharif onion in uplands. | 40 | 5 | 6535 | recorded |
| | 10 | | 1200 | Not |
| Cultivation of wilt tolerant tomato | 40 | 45 | 6390 | recorded |
| Seed extraction of tomato and its marketing | | | | Not |
| for income generation | 40 | 15 | 7370 | recorded |
| ¥ | | | | Not |
| Repair and maintenance of diesel pumps | 20 | 10 | 9295 | recorded |
| Vegetable seed production for income | | | | 10001000 |
| generation | - | - | | |
| Sapling and graft production of fruit plants | | | | Not |
| (mango, guava, kagzi lime) | 20 | 10 | 10500 | recorded |
| Wilt management in Tomato, Chilli and | | | | Not |
| Brinjal | 40 | 55 | 9200 | recorded |
| | | | | Not |
| IPM in Toria | 40 | 25 | 8470 | recorded |
| Income generation through Mixture(snacks) | | | | Not |
| making | 20 | 20 | 11500 | recorded |
| Inaking | | | | Not |
| Improved Poultry farming | 20 | 15 | 6540 | recorded |
| Preservation of Fruit & Vegetables with | | | | Not |
| | 20 | 15 | 7475 | |
| special importance to pickle | | | | recorded |
| Nursery raising of vegetable & flowering | 40 | 5 | 8380 | Not |
| plants(Rose, Marigold, Tuberose) | | | | recorded |
| Cultivation of ginger and turmeric. | 40 | 12 | 12525 | Not |
| ND. Charld he haved on a strict study, suggition | | | | recorded |

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

4.2. Cases of large scale adoption – Not recoded so far.

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

• Training on drudgery reduction (Tubular maize sheller) was imparted to 25 participants. 60% adoption i.e. 15 participants adopted the practice and were benefited by using less labour during post harvest processing of maize. • Training on preparation of weaning mix was imparted to 50 lady participants and 80% adoption was seen i.e. 40 trainees prepared their own weaning mix and used for house hold consumption. Now they are planning to practice it on commercial scale.

5.0 LINKAGES

5.1 Functional linkage with different organizations

| Name of organization | Nature of linkage |
|---------------------------------------|--|
| 1. State dept. of Agril., Hort., Soil | Training and supply of seeds, grafts, seedling, |
| conservation and Animal husbandry | |
| 2. District Administration | Participation in Exhibitions, Krushak Sampark Melas |
| | and Trainings, District level development and strategy |
| | committee meeting |
| 3. ATMA | Programmes of ATMA (Training, Exposure visit, |
| | Demonstration, Farmer Scientist Interaction, workshop |
| | and Exhibition) |
| 4. NGO | Training, Exhibition, workshop and Agro Advisory |
| | centre |

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

| Name of the scheme | Date/ Month of initiation | Funding agency | Amount (Rs.) |
|--------------------|------------------------------|----------------|--------------|
| FLD(Maize) | July2008 | Govt. of India | 79200 |

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district

| S. No. | Programme | Nature of linkage | Remarks |
|--------|-----------------------------------|--------------------------------|---------|
| 1 | Farmers-Scientist Interaction | Resource person | - |
| 2 | Training & Demo. | Facilitators / Resource person | - |
| 3 | PPP mode demo (Crop substitution) | Resource person | - |
| 4 | Exposure visit | Information provider | - |

Yes

5.4. Give details of programmes implemented under National Horticultural Mission- Not Started

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

5.5 Nature of linkage with National Fisheries Development Board –Not Applicable

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

6. **PERFORMANCE OF INFRASTRUCTURE IN KVK**

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

| | | | | | , | |
|-----|------|------|------|-----------------------|--------------|---------|
| Sl. | Demo | Year | Area | Details of production | Amount (Rs.) | Remarks |

| No. | Unit | of estt. | | Variety | Produce | Qty. | Cost of inputs | Gross income | |
|-----|---------|----------|---|----------|---------|------|----------------|-----------------|--|
| 1 | Vermi | 2007 | - | Eusiniea | 5000 | - | 700 | 3000 | |
| | compost | | | fotida | | | | | |

6.2 Performance of instructional farm (Crops) including seed production

| | | | | | s of production | | | nt (Rs.) | |
|----------------------|----------------|--------------------|-----------|-----------|--------------------|-------|----------------------|-----------------|---------|
| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| Cereals (Paddy) | 09.07.07 | 24.11.07 | 0.8 | Pratikhya | Foundation | 22.5q | 18000 | 27630 | |
| Paddy | 27.6.08 | Standing crop | 0.8 | Pratikhya | Foundation | | | | |
| Pulses | - | - | - | - | - | - | - | - | - |
| Oilseeds (G. nut) | 09.07.07 | 22.10.07 | 0.4 | Smruti | Foundation | 2.2q | 7000 | 7520 | |
| G. nut | 26.6.08 | Standing crop | 0.4 | Smruti | Foundation | | | | |
| Fibers | - | - | - | - | - | - | - | - | - |
| Spices & Pla | ntation cro | ps | | | | | | | |
| Floriculture | - | - | - | - | - | - | - | - | - |
| Fruits | - | - | - | - | - | - | - | - | _ |
| Vegetables | - | - | - | - | - | - | - | - | - |
| Others (spec | l ify) | | | | | | | | |

