KRISHI VIGYAN KENDRA NAYAGARAH

Annual Report 2007-08

(01.4.2007 TO 31.03.2008)



ORISSA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY BHUBANESWAR-751003

PROFORMA FOR ANNUAL REPORT

(1-4-2007 to 31-03-2008)

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 | | ie | E mail |
|-------------------|----------------------------------|----------------|---|-----|---------------------------|
| | | STD Office FAX | | FAX | |
| Krishi Vigyan | At – Panipoila, P.O – Balugaon, | - | - | - | nayagarhkvk@yahoo.co.in |
| Kendra, Nayagarh, | Dist – Nayagarh, State – Orissa, | | | | nayagarhkvk@rediffmail.co |
| Orissa | Pin – 752070 | | | | |

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

| Host Institute | Postal Address with Pin code | Telephone | | | E mail |
|-----------------------|------------------------------|-----------|---------|---------|----------------------|
| name | | STD | Office | FAX | |
| Orissa | P.O. – Bhubaneswar, Dist – | 0674 | 2402677 | 2407780 | ouatmain@hotmail.com |
| University of | Khurda, State – Orissa, | | | | |
| Agriculture & | Pin – 751003 | | | | |
| Technology | | | | | |

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

| Name | Telephone / Contact | | | | |
|------------------------|---------------------|------------|-------|--|--|
| | Residence | Mobile | Email | | |
| Dr. Prasannajit Mishra | - | 9437406114 | - | | |
| | | | | | |

1.4. Year of sanction: 29.05.2004 (F.NO.2-10/98 AE II, Dt29.05.04 of ICAR)

1.5. Staff Position (as on 31st March 2008)

| Sl. No. | Sanctioned post | Name of the incumbent | Designation | Discipline | Pay Scale with present basic | Date of joining | Permanent /Temporary | Category (SC/ST/ OBC/ Others) |
|------------|--------------------------------|------------------------|--------------------------------|---------------------|------------------------------------|-----------------|-------------------------|--|
| 1 | Programme Coordinator | Dr. P. J. Mishra | Programme Coordinator | Agronomy | 12,000-18,3000 13,680/- | 01.07.07 | Temporary | Gen |
| 2 | Subject Matter Specialist | Mr. P. K. Banerjee | SMS | Extn. Edn. | 12,000-18,3000 15,360/- | 11.02.05 | Temporary | Gen |
| 3 | Subject Matter Specialist | Dr. G. Das | SMS | Horticulture | 8,000-13,500 8,550/- | 24.01.05 | Temporary | Gen |
| 4 | Subject Matter Specialist | Mrs. G. Subudhi | SMS | Home Sc. | 8,000-13,500 8,550/- | 25.02.05 | Temporary | Gen |
| 5 | Subject Matter Specialist | Mr. A. K. Swain | SMS | Fisheries | 8,000-13,500 8,550/- | 11.03.05 | Temporary | Gen |
| 6 | Subject Matter Specialist | Mr. P. K. Prusty | SMS | Plant Prot. | 8,000-13,500 8,275/- | 22.08.06 | Temporary | Gen |
| 7 | Subject Matter Specialist | Mr. S. Nayak | SMS | Forestry | 8,000-13,500 8,275/- | 22.12.06 | Temporary | Gen |
| 8 | Programme Assistant | Mr. B. K. Parimanik | Prog. Asst. | Forestry | 5,500-9,000 5,675/- | 16.10.06 | Temporary | Gen |
| 9 | Computer Programmer | Miss. R. Praharaj | Prog. Asst. | Computer | 5,500-9,000 5,675/- | 10.03.06 | Temporary | Gen |
| 10 | Farm Manager | Miss. R. K. Bhol | Farm Manager | Plant Physiology | 5,500-9,000 5,675/- | 25.08.06 | Temporary | Gen |
| 11 | Accountant / Superintendent | Mr. B. N. Mohanty | Accountant / Superintendent | - | 5,900-9,000 7,100/- | 17.07.06 | Temporary | Gen |
| 12 | Stenographer | Mr. A. Patnaik | Steno cum Comp. Ope. | Stenographer | 4,000-6,000 4,000/- | 06.07.07 | Temporary | Gen |
| 13 | Driver | Mr. P. K. Barik | P.L. working against driver | - | 2,550-3,200 3,200/- | 02.05.05 | Temporary | OBC |
| 14 | Driver | Mr. U. Das | Driver | - | 3,050-4,590 4,210/- | 01.03.06 | Temporary | Gen |

| 15 | Supporting staff | Sri.Gunanidhi Bauta | Peon/Watchman | - | 2,550-3,200 | 19.12.07 | Temporary | Gen |
|----|------------------|------------------------|---------------|---|-------------|----------|-----------|-----|
| 16 | Supporting staff | Ri.Prasanna Martha | Peon/Watchman | - | 2,550-3,200 | 19.12.07 | Temporary | Gen |

1.6. Total land with KVK (in ha):

| S. No. | Item | Area (ha) |
|--------|---------------------------|-----------|
| 1 | Under Buildings | 1.50 ha. |
| 2. | Under Demonstration Units | 0.40 ha. |
| 3. | Under Crops | 2.00 ha. |
| 4. | Orchard/Agro-forestry | 6.50 ha. |
| 5. | Others | 11.33 ha. |

1.7. Infrastructural Development:

A) Buildings

| | Dundings | Source | | | Sta | age | | |
|-----|---------------------------------|---------|--------------------|--------------------------|-------------------|------------------|--------------------------|------------------------|
| S. | | of | Complete | | | Incomplete | | |
| No. | Name of building | funding | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1. | Admin. Building | ICAR | Feb. 08 | - | - | - | - | - |
| 2. | Farmers Hostel | ICAR | - | - | - | 2007 | 300 | Under cons |
| 3. | Staff Quarters (6) | | - | - | - | - | - | - |
| 4. | Demo. Units (2) | | - | - | - | - | - | - |
| 5 | Fencing | ICAR | - | - | - | 2007 | 6 Ac. | Under cons |
| 6 | Rain Water harvesting system | | - | - | - | - | - | - |
| 7 | Threshing floor | ICAR | 2006 | 225 | Completed | - | - | - |
| 8 | Farm godown | | - | - | - | - | - | - |

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|-------------------------|------------------|------------|----------------|-------------------|
| TATA SUMO (Jeep) | 2005 | 4,42,673 | 47045 | Running condition |
| Tractor with implements | 2005 | 4,88,247 | 126.8 Hr | Running condition |

C) Equipments & AV aids

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|-----------------------------|------------------|------------|-------------------|
| Computer | 2005 | 69,450 | Running condition |
| Laptop & LCD Projector | 2007 | 99,642 | Running condition |
| Digital copier with printer | 2008 | 56,259 | Running condition |
| Digital camera | 2008 | 9,490 | Running condition |
| Public address system | 2008 | 18,640 | Running condition |

1.8. A). Details SAC meeting conducted in the year (1.4.07-31.3.08):

Details of SAC Recommendations held on dt.26.10.07

- 1. Demonstration of integrated farming system and cropping system models in the district to achieve food security and maximizing profit.
- 2. Development of agro based employment generating avenues for ensuring at least 100 days engagement of agriculture workers in the year.
- 3. Promote crop intensification programme around water harvesting structures.
- 4. Encourage farmers to synchronize planting period of vegetables and fruits with market demand in the district.

- 5. Support the SHGs of sugarcane growers in the district for increase in area, production and productivity of sugarcane.
- 6. Encourage progressive farmers to develop hatchery for supply of fish fry in the district.
- 7. Create awareness among farming community to adopt organic farming.
- 8. Promote tissue cultured sugarcane plants and feasibility study of cane cultivation during kharif season.
- 9. Popularization of paddy straw and dhingri mushroom cultivation as a self employment enterprise.
- 10. Conduct micro level analysis of farming situation in the KVK operational areas.
- 11. Subscribe to important journals for updating knowledge of scientists.
- 12. Strengthen cooperation with all line departments in the district.
- 13. Promote value addition to agricultural produce.
- 14. Create one or two ideal village(s) with cooperation of all line department personnel.
- 15. Documentation of success stories with detailed economics and photographs.

2. DETAILS OF DISTRICT (2007-08):

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

| S. | Farming system/enterprise |
|----|---|
| No | |
| 1. | Crop Enterprises - (Paddy, Sugarcane, Greengram, Blackgram, Colocasia & Seasonal vegeteables, Ground nut, Sunflower, Toria), Sugarcane – fallow, Paddy – Greengram, paddy – Blackgram, paddy – Sunflower, paddy – vegetables, paddy – Groundnut, paddy – Toria Horticultural crops – Mango, Papaya, Guava, Cashew, and Banana Other Enterprises – Dairy, Fishery, Goatery, and poultry. |
| 2. | Water scarcity, mostly used for direct seeded kharif paddy / kharif groundnut / vegetable Used for transplanted paddy and sugarcane cultivation in kharif and blackgram / greengram in rabi. |
| 3. | Long duration kharif paddy follwed by paira cropping of greengram / blackgram. Paddy followed by pulses / vegetables / sunflower / groundnut Direct seeded short duration kharif paddy / Kharif vegetables |

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

| Sl. No | Agro-climatic | Characteristics |
|--------|-------------------------------|---|
| | Zone | |
| 1. | East and South | Situated between 20.5'N to 20.24'N latitude and 85.5'E to 85.12'E longitude. |
| | Eastern Coastal Plane Zone | The geographical area of the district is 4242 sq.km. (4, 24,200ha) of which 1, |
| | | 36,841 ha are under cultivation. Out of three types of cultivated area, high land |
| | | consists of 33% (45ha); medium land 39% (ha) and low land 28% (37ha).The |
| | | area of the district can be characterized as rain fed with low irrigation potential |
| | | and major portion falling under hilly terrains, high lands & forests. The soil is |
| | | alluvial, red, mixed red and black types; average annual rainfall 1449mm. and |
| | | the cropping intensity is 174%. |

| S. No | Agro | Characteristics |
|---------------------------------|--|---|
| | ecological situation | |
| 1 2 3 4 5 6 7 | Situation - I Situation - II Situation - IV Situation - IV Situation - V Situation - VI Situation - VI | Rain fed up-land with red soil. Rain fed medium land with alluvial soil. Rain fed low land with alluvial soil. Irrigated medium land with alluvial soil. Drought prone hilly terrains. Flood prone medium and low land. Water logged areas and water bodies. (WHS, ponds, reservoirs) |

2.3 Soil type/s

| S. No | Soil type | Characteristics | Area in ha |
|----------|--------------------|--------------------------|------------|
| 1 | Red soil | Low soil fertility, poor | 396000 ha |
| | Red laterite soils | drainage, soil erosion | |
| | Alluvial soil | | |

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

| S. No | Crop | Area (ha) | Production (Qtl) | Productivity (Qtl /ha) |
|----------|--------------------------|-----------|------------------|------------------------|
| Kha | rif | | | |
| 1 | Paddy (local) | 18981 | 364800 | 19.2 |
| 2 | Paddy (hyv) | 79019 | 2009180 | 25.4 |
| 3 | Maize (local) | 765 | 17750 | 23.2 |
| 4 | Maize HYV) | 3588 | 137490 | 38.3 |
| 5 | Ragi | 653 | 8030.3 | 12.3 |
| 6 | Moong | 504 | 1880.2 | 3.7 |
| 7 | Biri (Urad) | 5896 | 22010 | 3.7 |
| 8 | Arhar | 1326 | 8210 | 6.1 |
| 9 | Groundnut | 729 | 10210 | 14 |
| 10 | Sesamum | 4640 | 12800 | 2.7 |
| 11 | Castor | 49 | 170 | 3.4 |
| 12 | Total Oilseeds | 5426 | 23160 | 4.2 |
| 13 | Mesta | 597 | 1910 | 3.4 |
| 14 | Sunhemp | 160 | 480 | 3 |
| 15 | Ginger | 101 | 1820 | 18 |
| 16 | Turmeric | 241 | 3810 | 15.8 |
| 17 | Chillies | 651 | 6640 | 10.2 |
| 18 | Total condiment & spices | 1003 | 12150 | 12 |
| Rab | i | | • | <u> </u> |
| 1 | Wheat | 75 | 898 | 10.64 |
| 2 | Paddy(HY) | 168 | 4690 | 27.91 |
| 3 | Maize (HYV) | 124 | 4400 | 35.48 |
| 4 | Moong | 32523 | 70800 | 2.17 |
| 5 | Biri (Urad) | 8326 | 20170 | 2.42 |
| 6 | Kulthi | 5695 | 14060 | 2.47 |
| 7 | Gram | 102 | 350 | 3.40 |

| 8 | Field pea | 202 | 950 | 4.7 |
|----|-----------|------|---------|-------|
| 9 | Groundnut | 380 | 4520 | 11.92 |
| 10 | Sesamum | 1813 | 3810 | 2.10 |
| 11 | Castor | 21 | 80 | 3.7 |
| 12 | Sunflower | 221 | 1300 | 5.8 |
| 13 | Mustard | 1674 | 2060 | 1.1 |
| 14 | Linseed | 590 | 1560 | 2.60 |
| 15 | Safflower | 12 | 50 | 4.16 |
| 16 | Potato | 157 | 6350 | 40.44 |
| 17 | Sugarcane | 4447 | 3246880 | 730 |
| 18 | Onion | 561 | 30710 | 54.74 |
| 19 | Garlic | 253 | 9840 | 38.8 |
| 20 | Coriander | 229 | 1010 | 4.4 |
| 21 | Chillies | 258 | 2000 | 7.7 |

2.5. Weather data

| Month | Rainfall | Tempe | erature ⁰ C | Relative Humidity (%) |
|----------|----------|---------|------------------------|-----------------------|
| | (mm) | Maximum | Minimum | |
| April'07 | 11 | 39.2 | 34.0 | 61.9 |
| May'07 | 58 | 40.6 | 35.5 | 63.4 |
| June'07 | 345 | 38.2 | 34.1 | 72.0 |
| July'07 | 145.8 | 35.9 | 32.0 | 78.9 |
| Aug'07 | 286.48 | 34.1 | 31.0 | 86.6 |
| Sept'07 | 404.15 | 32.7 | 31.5 | 84.5 |
| Oct.'07 | 54.38 | 29.23 | 25.32 | 77.81 |
| Nov.'07 | 0.5 | 28.04 | 22.22 | 70.49 |
| Dec'07 | 0 | 24.67 | 19.72 | 58.29 |
| Jan'08 | 14.45 | 25.06 | 18.87 | 80.16 |
| Feb'08 | 5.9 | 27.74 | 20.32 | 73.31 |
| March'08 | 14.94 | 32.15 | 25.18 | 56.68 |

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

| Category | Population | Production | Productivity |
|------------|------------|-------------|--------------|
| Cattle | | | |
| Crossbred | 3277 | 15.75th.MT | - |
| Indigenous | 84062 | - | - |
| Buffalo | 8582 | - | - |
| Sheep | | | |
| Crossbred | - | - | - |
| Indigenous | - | - | - |
| Goats | 97017 | 1030 | - |
| Pigs | 54 | - | - |
| Crossbred | - | - | - |
| Indigenous | - | - | - |
| Rabbits | - | - | - |
| Poultry | | | |
| Hens | 104875 | 9.92 M eggs | - |
| Desi | - | - | - |
| Improved | - | - | - |

| Ducks | 1024 | - | - |
|-------------------|------------|------------|--------------|
| Turkey and others | - | - | - |
| Fish | 5728.77На | 6330 MT | 1.1 MT |
| Marine | - | - | - |
| Inland | 5728.77На | 6330 MT | 1.1 MT |
| Prawn | 2507.00На | 2 MT | 0.0008 MT |
| Scampi | 2507.00На | 1 MT | 0.0004 MT |
| Shrimp | - | - | - |
| Category | Population | Production | Productivity |
| Cattle | • | <u>.</u> | · |
| Crossbred | 3277 | 15.75TMT | |
| Indigenous | 84062 | | |
| Buffalo | 8582 | | |
| Sheep | • | <u>.</u> | |
| Crossbred | | | |
| Indigenous | | | |
| Goats | 97017 | 1030 | |
| Pigs | 54 | | |
| Crossbred | | | |
| Indigenous | | | |
| Rabbits | | | |
| Poultry | 104875 | 9.9 | 2M eggs |
| Hens | | | |
| Desi | | | |
| Improved | | | |
| Ducks | 1024 | | |
| Turkey and others | | | |
| Fish | 5728.77На | 6330 MT | 1.1 MT |
| Marine | = | = | - |
| Inland | 5728.77Ha | 6330 MT | 1.1 MT |
| Prawn | 2507.00На | 2 MT | 0.0008 MT |
| Scampi | 2507.00На | 1 MT | 0.0004 MT |
| Shrimp | - | - | - |

Details of Operational area / Villages (2007-08)

| Sl. No. | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|------------|------------|-------------------|--|--|---|---|
| 1. | Nayagarh | Nayagarh | Kantabania, Koska Panipoila Barabati Narialli Balugaon Khedapada | Sugarcane, paddy, groundnut, banana, mushroom, fresh water prawn ornamental fish, backyard poultry | Reduction in cane yield due to borer damage Increasing cost of production and reducing yield response High production cost and low pod yield due to initial weed infestation Low yield from traditional types with damage due to winds. Non / underutilization of paddy straw and sugarcane baggage. Low income from fish culture with less export value No income from backyard of house | High rate of borer infestation in sugarcane Less use of organic manure Low yield of groundnut Development of high yielding Tissue cultured banana plantation Income generation activities for empowerment of rural women Scientific culture practice with pond and tank based freshwater Unemployed rural youths with non professional avenue income generation |
| 2 | Khandapada | Khandapada | Biridihi, Ranipada | Paddy, sugarcane, , banana, mango | Reduction in cane yield due to borer damage Increased cost of production and reduced yield response High production cost and low pod yield due to initial weed infestation Low yield from traditional types with damage due to winds. Old and sick orchards bear little or no fruits | High rate of borer infestation in sugarcane Less use of organic manure Low yield of groundnut Development of high yielding Tissue cultured banana plantation Low yield from old and traditional orchards |

| 3 | Nuagaon | Nuagaon | Khanguri, lingiribari, bakalbandha, kanigiri | Sugarcane, paddy, groundnut, banana, mushroom, fresh water prawn ornamental fish, backyard poultry Yam and elephant foot yam | Reduction in cane yield due to borer damage Increased cost of production and reduced yield response High production cost and low pod yield due to initial weed infestation Low yield from traditional types and damage by winds. No /underutilization of paddy straw and sugarcane baggage. Low income from fish culture with less export value No income from backyard of house Acrid quality of local cultivars and low yield of yam and EFY | High rate of borer infestation in sugarcane Less use of organic manure Low yield of groundnut Development of high yielding Tissue cultured banana plantation Income generation activities for empowerment of rural women Scientific culture practice with pond and tank based freshwater Unemployed rural youths with non professional avenue for income generation. High return from improved tuber crops |
|---|---------|---------|---|--|--|--|
| 4 | Bhapur | Bhapur | Rampada | mushroom, fresh water prawn | Low income from fish culture with less export value | Scientific culture practice with pond and tank based freshwater |
| 5 | Odogaon | Odagaon | Hariharpur, Godipalli | Sugarcane, paddy, groundnut, banana | Reduction in cane yield due to borer damage Increasing cost of production and reducing yield response High production cost and low pod yield due to initial weed infestation Low yield from traditional types with damage due to windsNo/ underutilization of paddy straw and sugarcane baggage. Low income from fish culture with less export value No income from backyard of house Acrid quality of local cultivars and low yield | High rate of borer infestation in sugarcane Less use of organic manure Low yield of groundnut Development of high yielding Tissue cultured banana plantation Income generation activities for empowerment of rural women Scientific culture practice with pond and tank based freshwater Unemployed rural youths with non professional avenue income generation High return from improved tuber crops |

| 6 | Daspalla | Daspalla | Tumandi, janisahi, madhyakhanda, Dakabara | Sugarcane, paddy, groundnut, banana, mushroom, fresh water prawn ornamental fish, backyard poultry Yam and elephant foot yam | Reduction in cane yield due to borer damage Increasing cost of production and reducing yield response High production cost and low pod yield due to initial weed infestation Low yield from traditional types with damage due to winds. No/ underutilization of paddy straw and sugarcane baggage. Low income from fish culture with less export value No income from backyard of house Acrid quality of local cultivars and low yield from yam and EFY | High rate of borer infestation in sugarcane Less use of organic manure Low yield of groundnut Development of high yielding Tissue cultured banana plantation Income generation activities for empowerment of rural women Scientific culture practice with pond and tank based freshwater Unemployed rural youths with non professional avenue income generation High return from improved tuber crops |
|---|----------|----------|--|--|---|---|
| 7 | Ranpur | Ranpur | Akhupadar | banana, paddy, moong, blackgram, vegetable | Low yield from traditional types with damage due to winds. | Tissue cultured banana plantation |

2.7 Priority thrust areas

| . <u>7 Priorit</u> | y thrust areas |
|--------------------|---|
| S. No | Thrust area |
| 1. | Varietal substitution in paddy, particularly for rainfed upland and medium land types. |
| 2. | Crop diversification from paddy to pulse (Arhar), oilseed (Sunflower, ground nut) sugarcane and |
| | tuber crop based cropping systems |
| 3. | Integrated nutrient management by incorporation of crop residues/forest litters, green manuring, |
| | improvised composting and balanced use of inorganic and biofertilisers. |
| 4. | Popularizing ecofriendly pesticides and biocontrol agents and IPM practices for borers in sugarcane |
| | and brinjal. |
| 5. | Revolutionizing fresh water fish farming by including freshwater prawn (Scampi) in Composite |
| | pisciculture system. |
| 6. | Empowerment of rural youth and SHGs through remunerative agro based enterprises like value |
| | addition of fruits and vegetables, mushroom production, bee keeping, floriculture and poultry |
| | farming. |
| 7. | Rejuvenating mango and cashew orchards and developing Alternative Land Use system model. |
| 8. | Scientific method of fish production with freshwater prawn culture, integrated farming system |
| | research and ornamental fish culture |
| 9. | Income generation from backyard poultry for economic upliftment. |
| | |

3. TECHNICAL ACHIEVEMENTS

3.1. A. Abstract of interventions undertaken

| | | | | | | Interventions | | | |
|-----------|---|---|---|--|---------------------------------|---|--|--|--|
| Sl. No | Thrust area | Crop/ Enterprise | Identified 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. | Low yield of groundnut, colocassia | Groundnut | High production cost | Weed control in colocassia | Weed control in groundnut | Integrated weed control in groundnut IPM in pulses Use of bio inoculants in pulses | - | Group meeting, personal contact | Seeds, herbicides |
| 2. | Low productivity of paddy | Paddy | Increasing cost of production and reducing yield response | System of rice intensification | - | - | - | Group meeting, personal contact | Seeds |
| 3. | Intercropping system | Intercrops | Mono cropping failure occurs in rainfed upland. Intercrops will be an insurance against failure of main crop and judicious utilization of land. | - | - | Intercropping in rainfed upland kharif paddy | Farming system approach in organic farming. | - | |
| 4. | Low cost of inputs in sugarcane | Sugarcane | Low yield in sugarcane | Method of planting in sugarcane | - | Planting technique in sugarcane | Sugarcane production technology | - | - |
| 5. | Organic fertilizer production | Vermicompost, organic waste recycling, Azolla, BGA | Farmers are not well conversant with the production technology of organic fertlisers | - | Enrichment of rural compost. | Vermicompost production technology Organic waste recycling and production of enriched compost. Production and marketing of azolla and BGA | - | - | - |
| 6. | Less use of organic manure | Paddy | Poor crop yield due to low nitrogen deficiency | Green manuring in rainfed medium land paddy. | Green manuring in lowland paddy | Green manuring in direct seeded kharif paddy | Nutrient mgmt in organic farming | Group meeting, persuasion & personal contact | Seed of dhanicha, vermicompost |
| 7. | Less fertiliser use efficiency in paddy , sugarcane and moong | Paddy Sugarcane moong | Nitrogen loss by application of Urea Less fertiliser use efficiency in moong | - | Fertiliser management in moong. | Nitrogen mgmt inspring planted sugarcane Use of fertilizer broadcaster | Management of acid soil | Group meeting | Nimin |

| 8. | Seed production | Sunflower | Low seed setting | - | - | Hand pollination to Increase seed setting in sunflower | - | - | - |
|-----|--|-------------------|---|--|--|---|---|---|---|
| 9. | Low yield of groundnut, Sugarcane, pulses | sugarcane | High production cost and low pod yield due to initial weed infestation and pest incidence. | Weed management in greengram. | Weed control in sugarcane. | Integrated weed mgmt in spring planted sugarcane | - | Group discussion | Herbicide |
| 10. | Development of high yielding Tissue cultured banana plantation | Banana | Low yield from traditional types with damage due to winds. | - | Tissue cultured Banana plantation | | - | Night meeting & discussion | Tissue cultured banana saplings |
| 11. | Introduction of high variety of Ginger & turmeric | Ginger & turmeric | Very low yield from traditional variety with high fiber content and no use of orchard space | Performance of different crops under shade | Varietal substitution in turmeric Varietal substitution in ginger | Value addition of turmeric through curing Raised bed planting of ginger and turmeric. | - | Village survey and field visit | Supply of Ranga, Rasmi, roma and Suroma high yielding variety of turmeric |
| 12. | Rejuvenation of old and senile mango orchards | Mango | Old and senile orchards bear little or no fruit | - | - | Rejuvenation of old and sick mango orchards | Orchard mgt. with particular reference to rejuvenation of old orchards | Survey, field visit and discussion | - |
| 13. | Control of fruit drop in coconut | Coconut | High fruit drop incidence in coconut | - | Introduction of hybrid coconut | - | - | Survey, field visit and discussion | Hybrid coconut saplings |
| 14. | Cashew orchard mgt. | Cashew nut | Poor mgt. of cashew orchards with no use of intercropping space | Intercropping in cashew orchards | - | Care and maintenance of existing cashew orchards | - | Survey, field visit and discussion | Supply of cassava seedlings |
| 15. | Employment generation for unemployed rural youth | - | Low employment rate of rural youth | - | - | 1. Propagation technique for raising improved fruit saplings. | Commercial floriculture | Survey, field visit and discussion, Film show | Supply of quality vegetable seedlings and saplings of mango and papaya. |

| 16. | Off season vegetable cultivation | Vegetables | Low return from seasonal crop | - | - | 1. Raising of kharif onion 2. Raising of cauliflower/cabbage as a cash crop | Protected cultivation of high value offseason crop. | Survey, field visit and discussion, Discussion with marketing channel operatives | Supply of quality vegetable seedling |
|-----|---|---------------------------|--|--|--|---|--|--|---|
| 17. | Hybrid papaya cultivation | Papaya | High percentage of male and low yield from traditional variety | - | Introduction of hybrid papaya (Red lady) | - | - | Survey, field visit and discussion, Film show | Red lady saplings |
| 18. | Control of wilt in brinjal | Brinjal | Wilting a major problem | Performance of wilt resistance high yielding variety of brinjal | - | Wilt management in solanaceae crops. | - | - | seedling |
| 19 | High return from improved tuber crops | Yam, Elephant foot yam | Low yield from traditional and non acrid varieties | - | 1. Introduction of improved yam 2. Introduction of Elephant foot yam | - | - | Survey, field visit and discussion, Film show | Supply of Hatikhojia and Gajendra |
| 20 | High return from organically produced products | - | Low yield and damage to soil due to excessive use of in- organic fertilizers and chemicals | - | - | - | Organic vegetable production Use of bio pesticides and botanicals for pest mgmt. on organic farming. | Group discussion and persuasion | - |
| 21 | Large scale of damage in cauliflower | Cauliflower | DBM is the serious pest which threatens cole crop cultivation in the locality. | - | - | Pest mgmt. in cole crops | - | Group discussion | Chemicals |
| 22 | Involve high cost in weed mgt. of groundnut | Groundnut | High mortality due to fungal wilt at early stages of crop growth | Biological control of groundnut wilt | - | Wilt mgt. in groundnut | - | Group discussion | Bio-pesticide |
| 23 | High cost involvement with chemical control of stem borer | Paddy | Reduction of yield due to stem borer attack | - | - | Management of stem borer in paddy | - | Group discussion | Bio-agents |

| 24 | High rate of borer | Sugarcane | Reduction in cane yield | Management of termite | Biological control of | IPM in sugarcane | - | Group | Bio-agents |
|-----|---|---|---|------------------------|--|--|---|--|--|
| 25 | infestation in sugarcane Injudicious use of chemical pesticides increases fruit and fruit borer attack in brinjal. Wilting is a major threat. | Brinjal | due to borer damage Yield reduction and poor market value due to fruit and shoot borer attack. High mortality due to wilting. | and early shoot borer. | sugarcane borers IPM for fruit and shoot borer and wilt comlex in brinjal | Pest mgmt in sugarcane IPM for fruit and shoot borer in brinjal IPM in brinjal | - | discussion Group discussion | Bio-pesticides & eco friendly chemicals |
| 26. | Mgt. of field rats | Mgt. of field rats | Large scale of crop damage due to field rats | - | Mgt. of field rats | Rodent Management in Agriculture Control of house and field rats | | News paper – 1 | Zinc phosphide, |
| 27 | Low yield of paddy | Paddy | Decline in productivity of existing paddy variety due to poor NUE and increasing pest menace | - | Production stability and profit maximization in medium land paddy | IPM for control in BPH in rice | | Group discussion | Botanicals, Bio-agents and eco friendly pesticide |
| 28 | Scientific culture practice with pond and tank based freshwater | Freshwater prawn (Scampi) | Low income from fish culture with less export value | - | Freshwater prawn culture | Freshwater prawn culture | - | Exposure visit, video show | M rosenbergii (Scampi) seed |
| 29 | Unemployed rural youths with non professional avenue income generation | Ornamental fish | Nil income from backyard of house | - | Ornamental fish culture | Ornamental fish culture Preparation of aquarium | - | Booklet on ornamental fish, Personal contact | Ornamental fish as brooder. |
| 30 | Integrated farming system resources for agricultural allied activities along with pisciculture | Fish fingerling Duckery Tissue culture banana papaya Hybrid coconut | Low income from pond based pisciculture unit | - | Pond based farming system | Integrated fish and prawn culture Pond development and management in fish culture | - | Video show, group discussion | Fingerling(IM C) Duckery Tissue culture banana(Bantal a Papaya,cocon ut |
| 31 | Water resources for multiple fish culture | Fish yearling | Low income from single culture practice | - | - | Fish fry, fingerling and yearling production | - | Discussion in Krishi sampark melas | - |
| 32 | Removal of predatory fishes, feed management enhanced fish prodn. | Indian major carps and exotic carps | Low yield from fish mortality and no supplementary feed | - | - | Predatory and weed fish management Feeding management in fish pond Aquatic weed control. Control of EUS. | - | Group discussion | - |
| 33 | Backyard poultry rearing | Vanaraja dual purpose poultry | Low yield in terms of meat and egg from desi birds | - | Backyard poultry rearing | Backyard poultry. | - | Motivation and personal contact | Vanaraja chicks of 21 days old |

| 34 | Income generation activities for rural women Value addition to | Mushroom | No/ underutilization of paddy straw and sugarcane baggage. High market demand Under utilization of leisure time of housewives. | Alternate substrates for paddy straw mushroom production. Performance of paddy straw mushroom under orchard shades. | Cultivation of paddy straw mushroom Introduction of oyster mushroom | Commercial cultivation of paddy straw mushroom Commercial cultivation of oyster mushroom Mushroom production for rural employment. Value addition to tomato | - | T.V talk, Group discussion, personal visits and persuasion | Spawn and polythene. |
|----|---|---|--|---|---|--|---|---|---|
| 35 | value addition to vegetables | | Market value goes down at peak period of production season. | - | - | | - | contact, farm and home visits | and edible colours |
| 36 | Value addition to fruits | Mango | Market value goes down to the maximum during peak period of production. | - | - | Value addition to mango | - | Personal contact, persuasion | Chemical and edible colours |
| 37 | Drudgery reduction for women in agril. | - | Drudgery associated with women in agriculture | - | - | Use of paddy thresher and winnower | - | Group discussion | - |
| 38 | Mal nutrition due to lack of balance diet among children. | - | Mal nutrition due to lack of balance diet among children. | - | - | Supplementary diet for preschool children. | - | Group discussion | - |
| 39 | Fuel scarcity | - | Over exploitation of natural forest. Use of cow dung for fuel purpose leading to scarcity of FYM. | - | - | Use of solar cooker to overcome fuel scarcity. | - | Group discussion | - |
| 40 | Household food security by kitchen gardening. | Vegetable and fruit cultivation in kitchen garden | No/ underutilization of backyard space. Non availability of daily fresh vegetables Nutritional deficiency is prominent | - | Development of nutritional garden | - | - | - | Seedlings and seeds of vegetables and fruits |
| 41 | Household treatments of minor ailments | Medicinal plants | Happening of minor health problems in daily life. Non availability of instant medical facilities | - | Medicinal plants for home garden | Medicinal plants for home garden | - | - | Seedlings |
| 42 | Storage loss minimization | Cereals, pulses and vegetables | 1. loss of food grains is maximum during storing | - | Safe storage of pulses | Control of store grain pests. Control of house rats | - | - | Poisons and traps |
| 43 | Enhancement of soil health | Soil health | Gradual deterioration of soil health | - | - | Vermicompost production | - | - | - |

| 44 | Raising Eucalyptus clones for meeting pulp | Eucalyptus | Locally grown Eucalyptus has slower | Performance of Eucalyptus clones | - | Growing Eucalyptus for industrial use. | - | - | JK Clones |
|----|---|--|--|-------------------------------------|--|---|---|---|--|
| | and industrial wood demand | | growth rate and high lignin content and | Zuemypeus erones | | Industrial plantation of eucalyptus, bamboo, | | | 420 Nos. |
| | | | branchy nature | | | mangium and gamhar. | | | Conventional potted seedlings 420 Nos. |
| 45 | Meeting requirement of fuel wood and timber | Acacia mangium | Risk and uncertainty in rainfed farming system and bunds remaining unutilized | - | Bund plantation of high value fast growing timber crop | Growing Acacia mangium for profit maximi-zation | - | - | Mangium seedling – 360 Nos. |
| 46 | Natural resource mgt. through JFM. | Teak | Heavy pressure on natural forest for timber and fuel wood | - | Plantation for comm unity support | - | Natural resource mgt. Environmental pollution. | - | Teak – 620 Nos. |
| 47 | Raising of multipurpose tree species in back yard to met the demand of timber, fuel wood & fodder | Acacia mangium A. auroculi-formis Teak | Devastation of conserved forest for home consumption of timber fuel wood and fodder | - | Homestead forestry | Agroforestry systems for rainfed as well as irrigated agro-ecosystem | - | - | Teak – 300 Nos. A. auriculformis – 240 Nos. A.mangium-60 Nos. |
| 48 | Production of quality planting material | Bambusa nutans, & Bambusa vulgaris | Insufficient quality planting materials | - | - | Propagation of bamboo through culm cutting method. Development and maintenance of forest nursery and raising of quality propagation material. | Bamboo plantation technology. | - | - |
| 49 | Watershed management | Watershed component | Lack of proper management of watershed components. | | | - | Concept of watershed and its management. | - | - |
| 50 | Capacity Building of Rural Youth. | - | Rural youth are not capable enough in agril. & allied activities. | | | 1. Organizing Farmers' Club 2. Effective formation of SHG for boosting rural economy 3. Group dynamics in farmers organisation 4. Group approach in NRM and Conservation 5.Importance of formation & mgmt. for SHG. | | - | - |

| 51 | Upgrading knowledge | - | The working knowledge | - | - | - | 1. Technique of | - | - |
|----|------------------------|-------------|------------------------|---|-------------|----------------------|-----------------|-------------|------------|
| | of extension personnel | | of extension personnel | | | | conducting | | |
| | | | requires upgradation. | | | | Field | | |
| | | | | | | | Demonstration. | | |
| | | | | | | | 2 Agro- | | |
| | | | | | | | consultancy | | |
| | | | | | | | services for | | |
| | | | | | | | entrepreneurshi | | |
| | | | | | | | p development. | | |
| | | | | | | | 3.Community | | |
| | | | | | | | involvement in | | |
| | | | | | | | successful | | |
| | | | | | | | organic | | |
| | | | | | | | farming. | | |
| 52 | Income generation | Bee Keeping | Unemployment of rural | - | Bee Keeping | Bee keeping for self | - | Booklet – 1 | Bee colony |
| | | | youth | | | employment | | News paper | and smoker |
| | | | | | | | | - 1 | |

3.1. B/C.

Details of each On Farm Trial to be furnished in the following format

OFT-1

1. Title of on-farm trials

2. Problem diagnose

3. Details of technologies selected for

assessment/refinement

: Method of planting in sugarcane

: High density planting which increases the seed cost

: Putting 2 two buded sets in a pit of 1ft x1ft size with

4ft x 2ft spacing.