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

| Sl. | | 0 | Amoun | | |
|---------|---------------------|-------|----------------|--------------|---------|
| No. Nai | Name of the Product | Qty | Cost of inputs | Gross income | Remarks |
| 1 | VermiCompost | 500kg | 800 | 4000 | - |

6.4 Performance of instructional farm (livestock and fisheries production)

| | | | | | | – Not Appl | icable |
|-----|------------------------------------|-----------------------|--------------------|------|-------------------|-----------------|---------|
| Sl. | Name | Details of production | | | Amour | | |
| No | of the animal / bird / aquatics | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| | | | | | | | |
| | | | | | | | |

6.5 Utilization of hostel facilities - Under construction Accommodation available (No. of beds) :

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|----------------|------------------------|----------------------------|-----------------------------------|
| October 2007 | | | |
| November 2007 | | | |
| December 2007 | | | |
| January 2008 | | | |
| February 2008 | | | |
| March 2008 | | | |
| April 2008 | | | |
| May 2008 | | | |
| June 2008 | | | |
| July 2008 | | | |
| August 2008 | | | |
| September 2008 | | | |

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Account Number | |
|---------------------|---------------------|-------------|----------------|--|
| With Host Institute | State Bank of India | Bhubaneswar | - | |
| With KVK | State Bank of India | Sundargarh | 10969167181 | |

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

| | Released by ICAR* | | Expe | nditure | Unspent balance as |
|----------------------|--------------------------|------------------|----------------|------------------|-------------------------------|
| Item | Kharif 2008 | Rabi 2008 -09 | Kharif 2008 | Rabi 2008 -09 | on 1 st April 2009 |
| Inputs | 0 | 0 | 30,033 | 2,307 | Nil |
| Extension activities | 0 | 0 | 0 | 0 | Nil |
| TA/DA/POL etc. | 0 | 0 | 0 | 0 | Nil |
| TOTAL | 0 | 0 | 30,033 | 2,307 | Nil |

*Adjusted in KVK contingency by order of authority.

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

| Item | Released by ICAR | | Expenditure | | Unspent balance as on | |
|--------|---------------------|-----------|-------------|----------|----------------------------|--|
| Item | Kharif | Rabi | Kharif | Rabi | 1 st April 2009 | |
| | 2008 | 2008 - 09 | 2008 | 2008 -09 | | |
| Inputs | 0 | 0 | 8,353 | 0 | Nil | |

| Extension activities | 0 | 0 | 0 | 0 | Nil |
|----------------------|---|---|-------|---|-----|
| TA/DA/POL etc. | 0 | 0 | 0 | 0 | Nil |
| TOTAL | 0 | 0 | 8,353 | 0 | Nil |

7.4 Utilization of funds under FLD on Cotton (*Rs. In Lakhs*) - Not applicable

| | Released | by ICAR | Expenditure | | Unspent |
|----------------------|----------|----------|-------------|---------|----------------------------|
| Item | Kharif | Rabi | Kharif | Rabi | balance as on |
| | 2008 | 2008 -09 | 2008 | 2008-09 | 1 st April 2009 |
| Inputs | | | | | |
| Extension activities | | | | | |
| TA/DA/POL etc. | | | | | |
| TOTAL | | | | | |

7.5 Utilization of KVK funds

Year 2007-08

| S.No | Particulars | Sanctioned | Released | Expenditure |
|-----------|--|------------|-------------|-------------|
| Α | Recurring Contingencies | | | |
| 1 | Pay and allowances | | 1391691 | 1391691 |
| 2 | Traveling Allowances | 63000 | 63000 | 46795 |
| 3 | Contingencies | | | |
| a. | Staionary, telephone, postage and other expenditure on office | 200000 | 187389 | 183583 |
| | running, publication of Newsletter and library maintenance | | | |
| | (Purchase of News Paper & Magazines) | - | | |
| b. | POLs, repair of vehicles, tractor and equipments | | | |
| с. | Meals/refreshments for trainees (ceiling upto Rs.40/day/trainee be | 350000 | 350000 | 269532 |
| | maintained) | | | |
| d. | Training material (poster, charts, demonstration material | | | |
| | including chemicals etc. required for conducting the training) | | | |
| e. | Front Line Demonstration except oilseeds and pulses (minimum | | | |
| | of 30 demonstration in a year) | | | |
| f. | On-Farm Testing (on need based, location specific and newly | | | |
| | generated information in the major production systems of the | | | |
| | area) | | | |
| g. | Training on extension functionaries | | | |
| h. | Maintenance of building | | | |
| i. | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| j. | Library | | | |
| | TOTAL (A) | | 1992080 | 1891601 |
| B. | Non-Recurring Contingencies | | | |
| (i) | Works | | | |
| (ii) | Equipments including SWTL & Furniture | 95000 | 85899 | 84490 |
| (iii) | Vehicle (Four wheeler/ Two wheeler, please specify) | | | |
| (iv) | Library (Purchase of assets like books & journals) | | | |
| | TOTAL (B) | 95000 | 85899 | 84490 |
| C. | REVOLVING FUND | 0 | 0.61818 | 0.23373 |
| | | | (OB) | |
| | GRAND TOTAL (A+B+C) | | | |