4. Source of technology

5. Production system and thematic area

6. Performance of the Technology with

Performance indicators

7. Final recommendation for micro

level situation

8. Constraints identified and

feedback for research

9. Process of farmers participation

and their reaction

: IISR, Lakhnow, 2002

: Integrated crop mgt.

: Yield, economics.

: Results awaited

:

: Pit method of planting done by the farmers in a group.

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|-----------------------------|---|---------------------------------|----------------|--|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Sugarcane | Irrigated Medium land | High density planting which increases the seed cost | Method of planting in sugarcane | 10 | Putting 2 two buded sets in a pit of 1"ft x1"ft size with 4ft x 2ft spacing. | - |

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

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|---|----------|
| 13 | 14 | 15 | 16 |
| | | | |
| Farmer's practice** | | | |
| Normal trench method | | | |

| of planting. | | |
|--|--|--|
| Technology Assessed** Putting 2 two buded sets in a pit of 1"ft x1"ft size with 4ft x 2ft spacing. | | |
| Technology refined** | | |

1. Title of on-farm trials : Green manuring in rainfed medium land paddy

2. Problem diagnose : Incorporation is difficult in absence of rain at 30-45 DAS

3. Details of technologies selected : Knipping at knee height stage

for assessment/refinement
4. Source of technology : CRRI, 1998

5. Thematic area : Integrated crop management

6. Performance of the Technology : Yield with performance indicators

7. Final recommendation for micro : Sowing of 15 kg. of dhanicha seeds per ha with paddy seeds

level situation and beushaning 45 DAS

8. Constraints identified and : Irratic rainfall often create problem for beushaning in time.

feedback for research

9. Process of farmers participation : Field operation done by farmers in group in presence of

and their reaction scientist

Results

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|---------------------------|---|---|-------------------|---|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Paddy | Rainfed medium land | Poor crop yield due to low nitrogen efficiency | Green manuring in rainfed medium land paddy | 10 | T1- only paddy T2-Seeds of dhanicha 15 kg/ha were sown with paddy seeds | Yield |

* No. of farmers

| Data on the | Results of assessment | Feedback from the | Any refinement | Justification for |
|-------------|-----------------------|-----------------------|----------------|-------------------|
| parameter | Results of assessment | farmer | done | refinement |
| 8 | 9 | 10 | 11 | 12 |
| Yield | F.P-23.52q/ha | Farmers are satisfied | - | - |
| | Demn27.12q/ha | with green manuring | | |
| | | Dhanicha in paddy | | |
| | | cultivation. | | |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|----------------------|-----------------------------------|------------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** Paddy seeds only sown | F.P-23.52q/ha | F.P-3074/- | F.P-1.58 |
| T.A – Dhanicha seeds were sown with paddy seeds & knipping is done at knee high stage | Treatment27.12q/ha | Treatment-5005/- | Treatment- |

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Title of on-farm trials 1.

Problem diagnose 2.

3. Details of technologies selected for assessment/refinement

System of rice intensification

Increasing cost of production and reducing yield response Planting of 10 to 12 days of old seedling of high yielding or hybrid seed, one seedling per hill with a spacing of 25 X 25

cm.

4. Source of technology

5. Thematic area Performance of the Technology 6. with performance indicators

7. Final recommendation for micro

level situation

Constraints identified and 8. feedback for research

9. Process of farmers participation

and their reaction

APAU, 1998 Integrated crop management

No. of tillers per hill, Yield

Planting of 10 to 12 days of old seedling of high yielding or hybrid seed, one seedling per hill with a spacing of 25 X25

Raising seedling(mat), maintaining spacing & transplanting

Farmers directly involved from training to completion of the

experiment

Results

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|-----------------------------|---|--------------------------------|----------------------|--|----------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Paddy | Irrigated medium land | Increasing cost of production and reducing yield response | System of rice intensification | 6 | T ₁ -Normal Practice T2-Planting of 10 to 12 days old seedling of high yielding, one seedling per hill with a spacing of 25 X 25 cm | No. of tillers per hill |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------|--------------------------------|---|---------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| Yield | F.P-27.03q/ha Demn40.43q/ha | Nursery raising and transplanting needs more skill development | - | - |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|----------------------|-----------------------------------|--------------------|
| 13 | 14 | 15 | 16 |
| F.P – 30 to 45 days old seedling, 3 to 4 seedling per hill and HYV with random spacing. | F.P-27.03q/ha | F.P-5,100/- | F.P-1.72 |
| Planting of 10 to 12 days of old seedling of high yielding v/s, one seedling per hill with a spacing of 25x25 cm | Treatment40.43q/ha | Treatment- 11,050/- | Treatment- 2.21 |

OFT-4

1. Title of on-farm trials

: Weed management in greengram.

2. Problem diagnose

: Severe weed infestation reduced seed yield & profitability

3. Details of technologies selected for

assessment/refinement

: Application of Quizalofop -Ethyle 5%ec @ 1lt/ ha after

30days of sowing

4. Source of technology : OUAT, 2003

5. Production system and thematic area: Weed management.

6. Performance of the Technology

with performance indicators : No of weeds/ m2, seed yield

7. Final recommendation for micro level

situation : Application of Quizalofop –Ethyle 5%ec @ 1lt/ ha

between 10-30 days of sowing.

Constraints identified and

feedback for research : Moongs seeds are randomly broadcasted therefore plant

population is not maintained and lot of monocot and dicot

weeds infested moong crop which ultimately affects the crop yield.

8. Process of farmers participation

and their reaction : Farmers applied herbicides under direct supervision of

Scientists and satisfied with the performance of herbicides.

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|-----------------------|--|---------------------------------------|-------------------|--|------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Greengram | Rain fed upland | Severe weed infestation reduced seed yield & profitability | Weed management in greengram | 5 | Application of Quizalofop –Ethyle 5%ec @ 1lt/ ha between 10- 30days of sowing. | Weed no/m ² Yield |

^{*} No. of farmers

| Data on the | Results of assessment | Feedback from the farmer | Any refinement | Justification for refinement |
|-------------|-----------------------|--------------------------|----------------|------------------------------|
| parameter | | rarmer | done | rennement |
| 8 | 9 | 10 | 11 | 12 |
| F.P * 76 | F.P-3.83q/ha | Chemical weed | - | - |
| nos/m2 | Demn5.95q/ha | control in | | |
| Treatment- | | greengram has | | |
| 18 nos/m2 | | been accepted by | | |
| | | the farmers | | |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|----------------------|-----------------------------------|----------|
| 13 | 14 | 15 | |
| Farmers practice** | 3.83q/ha | 3074/- | 1.53 |
| T.A* Application of Quizalofop –Ethyle 5%ec @ 1lt/ ha after 30days of sowing | 5.95q/ha | 5005/- | 1.77 |

1. Title of on-farm trials

2. Problem diagnose

3. Details of technologies selected for assessment/refinement

4. Source of technology

5. Production system and thematic area6. Performance of the Technology with performance indicators

7. Final recommendation for micro level situation

8. Constraints identified and feedback for research

9. Process of farmers participation and their reaction

: Weed control in colocasia

Heavy weed infestation in early growth stage of colocasia reduced the yield.

: Application of Quizalofop-

Ethyle 5%ec @ 1lt/ ha after 30days of sowing.

: OUAT, BBSR

: Weed management

: No of weeds/m2

: Application of Quizalofop -Ethyle 5%ec @ 1lt/ ha between 10-30 days of sowing.

: Farmers are trained before execution of experiment and directly involved in a group

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|--------------------------------|---|---------------------------------|-------------------|--|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Colocasia | Irrigated up/Medium land | Heavy weed infestation in early growth stage of colocasia reduced the yield | Weed control in colocasia | 10 | Application of Quizalofop – Ethyle 5%ec @ 1lt/ ha between 10-30days of sowing. | Yield |
| | | | | | | |

* No. of farmers

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------|-----------------------|--------------------------|---------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| F.P * | F.P. 113.12 q/ha | - | - | - |
| Treatment | T.A. 128.12 q/ha | | | |
| | | | | |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|---|----------------------|-----------------------------------|----------|
| 13 | 14 | 15 | |
| Farmers practice** Manual weeding | 113.12 q/ha | 16560 | 1.41 |
| T.A* Application of Quizalofop –Ethyle 5%ec @ 1lt/ ha after 30days of sowing | 128.12 q/ha | 23360 | 1.57 |

1. Title of on-farm trials : Management of termite and ESB in sugarcane

2. Problem diagnose : Termite and ESB attack in early stage causes significant

yield lose in sugarcane

3. Details of technologies selected

for assessment/refinement : Soil application of regent (Fipronil 0.3% granules)@

20kg/ha at planting.

4. Source of technology : UPCSR,2005

5. Production system and thematic area : Integrated pest mgt.

6. Performance of the Technology

with performance indicators : Yield

7. Final recommendation for micro level situation

8. Constraints identified and feedback for research

9. Process of farmers participation

and their reaction : Farmers applied pesticides under direct supervision of

scientists.

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|--------------------------|--|---|----------------------|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Sugarcane | Irrigated/Medium land | Termite and ESB attack in early stage causes significant yield lose in sugarcane | Management of termite and ESB in sugarcane | 5 | Soil application of regent (Fipronil 0.3% granules)@ 20kg/ha at planting. | Yield, No of dead hearts/m2 & economics |
| | | | | | | |

^{*}No of farmers

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------|-----------------------|--------------------------|---------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| F.P * | Not harvested | - | - | - |
| Treatment | | | | |
| | | | | |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|---|----------------------|-----------------------------------|----------|
| 13 | 14 | 15 | |
| Farmers practice** No treatment | - | - | - |
| T.A* Soil application of regent (Fipronil 0.3% granules) @ 20kg/ha at planting. | - | - | - |

Title of on-farm trials 1.

2. Problem diagnose

3. Details of technologies selected for assessment/refinement

Source of technology 4.

5. Thematic area

Performance of the Technology 6. with performance indicators

Final recommendation for micro 7. level situation

Constraints identified and 8. feedback for research

9. Process of farmers participation and their reaction

Biological control of groundnut wilt

High mortality due to fungal wilt at early stages of crop

growth

Treatment with Tricoderma viridae @ 4gm. In 10 ml of water for 1kg seed and spraying plant with 5gm/lt of water

OUAT, 2001

Biological control of pest and disease

Percentage of germination of seeds and no. of mortality of

plants, yield.

Treatment with Tricodarma viridae @ 4gm. In 10 ml of water for 1kg seed and spraying plant with 5gm/lt of water

Late control by application of bio pesticides.

Farmers applied bio-pesticide under direct supervision of the scientist and satisfied with the performance of the pesticides.

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------------|-------------------|--|---|----------------------|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Groundnut No. of farmers | Rainfed upland | High mortality due to fungal wilt at early stages of crop growth | Biological control of groundnut wilt | 10 | T1-No treatment T2- Treatment with Tricoderma viridae @ 4gm. In 10 ml of water for 1kg seed and spraying plant with 5gm/lt of water | Percentage of germination of seeds and no.of mortality of plants. |

| * No. of farmers | | | | |
|---|-----------------------|---|---------------------|------------------------------|
| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
| 8 | 9 | 10 | 11 | 12 |
| Germination percentage increased by 25% | Yield-7.28q/ha | Tricoderma viridae is quite effective in controlling wilt in groundnut. | - | - |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|--|----------------------|-----------------------------------|----------|
| 13 | 14 | 15 | |
| Farmers practice** spraying of Bavistine | 6.12q/ha | 2950/- | 1.32 |
| Treatment with Tricoderma viridae @ 4gm. In 10 ml of | 7.28q/ha | 5030/- | 1.50 |

| water for 1kg seed and spraying plant with 5gm/lt of water | | |
|--|--|--|
| | | |

1. Title of on-farm trials Alternate substrate for paddy straw mushroom production.

2. Problem diagnose Higher cost of paddy straw and its scarcity. 3.

Details of technologies selected for Paddy straw and sugarcane baggage in 1:1 ratio

assessment/refinement 4. Source of technology CTMRT, Bhubaneswar, 2001

Mushroom production 5. Thematic area

Performance of the Technology with Yield and economics 6. performance indicators

7. Final recommendation for micro Paddy straw mushroom can be economically cultivated by using

level situation paddy straw and sugarcane baggage @ 1:1 ratio.

(i) Sterilization of baggage against ants 8. Constraints identified and feedback for research (ii) other species of paddy straw mushroom may be tried using the

substrates for assessing production and productivity.

(ii) Economy of that species may be calculated. 9. Process of farmers participation and (i) Collection, integration and bedding technique in presence of

their reaction scientists

(ii)Using combine substrates of paddy straw and sugarcane baggage for paddy straw mushroom cultivation is economical

without sacrificing yield

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|----------------------------|-------------------------|---|--|-------------------|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Paddy straw mushroom | Rice based system | Higher cost of paddy straw and its scarcity | Alternate substrates for paddy straw mushroom production | 10 | T ₁ - only paddy straw T ₂ -Paddy straw and sugarcane baggage in 1:1 ratio | Technical (Yield) Economic Farmers reaction Feedback |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|--|--|--------------------------|---------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| 1.52 kg per bed Rs. 26/- per bed Economically acceptable Paddy straw and sugarcane baggage can be utilized combinely for paddy straw mushroom cultivation. | The yield of paddy straw mushroom is economically acceptable though production from combine substrates is slightly low | Economically acceptable | - | - |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|--------------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | 1.61 kg per bed | Rs. 34/- per bed | 2.15 |
| Technology assessed ** | 1.52 kg per bed | Rs. 35/- per bed | 2.34 |
| Technology refined** | - | - | - |

1. Title of on-farm trials : **Performance of Paddy Straw Mushroom under orchard**

shade

2. Problem diagnose : Lack of infrastructure for economical cultivation of paddy

straw mushroom

Under mango orchard

3. Details of technologies selected

for assessment/refinement

4. Source of technology : CTMRT, Bhubaneswar
5. Thematic area : Mushroom production
6. Performance of the Technology : Yield and economics

6. Performance of the Technology with performance indicators

7. Final recommendation for micro level situation

8. Constraints identified and feedback for research

: Paddy straw mushroom can be cultivated under orchard

shade.

Constraints identified and : Performance of paddy straw mushroom under rain condition

is hampered due to rotting.

Resistant strains may be identified.

9. Process of farmers participation : Cultivation of paddy straw mushroom under orchard shade

and their reaction is encouraging.

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|-------------------|----------------------|--------------|----------------|------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Paddy | Orchard | Lack of | Performance | 5 | T ₁ Normal | Yield |
| straw | shade | infrastructure | of Paddy | | condition | Economics |
| mushroom | | for Paddy | straw | | T ₂ Paddy | Farmers |
| | | straw | mushroom | | straw | reaction |
| | | mushroom | under | | mushroom | Feedback |
| | | production | orchard | | cultivation | |
| | | | shade. | | under | |
| | | | | | orchard | |
| | | | | | shade | |

| Data on the | D14 6 | Feedback from the | Any refinement | Justification for |
|---------------|------------------------|-------------------|----------------|-------------------|
| parameter | Results of assessment | farmer | done | refinement |
| 8 | 9 | 10 | 11 | 12 |
| 1.45 kg per | Though Paddy straw | Economically | - | - |
| bed | mushroom production | not acceptable | | |
| Rs. 30/- per | under orchard shade is | | | |
| bed | slightly less than | | | |
| Economically | normal housing | | | |
| acceptable | condition it may be | | | |
| Orchard shade | practice for biggners | | | |
| can be | without any investment | | | |
| utilized for | for infrastructure. | | | |
| paddy straw | | | | |
| mushroom | | | | |
| cultivation. | | | | |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|--------------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | 1.58 kg per bed | Rs. 33/- per bed | 2.11 |
| Technology assessed ** | 1.45 kg per bed | Rs. 28/- per bed | 1.93 |
| Technology refined** | - | - | - |

1. Title of on-farm trials : **Intercropping in cashew orchard**

2. Problem diagnose : Under utilized space in cashew orchards

3. Details of technologies selected for assessment/refinement : Intercrop planting can augment income.

4. Source of technology : CTCRI (Bhubaneswar center), 2003

5. Thematic area : Management of orchard

6. Performance of the Technology with :

performance indicators

7. Final recommendation for micro

level situation

8. Constraints identified and feedback

for research

9. Process of farmers participation and

their reaction

Results awaited

Recommended for planting in cashew orchards

Low consumption of cassava in Orissa condition.

Very very enthusiastic to get something out of nothing

Results

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|-------------------|------------------------------------|---------------------------------|----------------|-----------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Cashew | Orchard based | High gestation period of cashew | Intercropping in cashew orchard | 10 | T ₁ monocrop | Yield |
| | | | | | T ₂ Intercrop | Economics |
| | | | | | | |

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

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|--------------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | | | |
| Technology assessed** | | | |
| Technology refined** | | | |

OFT 11

1. Title of on-farm trials : **Performance of different crops under shade**

2. Problem diagnose : Under utilized mango orchards

3. Details of technologies selected for : Cultivation of different set tolerant cash crops.

assessment/refinement
4. Source of technology : CHES, Bhubaneswar, 2003

Thematic area : Management of orchardPerformance of the Technology with : The crop is coming up w

6. Performance of the Technology with : The crop is coming up well performance indicators

7. Final recommendation for micro : Results awaited

level situation

8. Constraints identified and feedback

for research

9. Process of farmers participation and

their reaction

Poor availability of Planting material

Very very enthusiastic

Results

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|-------------------|------------------------|--|----------------|-----------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Mango | Orchard based | Low land use efficieny | Performance of different crops under shade | 10 | T ₁ monocrop | Yield |
| | | | diadr sinde | | T ₂ Intercrop | Economics |
| | | | | | | |

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

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|--------------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | | | |
| Technology assessed** | | | |
| Technology refined** | | | |

OFT 12

7.

1. Title of on-farm trials : **Performance of wilt resistant high yielding variety of brinjal**

Results awaited

2. Problem diagnose : Wilt susceptibility low yielding local variety

3. Details of technologies selected for : Use of wilt resistant high yielding variety **swarna syamali**

assessment/refinement

4. Source of technology : HARP, Ranchi, 2006

5. Thematic area : Vegetables

Production and management technology

6. Performance of the Technology with

performance indicators

Final recommendation for micro : Results awaited

level situation
8. Constraints identified and fe

Constraints identified and feedback

for research

their reaction

Unavailability of wilt resistant varieties available.

9. Process of farmers participation and : Very enthusiastic to get a relief from wilt damage.

| 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 | Upland/ medium land | Wilt susceptible to low yielding local variety | Performance of wilt resistant high yielding variety of brinjal. | 10 | T ₁ Control | Yield |
| | | | | | T _{2 Swarnna} syamali | Economics |

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

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|--------------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | | | |
| Technology assessed** | | | |
| Technology refined** | | | |

1. Title of on-farm trials : Studies on high yielding clones of Eucalyptus

species.

2. Problem diagnose : Locally raised Eucalyptus has longer rotation period

high lignin contents & branching in nature

3. Details of technologies selected for

assessment/refinement : Use of JK clones for plantation with proper management

4. Source of technology : JK Paper Mills, Raygada, 2001

5. Thematic area6. Performance of the Technology with

Performance of the Technology with : Height – **Results awaited** performance indicators dbh/collar diameter – Results awaited

dbh/collar diameter – Results awaited Number of branches - Results awaited Coppicing habit - After 4th year

7. Final recommendation for micro

level situation :

8. Constraints identified and feedback

for research : In this 1st year of plantation termite attack is the

major cause of mortality.

Production technology

9. Process of farmers participation

and their reaction : Farmers are trained before plantation programme and

plantation work done in a group approach

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|---------------------|------------------------------------|---|---|----------------------|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Eucalyptus | Rainfed upland & med land | Locally raised Eucalyptus has longer rotation period, high lignin content & branchy in nature | Studies on high yielding clones of eucalyptus | 7 | Fast growing, less branchy, les lignin content, eucalyptus clones are grown with proper management | (i) Height–Upto 4 th yr (ii) dbh/collar diameter–Upto 4 th yr (iii) No. of branches –Upto 4 th yr (iv) Coppicing habit – After 4 th year |

^{*} No. of farmers

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------|-----------------------------------|-------------------------------|---------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| For 8 month old | 8 month old seedlings | Clones are growing faster | - | - |
| seedlings. | shows faster growth of | than conventional potted | | |
| Clones height- | clones. | seedlings but requires | | |
| 70cm. | Detail growth of clones will | regular irrigation from | | |
| Clones colar | be assessed after harvesting | January onwards during the | | |
| diameter 1.5cm | i.e after 4 th year of | fast year of plantation and | | |
| Potted seedlings | plantation. | the clones are more | | |
| ht45cm | - | susceptible to termite attack | | |

| Potted seedling | than conventional seedlings. | |
|-----------------|------------------------------|--|
| colar diameter. | | |
| | | |

| Technology Assessed / Refined | *Production per unit | Net Return (Profit) in Rs. / unit | BC Ratio |
|-------------------------------|----------------------|--------------------------------------|----------|
| 13 | 14 | 15 | 16 |
| Farmer's practice** | ı | - | - |
| Technology assessed** | ı | = | - |
| Technology refined** | - | - | - |

3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous year and popularized during 2006-07 and recommended for large scale

adoption in the district

| | | | Details of | Horizontal spread of technology | | |
|----------|--|--|--|---------------------------------|----------------|---------------|
| S. No | Thematic Area* | Technology demonstrated | popularization methods suggested to the Extension system | No. of villages | No. of farmers | Area in ha |
| 1. | Integrated crop management | Green manuring in direct seeded kharif paddy | Training, leaf lets, exposure visit, video show, news paper | 15 | 200 | 190 |
| 2. | Cropping system | Varietal substitution in paddy | Training, leaf lets, exposure visit, news paper | 12 | 110 | 150 |
| 3. | Crop diversification | Pyara cropping of field pea | Training, leaf lets, exposure visit, news paper | 9 | 100 | 140 |
| 4. | Fruits Cultivation of fruits | Cultivation of Tissue cultured banana | Training, Farm Visit, Exposure visit, Film show | 22 | 52 | 20 |
| 5 | Fruits Cultivation of fruits | Cultivation of high yielding variety of papaya | Training, Farm Visit, Exposure visit, Film show | 15 | 80 | 18 |
| 6 | Fruits Cultivation of fruits | Introduction of Hybrid Coconut | Training, Farm Visit, Exposure visit, Film show | 5 | 40 | 4 |
| 7 | Tuber crops Production and management technology | Introduction of improved yam Var. Hatikhojia | Training, Farm Visit, Exposure visit, Film show | 10 | 120 | 14 |
| 8 | Tuber crops Production and management technology | Crop substitution with arrowroot. | Training leaf lets, exposure visit, | - | - | - |
| 9 | Spices Production and management technogy | Introduction of improved Turmeric var. roma, suroma, ranga, rashmi | Training, Farm Visit, Exposure visit, Film show | 12 | 34 | 5 |
| 10 | Spices Production and management technogy | Introduction of improved Ginger Var. suprava | Training, Farm Visit, Exposure visit, Film show | 5 | 27 | 3 |
| 11 | Integrated pest mgt. | Integrated pest management in rice | Training, leaf lets, exposure visit, video show, news paper | 10 | 150 | 100 |
| 12 | Biocontrol of pest and diseases | Biological control of sugarcane borers | Training, leaf lets, exposure visit, video show, news paper | 20 | 200 | 160 |
| 13 | Bee keeping | Bee keeping for rural youth | Training, leaf lets, exposure visit, video | 6 | 16 | 80 units |

| | | | show, news paper | | | |
|----|--|---|--|----|-----|------------|
| 14 | Integrated pest management | Integrated pest management in brinjal | Training, leaf lets, exposure visit, video show, news paper | 10 | 100 | 70 |
| 15 | Integrated pest management | Microbial control of tomato fruit and shoot borer | Training, leaf lets, exposure visit, video show, Kisan mela | 8 | 50 | 30 |
| 16 | Freshwater prawn culture | Freshwater prawn culture | Trainings, exposure visit, kisan mela, video show | 15 | 25 | 25 |
| 17 | Breeding and culture of ornamental fishes | Ornamental fish culture | Trainings, exposure visit, kisan mela, video show | 7 | 32 | 14 unit |
| 18 | Integrated fish farming | Pond based farming system | Trainings, exposure visit, kisan mela, video show | 15 | 37 | 21 |
| 19 | Backyard poultry management | Backyard poultry rearing | Trainings, exposure visit, kisan mela, video show | 17 | 58 | 43 unit |
| 20 | Income generation activity for empowerment of rural women | Paddy straw mushroom cultivation | Leaf let, Poster, Training, Group discussion, TV talk, New paper coverage | 17 | 590 | - |
| 21 | Household food security by kitchen gardening and nutritional gardening | Nutritional gardening | Leaf let, Poster, Training, Group discussion, TV talk, New paper coverage | 4 | 56 | - |
| 22 | Medicinal and aromatic plants | Medicinal plants for home garden | Leaf let, Poster, Training, Group discussion, TV talk, New paper coverage | 2 | 87 | - |
| 23 | Income generation activity for empowerment of rural women | Oyster mushroom cultivation | Leaf let, Poster, Training, Group discussion, TV talk, New paper coverage | 8 | 108 | - |

Details of FLDs implemented during 2007-08 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.) b.

| Sl. No. | Сгор | Thematic area | Technology Demonstrated | Season and | Arc | ea (ha) | | No. of fara | | Reasons for shortfall in achievement | |
|------------|--------------|---|--|----------------|----------|-------------|-------|-------------|-------|--------------------------------------|--|
| No. | • | | 30 | year | Proposed | Actual | SC/ST | Others | Total | | |
| 1. | Paddy | Green manuring in lowland kharif paddy | Integrated crop mgt. | Kharif 2007 | 3.6 | 3.6 | 2 | 18 | 20 | - | |
| 2. | Groundnut | Weed control in groundnut | Weed mgt. | Kharif20 07 | 1 | 0.8 | 0 | 5 | 5 | - | |
| 3. | Moong | Fertilizer mgt. in moong | Integrated crop mgt. | Rabi2008 | 4ha | 4ha | 0 | 10 | 10 | | |
| 4. | Sunflower | Micronutrient mgt. in sunflower | Weed mgt. | Rabi2008 | 4ha | 4ha | 2 | 8 | 10 | | |
| 5. | Sugarcane | Weed mgt. in sugarcane | Weed mgt. | Rabi2008 | 4ha | 4ha | 0 | 8 | 10 | | |
| 6. | Vermiculture | Enrichment of rural compost | Vermiculture | Rabi2008 | 10units | 10 units | 0 | 10 | 10 | | |
| 7 | Paddy | IPM | Production stability and profit maximization | Kharif20 07 | 3.2 | 3.2 | 4 | 18 | 22 | | |
| 8 | Sugarcane | Biological control of pest and diseases | Bio control of pest and diseases | Kharif20 07 | 2.4 | 2.4 | 0 | 7 | 7 | | |
| 9 | Paddy | Field loss minimization | Management of field rats | Rabi2008 | 0.4 | 0.4 | 0 | 4 | 4 | | |
| 10 | Brinjal | Integrated pest mgt. | Integrated pest mgt. for fruit and shoot borer and weed complex in brinjal. | Rabi2008 | 0.4 | 0.4 | 0 | 4 | 4 | | |
| 11 | Beekeeping | Beekeeping | Beekeeping | Rabi2008 | 10units | 10 units | 0 | 10 | 10 | | |
| 12 | Banana | Fruits Cultivation of fruits | Cultivation of Tissue cultured banana Bantala | Kharif 2007 | 0.40 | 0.45 | 0 | 8 | 8 | | |
| 13 | Papaya | Fruits Cultivation of fruits | Cultivation of hybrid papaya Red Lady | Kharif 2007 | 0.40 | 0.2 | 0 | 4 | 4 | | |
| 14 | Coconut | Fruits Cultivation of fruits | Hybrid coconut cultivation | Kharif 2007 | 0.6 | 0.6 | 5 | 5 | 10 | | |
| 15 | Yam | Tuber crops | Introduction of | Kharif 2007 | 0.04 | 0.06 | 8 | 2 | 10 | | |

| | | Production and management technology | improved yam Var Hatikhojia | | | | | | | |
|----|-------------------------|--|--|-----------------|----------|---------------|----|----|----|--|
| 16 | Elephant Foot Yam | Tuber crops Production and management technology | Introduction of Elephant foot yam var. Gajendra | Kharif 2007 | 0.02 | 0.01 | 10 | - | 10 | Unavailability of planting material. |
| 17 | Turmeric | Spices Production and 14management t15echnogy | Introduction of improved turmeric Var. roma, suroma, ranga, rashmi | Kharif 2007 | 0.05 | 0.08 | 4 | 6 | 10 | |
| 18 | Arrowroot | Production and mgt. technology. | Varietal substitution with arrowroot. | Summer 2008 | 0.5 | 0.5 | 25 | - | 25 | |
| 19 | Prawn (Scampi) | Freshwater prawn culture | Freshwater prawn culture | Kharif20 07 | 2 | 0.3 | 0 | 4 | 4 | Fund |
| 20 | Ornamental fish | Breeding and culture of ornamental fishes | Ornamental fish culture | Kharif20 07 | 10nos | 10nos | 0 | 10 | 10 | |
| 21 | Indian major Carps | Integrated fish farming | Pond based farming system | Kharif20 07 | 5nos 2Ha | 3nos 1.4ha | 1 | 2 | 3 | Fund |
| 22 | Poultry | Backyard poultry management | Backyard poultry rearing | Kharif20 07 | 20nos | 20nos | 14 | 6 | 20 | |
| 23 | Pulses | Storage loss minimization technique | Safe storage of pulses | Kharif 2007 | 25 units | 25 units | 25 | - | 25 | |
| 24 | Paddy straw mushroom | Income generation activities for empowerment of rural women | Cultivation of paddy straw mushroom | Kharif 2007 | 20 units | 20 units | - | 20 | 20 | |
| 25 | Vegetables and fruits | Household food security by kitchen gardening and nutritional gardening | Development of nutritional garden | Kharif 2007 | 0.4 | 0.4 | - | 10 | 10 | |
| 26 | Medicinal plants | Medicinal and aromatic plants | Medicinal plants for home garden | Kharif 2007 | 20 units | 20 units | - | 20 | 20 | |
| 27 | Oyster Mushroom | Income generation activities for empowerment of rural women | Cultivation of oyster mushroom | Rabi 2007-08 | 20 Units | 20 Units | 0 | 20 | 20 | |
| 28 | A. | Integrated farming | Growing of fast | Kharif 2007 | 3 ha | 1.15 ha | - | 4 | 4 | Non availability of |

| | Mangium | system | growing tree sps Acacia mangium in the field | | | | | | | sufficient planting material |
|----|-------------------|---------------------------|---|-------------|---------|---------|----|-----|------------------|---------------------------------|
| 29 | Teak | Production | Plantation of teak in the | Kharif 2007 | 1 ha | 0.25 ha | 35 | 165 | 200 | Non availability of |
| | | technology | of the villages with people participation | | | | | | (entire village) | sufficient planting material |
| 30 | A. mangium, | Integrated farming system | Raising of multipurpose tree species in back yard | Kharif 2007 | 0.25 ha | 0.25 ha | 12 | 18 | 30 | |
| | A. auriculiformis | | for meeting the demand for fuel wood, timber & | | | | | | | |
| | Teak | | fodder | | | | | | | |
| 31 | Poultry | Backyard poultry | Backyard poultry | Rabi2007 | 20nos | 20nos | 20 | - | 20 | |
| | | management | rearing | | | | | | | |

Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | | Status of s | oil | ious crop | Sowing date | rvest date | Seasonal rainfall (mm) | of rainy days |
|------------------|----------------|--|--------------------------|--------------------|-------------|--------|-----------|-------------|---------------|---------------------------|------------------|
| | | Fa sit (RF/J | \mathbf{S}_0 | N | P | K | Previous | Sow | Har | Se | No. |
| Paddy | Kharif 2007 | Rainfed | Sandy loam to clay | Low | Medium | High | Paddy | 15-20.6.07 | 20-25.9.07 | | |
| Groundnut | Kharif 2007 | Rainfed | Sandy loam | Low | Medium | High | Vegetable | 3-7.07.07 | 23-27.10.07 | | |
| Moong | Rabi 2008 | Rainfed | Sandy loam | Low/ medi um | Low | medium | Paddy | 2-5.01.08 | 10-14.3.08 | | |
| Sunflower | Rabi 2008 | Rainfed | Sandy loam to clay | Low/ medi um | Low | medium | - | 1-3.12.08 | 21-23.3.08 | | |
| Sugarcane | Rabi 2008 | Irrigated | Sandy loam | Medi um land | High | Upland | Paddy | 3-8.2.08 | Not harvested | | |
| Vermicultur e | Rabi 2008 | Rainfed | Sandy loam to | - | - | - | - | 20-28.3.08 | Not harvested | | |

| | | | clay | | | | | | |
|-------------------------|---------------------|-----------------------------|--------------------------|--------------------|--------|--------|-----------------------|------------------------|------------------------|
| Paddy | Kharif 2007 | Rainfed | Sandy loam | Low/ medi um | Low | medium | Colocasia | 1-7.07.07 | 6-13.10.07 |
| Sugarcane | Kharif 2007 | Irrigated | Sandy loam to clay | Low/ medi um | Low | medium | - | 4-10.1.07 | 10-25.10.07 |
| Paddy | Rabi 2008 | Rainfed | Sandy loam | Low | Medium | High | Paddy | 5-10.7.07 | 29.11.07 to 5.12.07 |
| Brinjal | Rabi 2008 | Rainfed | Sandy loam to clay | Low | Medium | High | Vegetable | 5-10.1.08 | Not harvested |
| Beekeeping | Rabi 2008 | Rainfed | Sandy loam | - | - | - | - | 15-30.3.08 | Not harvested |
| Paddy straw mushroom | Kharif 2007 | Rainfed | Clay loamy | - | - | - | Unused space | 18.7.07 – 20.7.07 | 30.07.07 – 10.08.07 |
| Vegetable and fruits | Kharif 2007 | Rainfed | Loamy | Low | Medium | High | Fallow | 17.08.07- 22.9.07 | 2.9.07 onwards |
| Medicinal plants | Kharif 2007 | Rainfed | loamy | low | medium | High | fallow | 23.08.07 – 31.08.07 | continuing |
| Oyster mushroom, | Rabi 2007- 08 | Rainfed | Sandy loam to clay | - | - | - | Unused space | 28.11.07 - 30.11.07 | 18.12.07- 12.1.08 |
| Banana | Kharif | Irrigated medium land | Loamy to clay loam | Low/ medi um | Low | medium | Fodder | | 15.8.07 to 21.8.07 |
| Papaya | Kharif | Irrigated medium land | Loamy | Low/ medi um | Low | medium | Vegetables | | 21.8.07 to 23.8.07 |
| Yam | Kharif | Rainfed upland | Alluvia l soil | Low/ medi um | Low | medium | Rabi greengram | 17.7.07 to 21.07.07 | 25.2.08 to 28.2.08 |
| Elephant foot Yam | Kharif | Rainfed upland | Alluvia l soil | Low/ medi um | Low | medium | Rabi greengram | 13.7.07 to 3.8.07 | 24.3.08 |
| Coconut | Kharif | Rainfed medium land | Loamy to clay loam | Low/ medi um | Low | medium | Fodder, vegetables | 11.07.07 to 26.07.07 | - |
| Turmeric | Kharif | Rainfed sloppy upland | Loamy | Low/ medi um | Low | medium | Colocasia | 3.07.07 to 15.07.07 | 23.02.08 to 3.03.08 |

| Arrowroot | Crop Substit ution with arrowr | Phulbani selection | Red latterite | Medi um land | High | Upland | Paddy | 30.1.08 | - |
|------------------------------|--|-----------------------------|------------------|--------------------|------|--------|--|-------------|---|
| Acacia mangium | Kharif | Irrigated medium land | Sandy loam | Low/ medi um | Low | medium | Bunds remain fallow | 29.08.07 | After 5 th year of plantation. |
| Teak | Kharif | Rainfed medium land | Sandy loam | Low/ medi um | Low | medium | Unutilised land | 27.07.07 | After 20years of plantation |
| A. Mangium, A. auriculformis | Kharif | Irrigated backyard | Sandy loam | Low/ medi um | Low | medium | Vegetable growing boundary unutilized | 10.08.07 | 5 th year of plantation onwards. |
| Prawn | Kharif | Rainfed | Clay loam | _ | _ | _ | IMC | 24.8.07 | Mar-April |
| Ornamental fish | Kharif | Rainfed | Cemented tank | - | - | - | - | 29.5.07 | Sept onwards |
| Fish | Kharif | Rainfed | Clay loam | - | - | - | IMC | July-Aug 07 | Mar-june |
| Poultry | Kharif | Rainfed med land | Backyard | - | - | - | Desi Bird | Sept 07 | Mar onwards |
| Poultry | Rabi | Rainfed med land | Backyard | - | - | - | Desi Bird | Feb 08 | Sept 08 onwards |

Performance of FLD

| Sl. No | Crop | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Demo. Yield Qtl/ha | | Demo. Yield Qtl/ha Check Qtl./ha | | Increase in yield (%) | Data on parar relation to tec demonstra | hnology |
|-----------|-----------|----------------------------|---------------------|-------------------|---------------|--------------------|-------|----------------------------------|-------|-----------------------------|---|---------|
| | | | | | | H | L | A | | | Demo | Local |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1. | Paddy | Integrated crop mgt. | Paddy Khandagiri | 20 | 3.6ha | 26.55 | 22.21 | 24.11 | 19.98 | 20.67 | 24.11 | 19.98 |
| 2. | Groundnut | Weed mgt. | Smruti | 5 | 0.8ha | 13.82 | 9.42 | 10.92 | 8.34 | 30.93 | 10.92 | 8.34 |
| 3. | Moong | Integrated crop mgt. | Tarm-1 | 10 | 4ha | 6.20 | 5.58 | 5.78 | 3.98 | 45.22 | 5.78 | 3.98 |

| 4. | Sunflower | Weed mgt. | Jwalamukhi | 10 | 4ha | 14.75 | 11.23 | 12.37 | 10.97 | 12.76 | 12.37 | 10.97 |
|----|----------------------|---|--------------------------------|----|---------|---------------|---------------|---------------|---------------|-------|-----------|-----------|
| 5 | Sugarcane | Weed mgt. | Co-6907 | 10 | 4ha | | | | | | | |
| 6 | Vermicultur e | Vermiculture | Eosin foitida | 10 | 10units | No | Not Harvested | | | | | |
| 7 | Paddy | Production stability and profit maximization | Khandagini & Udayagiri | 22 | 3.2ha | 33.03 | 26.55 | 30.12 | 24.21 | 24.41 | 30.12 | 24.21 |
| 8 | Sugarcane | Bio control of pest and diseases | CO-6907 | 7 | 2.4ha | 950.15 | 860.24 | 908.20 | 775.23 | 17.15 | 908.20 | 775.23 |
| 9 | Paddy | Management of field rats | Pratikshya | 10 | - | 45.35 | 40.18 | 42.53 | 38.89 | 9.35 | 42.53 | 38.89 |
| 10 | Brinjal | Integrated pest mgt. for fruit and shoot borer and weed complex in brinjal. | Swarna syamali | 4 | 10 | | | | Not harvested | d | | |
| 11 | Beekeeping | Beekeeping | Apis cerena indica | 10 | | | | | | | | |
| 12 | Banana | Cultivation of Tissue cultured banana | Bantala | 8 | 0.452ha | 390 | 310 | 367.5 | 150 | 146 | 367.5 | 150 |
| 13 | Papaya | Cultivation of hybrid papaya | Red Lady | 4 | 0.2ha | 465 | 380 | 436 | 200 | 118 | 436 | 200 |
| 14 | Yam | Introduction of improved yam | Hatikhojia | 10 | 0.06 | 4.2kg/ pit | 3.1kg/ pit | 3.7kg/ pit | - | - | - | - |
| 15 | Elephant foot Yam | Introduction of Elephant foot yam | Gajendra | 10 | 0.01 | 5.3kg/ pit | 3.9kg/ pit | 4.8kg/ pit | 2.8kg/ pit | 70 | 4.8kg/pit | 2.8kg/pit |
| 16 | Coconut | Hybrid coconut cultivation | WCT x MYD WCT x GB | 10 | 0.4ha | | - | | - | - | - | - |
| 17 | Turmeric | Introduction of improved turmeric | roma, suroma, ranga, rashmi | 10 | 0.08 | 91 | 63 | 85 | 52 | 60 | 85 | 52 |
| 18 | ginger | Introduction of improved ginger | Phulbani selection | 25 | 0.4 | 11: | 2 92.5 | 80 | 45 | 102 | 92.5 | 45 |

| 19 | Prawn | Freshwater prawn culture | <i>M rosenbergii</i> (Scampi) | 4 | 0.3 | 19.75 | 9.5 | 11.62 | - | - | 11.62 | - |
|-----|------------------------------|---|--|---------------------------|----------|--------------------------------|--------------------------|-----------------------------|-------|--------|-----------------------|-------|
| 20 | Ornamental fish | Ornamental fish culture | Live bearer(molly, guppy,swordta il, platy) | 10 | 10units | 200Pcs/ Month/ Unit | 50Pcs/ Month /Unit | 100Pcs /Mont h/Unit | - | - | 110Pcs/Month/U nit | - |
| 21 | Fish | Pond based farming system | Indian major Carps | 3 | 1.4 | 54.31 | 28.52 | 48.75 | 21.62 | 125.6% | 48.75 | 21.6 |
| 22 | Poultry | Backyard poultry rearing | Vanaraja | 20 | 20units | 6.5kg/b ird (6mont h) | 4kg/bi rd(6 month | 5.1kg/ bird (6 month) | 1.3 | 292.3% | 5.1Kg | 1.3Kg |
| 23 | Greengram | Safe storage of pulses | Indigenous | 25 | 25 units | 98% | 79% | 92% | 60% | 32% | 92% | 60% |
| 24 | Paddy straw mushroom | Cultivation of paddy straw mushroom | Volvariella volvacea | 20 | 20 units | 1.92 kg/bed | 1.13kg /bed | 1.60kg /bed | - | - | 1.60kg | - |
| 25 | Vegetable and fruits | Development of nutritional garden | High yielding | 10 | 0.4 | Re | sult await | ed | | | | |
| 26 | Medicinal plants | Medicinal plants for home garden | Indigenous | 20 | 20 units | | | | | | Result awaited | |
| 27 | Oyster Mushroom | Introduction of oyster mushroom | Pleurotus sajarcaja | 20 | 20 units | 2.61 kg/bed | 1.37kg /bed | 1.56kg /bed | | | | |
| 28* | Acacia mangium | Growing of fast growing tree sps. Acacia mangium in field bunds | A. mangium | 4 | 1.15 | 105cm | 78cm | 89cm | 1 | - | 89cm | - |
| 29* | Teak | Plantation of teak with proper management in the community waste land with people participation | Teak | All villager (200 Nos) | 0.25 | 85cm | 55cm | 67cm | 1 | - | 67cm | - |
| 30* | A. Mangium, A. auriculformis | Raising of multi purpose tree species in backyard for meeting the demand for fuel | A. mangium A. auriculformis | 30 | 0.25 | 110cm 87cm | 83cm 66cm | 95cm 72cm | - | - | 95cm 72cm | - |
| | Teak | wood, timber & fodder | Teak | | | 88cm | 50cm | 65cm | | | 65cm | |

^{*} Data presented in the following serial nos 27,28,29 are height taken from 8 month old plantation.

Economic Impact (continuation of previous table)

| | Average Cost of cu | ltivation (Rs./ha) | Average Gross Retu | rn (Rs./ha) | Average Net Return (| Profit) (Rs./ha) | Benefit-Cost |
|------------|------------------------------|--------------------|---|-------------|----------------------|---|---|
| Sl. No. | Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | Ratio (Gross Return / Gross Cost) |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 | 8100 | 7000 | 13550 | 10100 | 5450 | 3100 | 1.67 |
| 2 | 10900 | 10100 | 19500 | 15200 | 8600 | 5100 | 1.78 |
| 3 | 5900 | 5250 | 10207 | 8350 | 4307 | 3100 | 1.73 |
| 4 | 6250 | 5600 | 11900 | 9850 | 5650 | 4250 | 1.90 |
| 5 | Not harvested | - | - | - | - | - | - |
| 6 | Not harvested | - | - | - | - | - | - |
| 7 | 9100 | 7500 | 16200 | 11350 | 7100 | 3850 | 1.78 |
| 8 | 31200 | 30100 | 88200 | 75450 | 57000 | 44350 | 2.82 |
| 9 | 8300 | 7300 | 18500 | 15650 | 10200 | 8350 | 2.22 |
| 10 | Not harvested | - | - | - | - | - | - |
| 11 | Not harvested | - | - | - | - | - | - |
| 12 | 50,000 | 15,000 | 1,20.000 | 30.000 | 70.000 | 15.000 | 2.4 |
| 13 | 40,000 | 15,000 | 85,000 | 25,000 | 45,000 | 10,000 | 2.12 |
| 14 | 35,000 | 10,000 | 90,000 | 25,000 | 55,000 | 15,000 | 2.57 |
| 15 | 25,000 | 5,000 | 80,000 | 15,000 | 35,000 | 10,000 | 3.2 |
| 16 | - | - | - | - | - | - | |
| 17 | 3,00,000 | 50,000 | 10,00,000 | 1,00,000 | 7,00,000 | 50,000 | 3.33 |
| 18 | - | 45,000 | 9,00,000 | 85,000 | 6,50,000 | 40,000 | 3.6 |
| 19 | 98,500 | 37,200(Fish) | 2,20,780 | 68,900 | 1,22,280 | 31,700 | 2.24 |
| - | | , , , , , , | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | , , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1.85 |
| 20 | 700 | - | 2420 | - | 1720 | - | 3.45 |
| 21 | 48,600 | 32,500 | 82,900 | 50,160 | 34,300 | 28,060 | 1.70 |
| | | , | , | | , | , | 1.54 |
| 22 | 1000 | 500 | 4800 | 1500 | 3800 | 1000 | 4.8 |
| | | | | | | | 2.5 |
| 23 | 13/- | - | Rs.96/- | - | Rs.83/- | - | 7.38 |
| 24 | Rs.30/-per bed | - | Rs.64/- | - | Rs34/- | - | 2.13 |
| 25 | - | - | - | - | - | - | - |
| 26 | 1- | - | - | - | - | - | - |
| 27 | Rs.18/-per bag | - | Rs.62.40 | - | Rs.44.40 | - | 3.47 |
| 28 | Rs. 1800/- (Borne by KVK) | - | After 5 th year of plantation. | - | Results awaited | - | Results awaited |
| 29 | Rs. 3100/- | | After 20 years of plantation | | Results awaited | | Results awaited |

| | (Borne by KVK) | | | | | | |
|----|----------------|---|------------------------------------|---|-----------------|---|-----------------|
| 30 | Rs. 3000/- | = | 5 th year of plantation | - | Results awaited | - | Results awaited |
| | (Borne by KVK) | | onwards. | | | | |

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

| Crop | Season | Component | Farming situation | Average yield (q/ha) | Local check (q/ha) | Percentage increase in productivity over local check |
|-------------------|-------------|---|-----------------------|----------------------|--------------------------|---|
| Paddy | Kharif 2007 | Dhanicha seeds | Rainfed | 24.11 | 19.98 | 20.67 |
| Groundnut | Kharif2007 | Herbicides | Rainfed | 10.92 | 8.34 | 30.93 |
| Moong | Rabi2008 | SSP, Rizobium culture | Rainfed | 5.78 | 3.98 | 45.22 |
| Sunflower | Rabi2008 | Boron | Rainfed | 12.37 | 10.97 | 12.76 |
| Sugarcane | Rabi2008 | Herbicides | Irrigated | Not harvested | | |
| Vermiculture | Rabi2008 | Polythyne earthworm | Rainfed | Not harvested | | |
| Paddy | Kharif2007 | Neem oil, Biopesticifde chemical | Rainfed | 30.12 | 24.21 | 24.41 |
| Sugarcane | Kharif2007 | Tricocard (T. Chilonis) | Irrigated | 908.20 | 775.23 | 17.15 |
| Paddy | Rabi2008 | Zinc phosphite | Rainfed | 42.53 | 38.89 | 9.35 |
| Brinjal | Rabi2008 | Biopesticide, Neem cake, Neem oil, P.trap | Rainfed | Not harvested | | |
| Beekeeping | Rabi2008 | Bee colony, smoker | Rainfed | Not harvested | | |
| Banana | Kharif | Bantala(Tissue cultured) | Irrigated medium land | 367.5 | 150 | 240 |
| Papaya | Kharif | Red Lady | Irrigated medium land | 436 | 200 | 200 |
| Yam | Kharif | Hatikhojia | Rainfed upland | 3.7kg/pit | _ | - |
| Elephant foot Yam | Kharif | Gajendra | Rainfed upland | 4.8kg/pit | 2.8Kg/pit | 100 |
| Coconut | Kharif | WCT x MYD WCT x GB | Rainfed medium land | - | | |
| Turmeric | Kharif | Roma, Suroma, Ranga, Rashmi | Rainfed sloppy upland | 85 | 52 | 163 |
| Ginger | Kharif | suprava | Rainfed upland | 92.5 | 45 | 205 |
| * Acacia mangium | Kharif | Seedling | Irrigated medium land | 89cm | - | - |
| * Teak | Kharif | Seedling | Rainfed medium land | 67cm | - | - |
| * A. Mangium, | Kharif | Combination of seedlings | Backyard | 95cm | - | - |
| A. auriculiformis | | | | 72cm | | |
| Teak | | | | 65cm | | |
| Prawn | Kharif | Fresh water prawn SCAMPI seed (PL) | Rainfed low land | 11.62 | - | - |
| Ornamental fish | Kharif | Livebearer ornamental fish | Irrigated medium land | 110nos/PM/tank | - | - |

| Fish | Kharif | Fish and horticultural seedling | Rainfed low land | 35q | 18.2q | 92.3% |
|---------|--------|---------------------------------|------------------|-----------------|------------|-------|
| Poultry | Kharif | Backyard Vanaraja chicks | Rainfed upland | 5.1Kg/bird | 1.3kg/bird | 292% |
| Poultry | Rabi | Backyard Vanaraja chicks | Rainfed upland | Results awaited | - | - |

14. Data presented are height taken from 8 month old plantation.

Technical Feedback on the demonstrated technologies

| Technology | Feed Back |
|---|--|
| Hybrid Papaya (Red Lady) Cultivation | The variety is best suited for table purpose and should not be sold in green stage |
| Cultivation of Improved Yam | Trailing gives best result |
| Cultivation of Turmeric/Ginger | Timely earthing-up is a must for better result |
| Cultivation of Ginger | Rotting problem can be overcome with rhizome treatment and application of neemcake |
| Performance of Acacia mangium | Farmer show keen interest to raise Acacia mangium in field bunds. |
| Development of community plantation | Active participation of the farmers of the village in managing the community plantation shows their keen interest for planting teak & maintaining it. |
| Multipurpose tree species for homesteads | Farmers are interested to plant multipurpose tree species in the backyard which will render them the timber, fuel wood and fodder requirement in the future. |
| Paddy straw mushroom | Paddy straw should be properly disinfected by hot water treatment. |
| Oyster mushroom | Oyster mushroom marketing needs more popularisation. |
| Biocontrol of pest & diseases of sugarcane | Sugarcane variety CO-86032 having high productivity suffers from more wilt and red rot in low lying areas. |
| Backward poultry rearing | Growth & survivability of Vanaraja poultry is good and will give a good engagement to the women farmer. |
| Fresh water prawn culture | Good scope for growth in the fresh water prawn culture in the district. The growth & survivability of prawn is good. |
| Pond based farming system | Farming system will enhance the economic condition of low and marginal farmers. |
| Safe storage of pulses | Pulses should be stored immediately after harvesting. |
| Bee keeping | Bee keeping has lot of scope as the district has good coverage of natural forest. |
| IPM for fruit and shoot borer & weed complex in brinjal | Timely application of pesticides & weedicides has good control over fruit & shoot borer & weed in brinjal. |
| Vermicompost | Vermicompost in tribal pockets of the district adjoining natural forest has a good future as abundant leaf & liters are available. |
| Green manuring in kharif paddy | Green manuring with dhanicha should be encouraged in the district. |