Year 2008-09

(Rs. in lakhs)

| <i>a</i> | | | (| s. in takns) |
|----------|--|------------------|----------|--------------|
| S.No | Particulars | Sanctioned | Released | Expenditure |
| Α | Recurring Contingencies | | | |
| 1 | Pay and allowances | | | |
| 2 | Traveling Allowances | 0.80 | 0.80 | 0.6536 |
| 3 | Contingencies | | | |
| a. | Staionary, telephone, postage and other expenditure on office | 2.00 | 2.0685 | 2.06778 |
| | running, publication of Newsletter and library maintenance | | | |
| 1 | (Purchase of News Paper & Magazines) | - | | |
| b. | POLs, repair of vehicles, tractor and equipments | 4.00 | 1.00 | 2 52502 |
| c. | Meals/refreshments for trainees (ceiling upto Rs.40/day/trainee be maintained) | 4.00 4.00 2.5350 | | 2.53502 |
| d. | Training material (poster, charts, demonstration material including chemicals etc. required for conducting the training) | | | |
| e. | Front Line Demonstration except oilseeds and pulses (minimum | 1 | | |
| | of 30 demonstration in a year) | | | |
| f. | On-Farm Testing (on need based, location specific and newly | | | |
| | generated information in the major production systems of the | | | |
| | area) | | | |
| g. | Training on extension functionaries | | | |
| h. | Maintenance of building | | | |
| i. | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| j. | Library | | | |
| | TOTAL (A) | 6.80 | 6.8685 | 5.2564 |
| В. | Non-Recurring Contingencies | | | |
| (i) | Works | | | |
| (ii) | Equipments including SWTL & Furniture | 4.00 | 4.00 | 4.00 |
| (iii) | Vehicle (Four wheeler/ Two wheeler, please specify) | | | |
| (iv) | Library (Purchase of assets like books & journals) | | | |
| | TOTAL (B) | 4.00 | 4.00 | 4.00 |
| C. | REVOLVING FUND | | | |
| | GRAND TOTAL (A+B+C) | 10.80 | 10.8685 | 9.2564 |

Status of revolving fund (Rs. In lakhs) for the last three years

| Year | Opening balance as on 1 st April | Income during the year | Expenditure during the year | Net balance in hand as on 1 st April of each year |
|-------------|--|---------------------------|--------------------------------|---|
| 2006 - 2007 | 0.44869 | 0.45254 | 0.26659 | 0.61818 |
| 2007-2008 | 0.61818 | 0.43828 | 0.23373 | 0.82273 |
| 2008-2009 | 0.92207 | 0.54817 | 0.77819 | 0.69255 |

8.0 Please include information which has not been reflected above

8.1 Constraints

| Sl. No. | Type of constraints | Action |
|------------|---------------------|--|
| a. | Administrative | 1. Following vacant posts need to be filled up |
| | | • Subject Matter Specialist-02 (Preferably one from Ag. Engg./ Animal Science & one from Home Sc.) |
| | | • Jr. Steno-cum-Computer Operator-01 |
| | | Programme Assistant -01 |
| | | 2. Extension of existing administration building. |
| | | 3. Construction of 3R quarters-4 nos., 2R quarters-1 and 1R 2 nos. |
| | | Electrical & P.H. fitting in the existing administrative building ,staff quarters and campus |
| | | 5. Generator 2KW |
| b. | Technical | • Construction of boundary wall (2000m) |
| | | • Installation of energised deep tube well and irrigation channel(500 m) |
| | | • Training hall |
| | | • Tractor with farm implements(Trolley, Disc plough, cultivator, axial flow thresher, inclined plate planter and rotavator |
| c. | Financial | • Budget provision in R.E for POL and office expenses should be increased. |
| | | • Expenditure per trainee @ Rs. 40/-per day is very less. Need to be revised. |
| | | • Budget provision of TA and DA for extension functionaries during training. |

(Signature of Programme Coordinator)