Farmers' reactions on specific technologies

| Technology | Feed Back |
|---|---|
| Biological control of sugarcane borers | Late control of sugarcane borers but giving good results |
| Biological control of paddy stem borer | Biological control should be incorporated with other control measures |
| IPM for fruit and shoot borer in brinjal | Very good control obtained |
| Biological control of groundnut wilt | Late control achieved |
| Weed control in groundnut | All weed flora not controlled by pendimethalene, other herbicide may be tried |
| Dhanicha as green manure | Dhanicha is a very good source of organic fertiliserssss |
| Introduction of Vanaraja backyard poultry | Interested for commercially culture of vanaraja poultry |
| Ornamental fish culture | Gold fish breeding interested |
| Integrated farming system | Interested for poultry in farming system |
| Fresh water prawn culture | Interested for prawn culture (Scampi) in large scale |
| Oyster mushroom cultivation | The taste of oyster mushroom is inferior to paddy straw mushroom. |
| Safe storage of pulses | This storage method should be tested in subsequent years. |
| Paddy straw mushroom cultivation | Spawn should be adequately available in the locality. |
| Development of nutritional garden | There should be water facility for the nutritional garden. |
| Development of medicinal plants | Medicinal garden is helpful to our families |
| Tissue culture banana Cultivation | Dwarf Cavendish suited for the district as it is less prone to wind damage |
| Hybrid papaya cultivation | Marketing is a problem for ripe papaya varieties |
| Cultivation of improved yam | It is well suited for bund planting |
| Cultivation of Elephant foot yam | Taste is good and can replace potato and yam |
| Intercropping in orchards | Should be promoted under cashew /mango plantations |
| Cultivation of Ginger | Rhizome rot resistant varieties should be developed |

Extension and Training activities under FLD

| | | No. of | | | Remarks |
|------------|--------------------------------------|-------------------------|--|--|--|
| Sl. No. | Activity | activities organised | Date | Number of participants | Remarks |
| Crop | Production | | | | |
| 1 | Field days | | | | |
| 2 | Farmers Training | 2 | 10.05.07 27-28.07.07 30.08.07 04.12.07 06-07.02.08 18-19.02.08 | 21 21 25 20 20 25 | |
| 3 | Media coverage | 2 | 18-19.02.08 | 23 | ETV Annadata Doordarshan |
| 4 | Training for extension functionaries | 4 | 31.8.07 10-11.12.07 11-13.03.08 24.03.08 | 20 20 20 20 20 | 200144131411 |
| Horti | culture | | | | |
| 1 | Field days | 1 | 14.09.07 | 100 | |
| 2 | Farmers Training | 5 | 23.05.07 28.07.07 | 25 25 | |
| | | | 25.09.07- 26.09.07 24.03.08- 25.03.08 26.03.08- 27.03.08 | 252525 | |
| 3 | Media coverage | 3 | | | ETV Yuva Bharat ETV Annadata |
| 4 | Training for extension functionaries | 1 | 19.03.08- 20.03.08 | 20 | |
| Plant | protection | | | | |
| 1 | Field days | 1 | 30.12.07 | 50 | |
| 2 | Farmers Training | 4 | 10-11.4.07 25.4.07 10-11.9.07 28-29.01.07 05.02.08 28-29.02.08 03-04.03.08 19-20.03.08 | 25 25 25 25 25 25 25 25 25 25 25 | |
| 3 | Media coverage | 2 | 25.8.07 15.10.07 12.12.07 | | ETV Annadata ETV Annadata ETV Annadata |
| 4 | Training for extension functionaries | 1 | 22-23.11.07 | 20 | |
| Fisher | | | | | |
| 1 | Field days | | | | |
| 2 | Farmers Training | 11 | 19-21.04.07 17-19.05.07 10-11.09.07 20-21.09.07 4-5.6.07 16-17.8.07 4-6.10.07 16-17.10.07 18-19.2.08 17-18.3.08 25-26.3.08 | 22 20 25 25 25 25 20 20 20 25 25 25 | |
| 3 | Media coverage | 2 | 25.08.07 | 20 | ETV Annadata |
| J. | 1/10010 00 101050 | | 23.30.07 | <u> </u> | LI, minuuuu |

| | | | | | ETV Annadata |
|------|------------------------|---|--------------|----------|----------------------|
| 4 | Training for extension | | | | |
| | functionaries | | | | |
| Hon | ne science | | | | |
| 1 | Field days | - | - | = | - |
| 2 | Farmers Training | 8 | 23-24.07.07 | 20 | Demonstrations |
| | | | 30-31.07.07 | 20 | followed by training |
| | | | 2-3.08.07 | 25 | programmes are |
| | | | 7-8.08.07 | 20 | effective. |
| | | | 12-13.11.07 | 20 | |
| | | | 18-19.11.07 | 20 | |
| | | | 18.03.08 | 25 (150) | |
| 3 | Media coverage | 2 | 12.08.07 & - | = | E TV Annadata |
| Fore | estry | | | | |
| 1 | Field days | 1 | 21.09.07 | 50 | On community |
| | | | | | plantation on teak. |
| 2 | Farmers Training | 3 | 27.04.08- | 25 | |
| | | | 28.04.08 | | |
| | | | 26.07.07- | 25 | |
| | | | 27.07.07 | | |
| | | | 12.03.08- | 20 | |
| | | | 15.03.08 | | |
| 3 | Media coverage | | | | |
| 4 | Training for extension | 2 | 30.11.07 | 20 | |
| | functionaries | | 18.12.07 | 20 | |

c. Details of FLD on Enterprises

(i) Farm Implements

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

^{*} Field efficiency, labour saving etc.

(ii) Livestock Enterprises

| Enterprise | Breed | No. of farmers | No. of animals, poultry birds etc. | Performance parameters / indicators | * Data on parameter to technology demo | | % change in the parameter | Remarks |
|------------------|----------|----------------|------------------------------------|---|--|-------|---------------------------|---------|
| Backyard poultry | Vanaraja | 20 | 15 | Growth | 5.1kg/bird(6month) | 1.3kg | 292% | |

^{*} Milk production, meat production, egg production, reduction in disease incidence etc.

(iii) Other Enterprises

| Enterprise | Variety/ breed/Species | No. of farmers | No. of Units | Performance parameters / indicators | Data on pa in relati techno demons | ion to logy | % change in the parameter | Remarks |
|---------------|---------------------------|----------------|-----------------|---|---|----------------|---------------------------|--|
| | /others | | | indicators | Demon. | Local check | | |
| Mushroom | Vovanella Volvacea | 20 | 20 | Technical | 1.6 kg/bed | - | 100 | Accepted enterprise |
| | P. Sajarcaju | 20 | 20 | Technical | 1.4 kg/bag | - | 100 | Taste of oyster mushroom is less acceptable than P.S. mushroom |
| Apiary | | | | | | | | |
| Sericulture | | | | | | | | |
| Vermi compost | | | | | | | | |

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

A) ON Campus

| | No. of | Duration | | | No. | of Partic | | | |
|--------------------------------------|---------|----------|------|--------|-------|-----------|--------|-------|-------|
| Thematic Area | Courses | (days) | | Others | ı | | SC/ST | 1 | Grand |
| | | (44.35) | Male | Female | Total | Male | Female | Total | Total |
| (A) Farmers & Farm Women | | | | | | | | | |
| I Crop Production | | | | | | | | | |
| Resource Conservation Technologies | 1 | 3 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| Production and use of organic inputs | 1 | 1 | 15 | 0 | 15 | 6 | 0 | 6 | 21 |
| II Horticulture | | | | | | | | | |
| a) Vegetable Crops | | | | | 1 | 1 | | 1 | |
| b) Fruits | | | | | | | | | |
| Rejuvenation of old orchards | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| c) Ornamental Plants | 1 | | 25 | | | | | | |
| d) Plantation crops | | | | | | | | | |
| e) Tuber crops | | | | | | | | | |
| f) Spices | | | | | | | | | |
| Production and Management technology | 1 | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| g) Medicinal and Aromatic Plants | | | | | | | | | _ |
| III Soil Health and Fertility | | | | | | | | | |
| Management | | | | | | | | | |
| IV Livestock Production and | | | | • | • | | • | • | |
| Managament | | | | | | | | | |
| Management | | | | | | | | | |
| V Home Science/Women empowerment | | | | | | | | | |
| VI Agril. Engineering | | | | | | | | | |
| VII Plant Protection | | | | | | | | | |
| Integrated Pest Management | 2 | 4 | 50 | 0 | 50 | 0 | 0 | 0 | 50 |
| VIII Fisheries | | | | | | | | | |
| Feeding management in fish pond | 1 | 2 | 15 | 0 | 15 | 1 | 4 | 5 | 20 |
| Aquatic weed control | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| IX Production of Inputs at site | 1 | | 23 | | 23 | 0 | U | | 23 |
| | | | | | | | | | |
| X Capacity Building and Group | | | | | | | | | |
| Dynamics | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | |
| Integrated Farming Systems | 1 | 2 | 24 | 0 | 24 | 1 | 0 | 1 | 25 |
| Production technology | 1 | 2 | 8 | 5 | 13 | 5 | 7 | 12 | 25 |
| TOTAL | 10 | 19 | 212 | 5 | 217 | 13 | 11 | 24 | 241 |
| (B) RURAL YOUTH | | | | | | | | | |
| Production of organic inputs | 1 | 3 | 20 | 0 | 20 | 0 | 0 | 0 | 20 |
| Mushroom Production | 1 | 2 | 0 | 20 | 20 | 0 | 0 | 0 | 20 |
| Value addition | 1 | 2 | 0 | 5 | 5 | 0 | 15 | 15 | 20 |
| Integrated pest management | 1 | 2 | 12 | 2 | 14 | 1 | 5 | 6 | 20 |
| Preparation of aquarium | 1 | 3 | 22 | 0 | 22 | 0 | 0 | 0 | 22 |
| Ornamental fish culture | 1 | 2 | 20 | 0 | 20 | 0 | 0 | 0 | 20 |
| Fish seed production | 1 | 3 | 13 | 0 | 13 | 3 | 4 | 7 | 20 |
| Industrial plantation | 1 | 4 | 19 | 0 | 19 | 1 | 0 | 1 | 20 |
| TOTAL | 8 | 21 | 106 | 27 | 133 | 5 | 24 | 29 | 162 |
| © Extension Personnel | | | 10 | | 10 | - | | | 20 |
| Bamboo production technology | 1 | 2 | 18 | 0 | 18 | 2 | 0 | 2 | 20 |
| Cropping systems | 1 | 3 | 20 | 0 | 20 | 0 | 0 | 0 | 20 |
| TOTAL | 2 | 5 | 38 | 0 | 38 | 2 | 0 | 2 | 40 |

B) OFF Campus

| | No. of | Duration | | | No. o | of Partic | ipants | | |
|--------------------------|---------|----------|--------|--------|-------|-----------|--------|-------|-------|
| Thematic Area | Courses | (days) | Others | | SC/ST | | | Grand | |
| | | (uays) | Male | Female | Total | Male | Female | Total | Total |
| (A) Farmers & Farm Women | | | | | | | | | |
| I Crop Production | | | | | | | | | |
| Weed Management | 2 | 4 | 41 | 0 | 41 | 4 | 0 | 4 | 45 |

| | No. of | | | | No. o | f Participants | | | |
|--|---------|-----------------|----------|--------|----------|----------------|--------|----------|-----------|
| Thematic Area | Courses | Duration (dovs) | | Others | | | SC/ST | | Grand |
| | | (days) | Male | Female | Total | Male | Female | Total | Total |
| Integrated Farming | 1 | 2 | 24 | 0 | 24 | 1 | 0 | 1 | 25 |
| Seed production | 1 | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| Productivity enhancement in field crops Production and use of organic inputs | 1 | <u>1</u> 1 | 23 19 | 0 | 23 19 | 1 | 0 | 1 | 25 20 |
| Integrated nutrient management | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| II Horticulture | 1 | | 23 | | 23 | | 0 | | 23 |
| a) Vegetable Crops | | | | l | I | <u> </u> | | <u> </u> | l . |
| Intercropping | | | | | | | | | |
| Off-season vegetables | 2 | 3 | 25 | | 25 | 25 | | 25 | 50 |
| b) Fruits | | | | | | | | | |
| Management of young plant/orchards | 1 | 2 | 25 | | 25 | | | | 25 |
| Rejuvenation of old orchards | 1 | 2 | 25 | | 25 | | | | 25 |
| c) Ornamental Plants | | | | | | | | | |
| d) Plantation crops | | | | | | | | | |
| e) Tuber crops f) Spices | + | | | | | | | | |
| Processing and value addition | 1 | 2 | 25 | | 25 | | | | 25 |
| g) Medicinal and Aromatic Plants | 1 | <u> </u> | 23 | | 23 | | | | 23 |
| Production and management technology | 1 | 2 | - | 24 | 24 | - | 1 | 1 | 25 |
| III Soil Health and Fertility | | | | | | | | | |
| Management | | | | | | | | | |
| IV Livestock Production and | | | | | | | | | |
| Management | 1 | 2 | 0 | 0 | _ | 0 | 25 | 25 | 25 |
| Backyard poultry | 1 | 2 | 0 | 0 | 0 | 0 | 25 | 25 | 25 |
| V Home Science/Women empowerment | | | | | | | | | |
| Storage loss minimization techniques | 4 | 6 | - | 74 | 74 | - | 26 | 26 | 100 |
| Location specific drudgery reduction | 2 | 2 | _ | 36 | 36 | - | 14 | 14 | 50 |
| technologies Supplementary diet for pre-school | 1 | | | | | | | | |
| children | 1 | 1 | - | - | - | - | 25 | 25 | 25 |
| Use of solar cooker to overcome fuel | 1 | | | | | | | | |
| scarcity | | 1 | - | 21 | 21 | - | 4 | 4 | 25 |
| VI Agril. Engineering | | | | | | | | | |
| VII Plant Protection | | | | | | | | | |
| | _ | 0 | 72 | 0 | 72 | 42 | 10 | 50 | 105 |
| Integrated Pest Management Integrated Disease Management | 5 2 | 9 2 | 73 48 | 0 | 73 48 | 42 | 0 | 52 | 125 50 |
| (others) Control of house and field rats | 2 | 2 | 39 | 8 | 47 | 2 | 1 | 3 | 50 |
| VIII Fisheries | 2 | | 37 | 0 | 47 | 2 | 1 | 3 | 30 |
| | | | 0 | 0 | | | 1.6 | 1.0 | 2.5 |
| Freshwater prawn culture | 1 | 2 | 0 | 9 | 9 | 0 | 16 | 16 | 25 |
| Integrated fish and prawn culture Pond counstruction management in fish | 1 | 2 | 15 | 0 | 15 | 10 | 0 | 10 | 25 |
| culture | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| Control of EUS | 1 | 2 | 0 | 0 | 0 | 25 | 0 | 25 | 25 |
| IX Production of Inputs at site | | | | | | | | | |
| X Capacity Building and Group | | | | | | | | | |
| Dynamics | | | | | | | | | |
| - | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | |
| Production technologies | 2 | 3 | 47 | 0 | 47 | 3 | 0 | 3 | 50 |
| XII Others (Pl. Specify) | | | | | | | | | |
| TOTAL | 37 | 58 | 504 | 172 | 676 | 117 | 122 | 239 | 915 |
| (B) RURAL YOUTH | | | | | | | | | |
| Mushroom Production | 6 | 12 | 40 | 74 | 114 | 0 | 6 | 6 | 120 |
| Vermi-culture | 1 | 2 | 0 | 20 | 20 | 0 | 0 | 0 | 20 |
| Value addition | 2 | 3 | 0 | 20 | 20 | 0 | 20 | 20 | 40 |
| Ornamental fisheries | 1 | 3 | 20 | 0 | 20 | 0 | 0 | 0 | 20 |
| Leadership development and SHG formation | 2 | 4 | 39 | 0 | 39 | 6 | 0 | 6 | 45 |
| Group dynamics | 3 | 6 | 42 | 0 | 42 | 18 | 0 | 18 | 60 |
| TOTAL | 15 | 33 | 141 | 114 | 255 | 24 | 26 | 50 | 305 |
| © Extension Personnel | | | t | | | | | | |

| | No. of | Duration | | | No. o | of Partic | ipants | | |
|------------------------------------|---------|----------|------|--------|-------|-----------|--------|-------|-------|
| Thematic Area | Courses | | | Others | | | SC/ST | | Grand |
| | | (days) | Male | Female | Total | Male | Female | Total | Total |
| Resource conservation technologies | 1 | 1 | 16 | 0 | 16 | 4 | 0 | 4 | 20 |
| Integrated crop management | 1 | 1 | 18 | 0 | 18 | 2 | 0 | 2 | 20 |
| Integrated Nutrient management | 1 | 2 | 20 | 0 | 20 | 0 | 0 | 0 | 20 |
| Biocontrol of pests and diseases | 1 | 2 | 15 | 5 | 20 | 0 | 0 | 0 | 20 |
| Rejuvenation of old orchards | 1 | 2 | 18 | 2 | 20 | 0 | 0 | 0 | 20 |
| Protected cultivation technology | 1 | 1 | 21 | 4 | 25 | 0 | 0 | 0 | 25 |
| Commercial floriculture | 1 | 2 | 21 | 4 | 25 | 0 | 0 | 0 | 25 |
| Group Dynamics and farmers | 1 | 2 | 18 | 0 | 18 | 2 | 0 | 2 | 20 |
| organization | | 2 | 10 | U | 10 | 2 | U | 2 | 20 |
| Extension methods | 1 | 2 | 17 | 0 | 17 | 3 | 0 | 3 | 20 |
| Enterprunership development | 1 | 2 | 16 | 0 | 16 | 4 | 0 | 4 | 20 |
| Reservoir fisheries management | | | | | | | | | |
| Natural resource management | 1 | 1 | 18 | 0 | 18 | 2 | 0 | 2 | 20 |
| Watershed management | 1 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 20 |
| Environmental pollution | 1 | 1 | 19 | 0 | 19 | 1 | 0 | 1 | 20 |
| TOTAL | 13 | 20 | 237 | 15 | 252 | 18 | 0 | 18 | 270 |

C) Consolidated table (On and Off Campus)

| C) Consolidated table (On and | No. of | | | | No. o | of Partic | ipants | | |
|---|---------|----------|------|--------|-------|-----------|--------|-------|-------|
| Thematic Area | Courses | Duration | | Others | | | SC/ST | | Grand |
| | | (days) | Male | Female | Total | Male | Female | Total | Total |
| (A) Farmers & Farm Women | | | | | | | | | |
| I Crop Production | | | | | | | | | |
| Weed Management | 2 | 4 | 41 | 0 | 41 | 4 | 0 | 4 | 45 |
| Integrated Farming | 1 | 2 | 24 | 0 | 24 | 1 | 0 | 1 | 25 |
| Seed production | 1 | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| Productivity enhancement in field crops | 1 | 1 | 23 | 0 | 23 | 2 | 0 | 2 | 25 |
| Production and use of organic inputs | 2 | 2 | 34 | 0 | 34 | 7 | 0 | 7 | 41 |
| Integrated nutrient management | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| Resource conservation technology | 1 | 3 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| II Horticulture | | | | | | | | | |
| a) Vegetable Crops | | | | | | | | | |
| Off-season vegetables | 2 | 3 | 25 | 0 | 25 | 25 | 0 | 25 | 50 |
| Intercropping | | | | | | | | | |
| b) Fruits | | | | | | | | | |
| Rejuvenation of old orchards | 2 | 4 | 50 | 0 | 50 | 0 | 0 | 0 | 50 |
| Mgmt. of young plantation / orchard | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| f) Spices | | | | | | | | | |
| Production and Management technology | 1 | 1 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| Processing and value addition | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 |
| III Soil Health and Fertility | | | | | | | | | |
| Management | | | | | | | | | |
| Production and use of organic inputs | | | | | | | | | |
| c) Ornamental Plants | | | | | | | | | |
| d) Plantation crops | | | | | | | | | |
| e) Tuber crops | | | | | | | | | |
| f) Spices | | | | | | | | | |
| g) Medicinal and Aromatic Plants | | | | | | | | | |
| Production and management technology | 1 | 2 | 0 | 24 | 24 | 0 | 1 | 1 | 25 |
| III Soil Health and Fertility | | | | | | | | | |
| Management | | | | | | | | | |
| IV Livestock Production and | | | | | | | | | |
| Management | | | | | | | | | |
| Backyard poultry | 1 | 2 | 0 | 0 | 0 | 0 | 25 | 25 | 25 |
| V Home Science/Women empowerment | | | | | | | | | |
| Storage loss minimization techniques | 4 | 6 | - | 74 | 74 | - | 26 | 26 | 100 |
| Location specific drudgery reduction technologies | 2 | 2 | - | 36 | 36 | - | 14 | 14 | 50 |
| Supplementary diet for pre-school children | 1 | 1 | - | - | - | - | 25 | 25 | 25 |
| Use of solar cooker to overcome fuel scarcity | 1 | 1 | - | 21 | 21 | - | 4 | 4 | 25 |

| | No. of | D 41 | | | No. o | of Partic | | | | |
|--|---------|-----------------|------|--------|-------|-----------|--------|-------|-------|--|
| Thematic Area | Courses | Duration (deva) | | Others | | | SC/ST | | Grand | |
| | | (days) | Male | Female | Total | Male | Female | Total | Total | |
| VI Agril. Engineering | | | | | | | | | | |
| VII Plant Protection | | | | | | | | | | |
| Integrated Pest Management | 7 | 13 | 123 | 0 | 123 | 42 | 10 | 52 | 175 | |
| Integrated Disease Management | 2 | 2 | 48 | 0 | 48 | 2 | 0 | 2 | 50 | |
| (others) Control of house and field rats | 2 | 2 | 39 | 8 | 47 | 2 | 1 | 3 | 50 | |
| VIII Fisheries | | | | | | | | | | |
| Feeding management in fish pond | 1 | 2 | 15 | 0 | 15 | 1 | 4 | 5 | 20 | |
| Aquatic weed control | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | |
| Freshwater prawn culture | 1 | 2 | 0 | 9 | 9 | 0 | 16 | 16 | 25 | |
| Integrated fish and prawn culture | 1 | 2 | 15 | 0 | 15 | 10 | 0 | 10 | 25 | |
| Pond constructions management in fish | 1 | 2 | 25 | 0 | 25 | 0 | 0 | 0 | 25 | |
| Control of EUS | 1 | 2 | 0 | 0 | 0 | 25 | 0 | 25 | 25 | |
| IX Production of Inputs at site | 1 | | U | U | U | 23 | U | 23 | 23 | |
| X Capacity Building and Group | | | | | | | | | | |
| Dynamics | | | | | | | | | | |
| XI Agro-forestry | | | | | | | | | | |
| Production technologies | 3 | 5 | 55 | 5 | 60 | 8 | 7 | 15 | 75 | |
| Integrated Farming Systems | 1 | 2 | 24 | 0 | 24 | 1 | 0 | 1 | 25 | |
| TOTAL | 47 | 77 | 716 | 177 | 893 | 130 | 133 | 263 | 1156 | |
| (B) RURAL YOUTH | | | | | | | | | | |
| Production of organic inputs | 1 | 3 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | |
| Mushroom Production | 7 | 14 | 40 | 94 | 134 | 0 | 6 | 6 | 140 | |
| Value addition | 3 | 5 | 0 | 25 | 25 | 0 | 35 | 35 | 60 | |
| Integrated pest management | 1 | 2 | 12 | 2 | 14 | 1 | 5 | 6 | 20 | |
| Preparation of aquarium | 1 | 3 | 22 | 0 | 22 | 0 | 0 | 0 | 22 | |
| Ornamental fish culture | 2 | 5 | 40 | 0 | 40 | 0 | 0 | 0 | 40 | |
| Fish seed production | 1 | 3 | 13 | 0 | 13 | 3 | 4 | 7 | 20 | |
| Industrial plantation | 1 | 4 | 19 | 0 | 19 | 1 | 0 | 1 | 20 | |
| Vermi-culture | 1 | 2 | 0 | 20 | 20 | 0 | 0 | 0 | 20 | |
| Leadership development and SHG formation | 2 | 4 | 39 | 0 | 39 | 6 | 0 | 6 | 45 | |
| Group dynamics | 3 | 6 | 42 | 0 | 42 | 18 | 0 | 18 | 60 | |
| TOTAL | 23 | 54 | 247 | 141 | 388 | 29 | 50 | 79 | 465 | |
| 101111 | | | | | 200 | | | | 100 | |
| (C) Extension Personnel | | | | | | | | | | |
| Resource conservation technologies | 1 | 1 | 16 | 0 | 16 | 4 | 0 | 4 | 20 | |
| Integrated crop management | 1 | 1 | 18 | 0 | 18 | 2 | 0 | 2 | 20 | |
| Integrated Nutrient management | 1 | 2 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | |
| Biocontrol of pests and diseases | 1 | 2 | 15 | 5 | 20 | 0 | 0 | 0 | 20 | |
| Rejuvenation of old orchards | 1 | 2 | 18 | 2 | 20 | 0 | 0 | 0 | 20 | |
| Protected cultivation technology | 1 | 1 | 21 | 4 | 25 | 0 | 0 | 0 | 25 | |
| Commercial floriculture | 1 | 2 | 21 | 4 | 25 | 0 | 0 | 0 | 25 | |
| Group Dynamics and farmers | 1 | 2 | 18 | 0 | 18 | 2 | 0 | 2 | 20 | |
| organization | | | | | | | | | | |
| Extension methods | 1 | 2 | 17 | 0 | 17 | 3 | 0 | 3 | 20 | |
| Enterprunership development | 1 | 2 | 16 | 0 | 16 | 4 | 0 | 4 | 20 | |
| Reservoir fisheries management | - | | 10 | | 10 | 2 | | 2 | 20 | |
| Natural resource management | 1 | 1 | 18 | 0 | 18 | 2 | 0 | 2 | 20 | |
| Watershed management | 1 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 20 | |
| Environmental pollution | 1 | 1 | 19 | 0 | 19 | 1 | 0 | 1 | 20 | |
| Cropping systems | 1 | 3 | 20 | 0 | 20 | 0 | 0 | 0 | 20 | |
| Bamboo production technology | 1 | 2 | 18 | 0 | 18 | 20 | 0 | 20 | 20 | |
| TOTAL | 15 | 25 | 275 | 15 | 290 | 20 | 0 | 20 | 310 | |

| Date | Clientele | Title of the training programme | Duration in days | Venue (Off / On | Number of participants Other | | Numbe | er of SC/ST | | |
|---------|------------------------------|---|------------------|--------------------|---------------------------------|--------|-------|-------------|--------|-------|
| | | | | Campus) | Male | Female | Total | Male | Female | Total |
| 10.5.07 | Farmers and Farm Women | Green manuring Dhanicha in direct seeded kharif paddy | 1 | On | 15 | - | 15 | 6 | - | 6 |

| 23-24.7.07 | Farmers and Farm Women | Intercropping in rainfed upland kharif paddy | 2 | Off | 11 | - | 11 | 14 | - | 14 |
|-------------------------|------------------------------|---|-----|-----------|----------|----|----------|-----|----|----|
| 27-28.7.07 | Farmers and Farm Women | Integrated weed control in groundnut | 2 | Off | 24 | - | 24 | 1 | - | 1 |
| 30.8.07 | Farmers and Farm Women | Use of fertilizer broadcaster | 1 | Off | 23 | - | 23 | 2 | - | 2 |
| 31.8.07 | Extn. Personnel | Sugarcane production technology | 1 | Off | 18 | - | 18 | 2 | - | 2 |
| 4.12.07 | farmer | Use of bioinnoculant in pulses | 1 | Off | 19 | - | 19 | 1 | - | 1 |
| 10-11.12.07 | Inservice | Nutrient management in organic farming | 2 | Off | 20 | - | 20 | - | - | - |
| 12-13.12.07 | farmers | Planting technique in sugarcane | 2 | On | 25 | - | 25 | - | - | - |
| 06-07.2.08 | farmer | Integrated weed mgmt. in spring planted sugarcane. | 2 | Off | 17 | - | 17 | 3 | - | 3 |
| 18-19.2.08 | Farmer | Nitrogen mgmt. in spring planted sugarcane | 2 | Off | 25 | - | 25 | - | - | - |
| 28.02.08- | Rural youth | Production and marketing | 3 | On | 20 | - | 20 | - | - | - |
| 01.03.08 11-13.03.08 | Inservice | of Azolla and BGA Farming system adopted in | 3 | On | 20 | - | 20 | - | - | - |
| 24.03.08 | Inservice | organic farming Management of acid soil | 1 | Off | 16 | - | 4 | 4 | _ | 4 |
| 29.03.08 | Farmer | Hand pollination to increase seed setting in sunflower. | 1 | Off | 25 | - | 25 | - | - | - |
| 10-11.04.07 | Farmers and Farm Women | IPM for fruit and shoot borer in brinjal | 2 | Off | 24 | - | 24 | 1 | - | 1 |
| 25.04.07 | Farmers and Farm Women | Control of house and field rats | 1 | Off | 24 | - | 24 | 1 | - | 1 |
| 25.07.07 | Farmers and Farm Women | Wilt management in groundnut | 1 | Off | 25 | - | 25 | - | - | - |
| 27.07.07 | Farmers and Farm Women | Wilt management in solanaceous crops | 1 | Off | 23 | - | 23 | 2 | - | 2 |
| 29.08.07 | Farmers and Farm Women | Management of stem borer in rice | 1 | Off | 24 | - | 24 | 1 | - | 1 |
| 30-31.08.07 | Rural youth | Mushroom production for rural employment | 2 | Off | 20 | - | 20 | - | - | - |
| 10-11.09.07 | Farmers and Farm Women | IPM for control of BPH in rice | 2 | Off | 25 | - | 25 | - | - | - |
| 21-22.09.07 | Rural Youth | Mushroom production for rural employment | 2 | Off | 19 | - | 19 | 1 | - | 1 |
| 22-23.11.07 | Inservice | Use of bio pesticides and botanicals for pest management in organic farming | 2 | Off | 15 | 5 | 20 | - | - | - |
| 10-11.12.07 | Farmer | Pest mgmt in cole crop | 2 | On | 25 | - | 25 | - | - | - |
| 28-29.01.08 | farmer | Pest mgmt in sugarcane | 2 | On | 25 | - | 25 | - 1 | - | - |
| 05.02.08 28-29.02.08 | farmer Rural youth | Rodent mgmt in agriculture IPM in sugarcane | 1 2 | Off On | 15 12 | 8 | 23 14 | 1 | 5 | 6 |
| 03-04.03.08 | farmer | IPM in sugarcane IPM in pulses | 2 | Off | - | - | - | 20 | 5 | 25 |
| 19-20.03.08 | Farmer | IPM in brinjal | 2 | Off | - | - | 1- | 20 | 5 | 25 |
| 27-28.04.07 | Farmers and Farm Women | Control of sotregrain pests. | 2 | Off | - | 25 | 25 | - | - | - |
| 14-15.05.07 | Farmers and Farm Women | Control of house rats | 2 | Off | - | 25 | 25 | - | - | - |
| 25.05.07 | Rural – Youth | Value addition to mango | 1 | Off | - | - | - | - | 20 | 20 |
| 23-24.07.07 | Rural Youth | Commercial cultivation of paddy straw mushroom | 2 | Off | - | 19 | 19 | - | 1 | 1 |
| 30-31.07.07 | Rural Youth | Commercial cultivation of paddy straw mushroom | 2 | On | - | 20 | 20 | - | - | - |
| 2-3.08.07 | Farmers and Farm Women | Medicinal plants for home garden | 2 | Off | - | 24 | 24 | - | 1 | 1 |
| 7-8.08.07 | Rural Youth | Commercial cultivation of paddy straw mushroom | 2 | Off | - | 20 | 20 | - | - | - |

| 20-21.09.07 12-13.11.07 18-19.12.07 | D 137 .1 | 77 ' ' 1 ' | 2 | 0.00 | | 20 | 20 | | | |
|--|--|--|-------------------------|--|--|----------------------------------|--|---------------------------------|-----------------------|---------------------------------|
| | Rural Youth | Vermi compost production | 2 | Off | - | 20 | 20 | - | - | - |
| 18-19 12 07 | Rural youth | Commercial cultivation of | 2 | Off | - | 20 | 20 | - | - | - |
| 18-19 12 07 | | oyster mushroom | | | | | | | | |
| | Rural youth | Commercial cultivation of | 2 | Off | - | 15 | 15 | - | 5 | 5 |
| 10 19.112.07 | rturur youtin | oyster mushroom | _ | 0.11 | | 10 | 10 | | | |
| 30-31.1.08 | D141- | , , | _ | 0 | | - | - | | 1.5 | 1.5 |
| 30-31.1.08 | Rural youth | Value addition to | 2 | On | - | 5 | 5 | - | 15 | 15 |
| | | vegetables (Tomato) | | | | | | | | |
| 13-14.2.08 | Rural youth | Value addition to | - | Off | - | 20 | 20 | - | - | - |
| | - | vegetables(Tomato) | | | | | | | | |
| 16.2.08 | Farmers and | Use of manual winnower | 1 | Off | _ | 25 | 25 | _ | - | - |
| 10.2.00 | Farm | Osc of mandar willhower | 1 | OII | _ | 23 | 23 | _ | - | _ |
| | | | | | | | | | | |
| | Women | | | | | | | | | |
| 25.2.08 | Farmers and | Control of house rats | 1 | Off | - | 24 | 24 | - | 1 | 1 |
| | Farm | | | | | | | | | |
| | Women | | | | | | | | | |
| 18.3.08 | Farmers and | ITK of store grain pests | 1 | Off | - | _ | - | - | 25 | 25 |
| 10.0.00 | Farm | Titi of store gram pests | 1 | 0.11 | | | | | 1 -5 | 20 |
| | Women | | | | | | | | | |
| | | | . | | | | | | | |
| 19.3.08 | Farmers and | Supplementary diet for pre- | 1 | Off | - | - | - | - | 25 | 25 |
| | Farm | school children | | | | | | | | |
| | Women | | | | | | | | | |
| 28.3.08 | Farmers and | Use of solar cooker to | 1 | Off | - | 21 | 21 | - | 4 | 4 |
| 20.0.00 | Farm | overcome fuel scarcity | 1 | 0.11 | | | | | | |
| | Women | overcome ruer scarcity | | | | | | | | |
| 20.2.00 | | *** 6 111 | | 0.00 | | | | | | 1.1 |
| 29.3.08 | Farmers and | Use of paddle operated | 1 | Off | - | 11 | 11 | - | 14 | 14 |
| | Farm | paddy thresher | | | | | | | | |
| | Women | | 1 | | | | | | | |
| 16.10.07 | farmer | Feeding management in | 2 | on | 15 | 0 | 15 | 1 | 4 | 5 |
| 10.10.07 | Turriner | fish pond | _ | on . | 13 | | 13 | 1 | ' | |
| 17.2.00 | £ | | 2 | | 25 | 0 | 25 | 0 | 0 | 0 |
| 17.3.08 | farmers | Aquatic weed control | 2 | on | 25 | 0 | 25 | 0 | 0 | 0 |
| 4.10.07 | Rural youth | Fish seed production | 3 | on | 13 | - | 13 | 3 | 4 | 7 |
| 14.2.08 | Farmers | Backyard poultry | 2 | off | 0 | 0 | 0 | 0 | 25 | 25 |
| 19.04.07 | Rural youth | Preparation of aquarium | 3 | On campus | 22 | 0 | 22 | 0 | 0 | 0 |
| 17.05.07 | Rural youth | Ornamental fish culture | 3 | Off | 20 | 0 | 20 | 0 | 0 | 0 |
| 17.03.07 | Kurar youtii | Ornamental fish culture | 3 | - | 20 | | 20 | U | | U |
| | | | | campus | | | | | | <u> </u> |
| 04.06.07 | Farmer | Pond counstruction and | 2 | Off | 25 | 0 | 25 | 0 | 0 | 0 |
| | | management in fish culture | | campus | | | | | | |
| 16.08.07 | Farmer | Predatory and weed fish | 2 | Off | 25 | 0 | 25 | 0 | 0 | 0 |
| | | management | | campus | _ | | _ | | | - |
| 10.09.07 | Farmer | Freshwater prawn culture | 2 | Off | 0 | 25 | 25 | 0 | 16 | 16 |
| 10.09.07 | ranner | riesiiwatei piawii cuitule | 2 | - | U | 23 | 23 | U | 10 | 10 |
| 20.00.05 | _ | 7 | | campus | 2.5 | | 2.5 | 4.0 | | 10 |
| 20.09.07 | Farmer | Integrated fish and prawn | 2 | Off | 25 | 0 | 25 | 10 | 0 | 10 |
| | | culture | | campus | | | | | | |
| 18.2.08 | Farmers | Control of EUS | 2 | OFF | 0 | 0 | 0 | 25 | 0 | 25 |
| 27.04.07- | In Service | Commercial Floriculture | 2 | Off | 22 | 3 | 25 | 0 | 0 | 0 |
| 28.04.07 | | | | | | | _ | | | |
| 23.05.07 | Farmer | Raising of Kharif Onion | 1 | Off | 25 | 0 | 25 | 0 | 0 | 0 |
| | | | 1 | | | - | | | | - |
| 26.07.07- | Farmer | Raising | 2 | Off | 0 | 0 | 0 | 25 | 0 | 25 |
| 27 07 07 | | | _ | | | 0 | | | - | |
| 27.07.07 | | cauliflower/cabbage as a | | | | | | | | |
| 21.01.01 | | cauliflower/cabbage as a | | | | | | | | |
| | Farmer | cauliflower/cabbage as a catch crop | | On | 25 | | 25 | 0 | 0 | 0 |
| 28.07.07 | Farmer | cauliflower/cabbage as a catch crop Raised bed planting | 1 | On | 25 | 0 | 25 | 0 | 0 | 0 |
| | Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and | | On | 25 | | 25 | 0 | 0 | 0 |
| | Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and | | On | 25 | | 25 | 0 | 0 | 0 |
| 28.07.07 | | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric | 1 | | | 0 | | | | |
| 28.07.07 | Farmer Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and | | On | 25 | | 25 | 0 | 0 | 0 |
| 28.07.07 30.08.07- 31.08.07 | Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards | 1 2 | On | 25 | 0 | 25 | 0 | 0 | 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- | | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and | 1 | | | 0 | | | | |
| 28.07.07 30.08.07- 31.08.07 | Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards | 1 2 | On Off | 25 | 0 0 | 25 | 0 | 0 | 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 | Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and | 1 2 | On | 25 | 0 | 25 | 0 | 0 | 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- | Farmer Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of | 2 2 | On Off | 25 25 | 0 0 | 25 25 | 0 | 0 | 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 | Farmer Farmer Inservice | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop | 2 2 | On Off off | 25 25 21 | 0 0 0 04 | 25 25 25 | 0 0 | 0 0 | 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07- | Farmer Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for | 2 2 | On Off | 25 25 | 0 0 | 25 25 | 0 | 0 | 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 | Farmer Farmer Inservice | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit | 2 2 | On Off off | 25 25 21 | 0 0 0 04 | 25 25 25 | 0 0 | 0 0 | 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07- 19.11.07- 22.11.07 | Farmer Farmer Inservice Rural youth | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling | 1 2 2 1 | On Off Off Off | 25 25 21 20 | 0 0 0 04 0 | 25 25 25 20 | 0 0 0 | 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 | Farmer Farmer Inservice | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with | 2 2 | On Off off | 25 25 21 | 0 0 0 04 | 25 25 25 | 0 0 | 0 0 | 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 | Farmer Farmer Inservice Rural youth | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling | 1 2 2 1 | On Off Off Off | 25 25 21 20 | 0 0 0 04 0 | 25 25 25 20 | 0 0 0 | 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07- 19.11.07- 22.11.07 | Farmer Farmer Inservice Rural youth | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation | 1 2 2 1 | On Off Off Off | 25 25 21 20 | 0 0 0 04 0 | 25 25 25 20 | 0 0 0 | 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 | Farmer Farmer Inservice Rural youth Inservice | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards | 1 2 2 1 4 | On Off Off Off Off | 25 25 21 20 | 0 0 0 04 0 2 | 25 25 25 20 20 | 0 0 0 | 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08- | Farmer Farmer Inservice Rural youth | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of | 1 2 2 1 | On Off Off Off | 25 25 21 20 | 0 0 0 04 0 | 25 25 25 20 | 0 0 0 | 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 | Farmer Farmer Inservice Rural youth Inservice Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard | 1 2 2 1 4 | On Off Off Off Off Off | 25 25 21 20 18 | 0 0 0 04 0 | 25 25 25 20 20 20 | 0 0 0 0 | 0 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 26.03.08- | Farmer Farmer Inservice Rural youth Inservice | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric | 1 2 2 1 4 | On Off Off Off Off | 25 25 21 20 | 0 0 0 04 0 2 | 25 25 25 20 20 | 0 0 0 | 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 26.03.08- 27.03.08 | Farmer Farmer Inservice Rural youth Inservice Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing | 1 2 2 1 4 2 2 2 2 2 | On Off Off Off Off Off Off | 25 25 21 20 18 20 21 | 0 0 0 04 0 | 25 25 25 20 20 20 21 | 0 0 0 0 0 0 4 | 0 0 0 0 | 0 0 0 0 0 0 4 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 26.03.08- | Farmer Farmer Inservice Rural youth Inservice Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric | 1 2 2 1 4 | On Off Off Off Off Off | 25 25 21 20 18 | 0 0 0 04 0 | 25 25 25 20 20 20 | 0 0 0 0 | 0 0 0 0 | 0 0 0 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 26.03.08- 27.03.08 27.04.07 & | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium | 1 2 2 1 4 2 2 2 2 2 | On Off Off Off Off Off Off | 25 25 21 20 18 20 21 | 0 0 0 04 0 2 | 25 25 25 20 20 20 21 | 0 0 0 0 0 0 4 | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 4 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 27.04.07 & 28.04.07 | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium for profit maximization | 1 2 2 1 4 2 2 2 2 2 2 2 | On Off Off Off Off Off Off Off Off | 25 25 21 20 18 20 21 23 | 0 0 0 04 0 2 | 25 25 25 20 20 20 21 23 | 0 0 0 0 0 | 0 0 0 0 0 0 0 - | 0 0 0 0 0 0 4 2 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 26.03.08- 27.03.08 27.04.07 & | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium for profit maximization Growing Eucalyptus | 1 2 2 1 4 2 2 2 2 2 | On Off Off Off Off Off Off Off Off Off O | 25 25 21 20 18 20 21 | 0 0 0 04 0 2 | 25 25 25 20 20 20 21 | 0 0 0 0 0 0 4 | 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 4 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08- 27.04.07 & 28.04.07 & 28.04.07 & 30.05.07 | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer Farmer Farmers | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium for profit maximization Growing Eucalyptus industrial use | 1 2 2 1 4 2 2 2 1 1 | On Off Off Off Off Off Off Off Off campus Off campus | 25 25 21 20 18 20 21 23 24 | 0 0 0 04 0 2 0 | 25 25 25 20 20 20 21 23 24 | 0 0 0 0 0 4 2 | 0 0 0 0 0 | 0 0 0 0 0 4 2 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 27.03.08 27.04.07 & 28.04.07 30.05.07 | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer Farmer | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium for profit maximization Growing Eucalyptus industrial use Agroforestry system for | 1 2 2 1 4 2 2 2 2 2 2 2 | On Off Off Off Off Off Off Off Off Off O | 25 25 21 20 18 20 21 23 | 0 0 0 04 0 2 | 25 25 25 20 20 20 21 23 | 0 0 0 0 0 | 0 0 0 0 0 0 0 - | 0 0 0 0 0 0 4 2 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08- 27.04.07 & 28.04.07 & 28.04.07 & 30.05.07 | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer Farmer Farmers | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium for profit maximization Growing Eucalyptus industrial use | 1 2 2 1 4 2 2 2 1 1 | On Off Off Off Off Off Off Off Off campus Off campus | 25 25 21 20 18 20 21 23 24 | 0 0 0 04 0 2 0 | 25 25 25 20 20 20 21 23 24 | 0 0 0 0 0 4 2 | 0 0 0 0 0 | 0 0 0 0 0 4 2 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 27.03.08 27.04.07 & 28.04.07 30.05.07 | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer Farmer Farmers | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium for profit maximization Growing Eucalyptus industrial use Agroforestry system for | 1 2 2 1 4 2 2 2 1 1 | On Off Off Off Off Off Off Off Off campus Off campus | 25 25 21 20 18 20 21 23 24 | 0 0 0 04 0 2 0 | 25 25 25 20 20 20 21 23 24 | 0 0 0 0 0 4 2 | 0 0 0 0 0 | 0 0 0 0 0 4 2 |
| 28.07.07 30.08.07- 31.08.07 25.09.07- 26.09.07 23.11.07 19.11.07- 22.11.07 19.03.08- 20.03.08 24.03.08- 25.03.08 27.04.07 & 28.04.07 30.05.07 | Farmer Farmer Inservice Rural youth Inservice Farmer Farmer Farmer Farmers | cauliflower/cabbage as a catch crop Raised bed planting of ginger and turmeric Rejuvenation of old and sick mango orchards Rejuvenation of old and sick mango orchards Protected cultivation of high value season crop Propagation technique for raising improved fruit sapling Orchard mgmt. with reference to rejuvenation for old mango orchards Care and maintenance of existing cashew orchard Value addition to turmeric through curing Growing Acacia mangium for profit maximization Growing Eucalyptus industrial use Agroforestry system for rainfed as well as irrigated | 1 2 2 1 4 2 2 2 1 1 | On Off Off Off Off Off Off Off Off campus Off campus | 25 25 21 20 18 20 21 23 24 | 0 0 0 04 0 2 0 | 25 25 25 20 20 20 21 23 24 | 0 0 0 0 0 4 2 | 0 0 0 0 0 | 0 0 0 0 0 4 2 |

| | | | | campus | | | | | | |
|-----------------------|-------------|--|---|---------------|----|---|----|---|---|----|
| 30.11.07 | Insevice | Watershed management | 1 | Off campus | 20 | 0 | 20 | 0 | 0 | 0 |
| 18.12.07 | Insevice | Natural resource management | 1 | Off campus | 18 | 0 | 18 | 2 | 0 | 2 |
| 17.03.08 &18.03.08 | Insevice | Bamboo plantation technology | 2 | On campus | 18 | 0 | 18 | 2 | 0 | 2 |
| 19.03.08& 20.03.08 | Farmer | Propagation of bamboo through culm cutting method | 2 | On campus | 8 | 5 | 13 | 5 | 7 | 12 |
| 12.03.08& 15.03.08 | Rural youth | Indusrial plantation of eucalyptus, bamboo, mangium and gamhar | 4 | On campus | 19 | 0 | 19 | 1 | 0 | 1 |
| 24.04.07& 25.04.07 | Rural youth | Organizing Farmers' Club | 2 | Off campus | 11 | 0 | 11 | 9 | 0 | 9 |
| 26.07.07& 27.07.07 | Rural youth | Effective functioning of SHG for boosting rural economy | 2 | Off campus | 23 | 0 | 23 | 2 | 0 | 2 |
| 27.09.07& 28.09.07 | Rural youth | Group approach in NRM and Conservation | 2 | Off campus | 14 | 0 | 14 | 6 | 0 | 6 |
| 29.11.07& 30.11.07 | Insevice | Community involvement in successful organic farming. | 2 | Off campus | 18 | 0 | 18 | 2 | 0 | 2 |
| 13.02.08& 14.02.08 | Insevice | Technique of conducting Field Demonstration | 2 | Off campus | 17 | 0 | 17 | 3 | 0 | 3 |
| 19.02.08& 20.02.08 | Insevice | Agro-consultancy services for entrepreneurship development. | 2 | Off campus | 16 | 0 | 16 | 4 | 0 | 4 |
| 28.02.08& 29.02.08 | Rural youth | Group dynamics in farmer organization | 2 | Off campus | 17 | 0 | 17 | 3 | 0 | 3 |
| 01.03.08& 02.03.08 | Rural youth | Importance of formation and mgmt of SHG | 2 | Off campus | 16 | 0 | 16 | 4 | 0 | 4 |

(D) Vocational training programmes for Rural Youth(01.04.07-31.03.08)

| | | | | No. | of Particip | ants | Self em | ployed after | training | Number |
|----------------------|---|---|--------------------|------|-------------|-------|---------------|--------------------|----------------------------|--------------------------------------|
| Crop / Enterprise | Identified Thrust Area | Training title* | Duration (days) | Male | Female | Total | Type of units | Number of units | Number of persons employed | of persons employed else where |
| 1. Bee keeping. | Abundant forest flora for Apiculture. | Bee keeping for self- employment | 5 | 20 | - | 20 | Homestead | 30 | 6 | - |
| 2.Organic manures | Unutilzation of organic wastes | Organic waste recycling and production of enriched compost. | 5 | 15 | 5 | 20 | Homestead | 10 | 3 | 1 |
| 3.Vermicompost | Unutilised straws and other bio degradable products | Vermicompost production | 5 | 20 | 0 | 20 | Homestead | 13 | 2 | - |
| 4. Forest nursery | Income generation activity for Rural Youth and production of quality propagation material. | Development and maintenance of forest nursery & raising of quality propagation material. | 5 | 20 | - | 20 | - | - | - | |

(E) Sponsored Training Programmes

| | | | | Durati | Client | No. of | | | No. of | Particij | oants | | | |
|-------|----------|---------|-------|--------|--------|--------|------|-------------|--------|----------|-------|-------|-----|--------------|
| Sl. | Title | Themat | Month | on | PF/RY/ | | N | Male | Fen | nale | | Total | | Sponsoring |
| No | Title | ic area | Month | (days) | EF | course | Othe | SC/ST | Othe | SC/ | Other | SC/S | Tot | Agency |
| | | | | (uays) | Er | 3 | rs | SC/S1 | rs | ST | S | T | al | |
| Plast | iculture | | Dec. | 2 | Farmer | 1 | 26 | 0 | 0 | 0 | 26 | 0 | 26 | Dept. of |
| Preci | sion | | | | | | | | | | | | | horticulture |
| and | precisi | on | | | | | | | | | | | | |
| farm | ing | | | | | | | | | | | | | |
| farm | ning | | | | | | | | | | | | | |

3.4. Extension Activities (including activities of FLD programmes)

| 3.4. Extension Activities | No. of | , 4017111 | Farmers | Program | | ension Offic | rials | Total | | |
|---|------------|-----------|---------|---------|------|--------------|-------|-------|--------|-------|
| Nature of Extension Activity | activities | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Field Day | 5 | 147 | 83 | 230 | - | - | - | - | - | 230 |
| Kisan Mela | 1 | 85 | - | 85 | 15 | _ | 15 | 100 | _ | 100 |
| Kisan Ghosthi | 2 | 20 | 10 | 30 | 10 | 5 | 15 | 30 | 15 | 45 |
| Exhibition | 1 | 120 | 80 | 200 | - | - | - | - | - | 200 |
| Film Show | 30 | 650 | 50 | 700 | 50 | | 50 | 700 | 50 | 750 |
| Method Demonstrations | | | | | | | | | | |
| Farmers Seminar | 1 | 300 | 50 | 350 | 10 | 5 | 15 | 310 | 55 | 365 |
| Workshop | | | | | | | _ | | | |
| Group meetings | 62 | 352 | 105 | 457 | 13 | 1 | 14 | 365 | 106 | 471 |
| Lectures delivered as resource persons | 32 | - | - | - | 1 | - | - | 1 | - | - |
| Newspaper coverage | 28 | - | - | - | - | - | - | - | - | - |
| Radio talks | | | | | | | | | | |
| TV talks | 14 | - | - | - | - | - | - | - | | |
| Popular articles | 10 | | | | | | | | | |
| Extension Literature | 4 | | | | | | | | | |
| Advisory Services | 220 | 350 | 150 | 500 | 26 | 20 | 46 | 376 | 170 | 546 |
| Scientific visit to farmers field | 349 | 260 | 60 | 320 | 19 | 20 | 39 | 279 | 70 | 349 |
| Farmers visit to KVK | 297 | 120 | 30 | 150 | 37 | 10 | 47 | 257 | 40 | 297 |
| Diagnostic visits | 153 | 110 | 10 | 120 | 21 | 12 | 33 | 131 | 22 | 153 |
| Exposure visits | | | | | | | | | | |
| Ex-trainees Sammelan | | | | | | | | | | |
| Soil health Camp | | | | | | | | | | |
| Animal Health Camp | 1 | 166 | - | 166 | 7 | - | 173 | 173 | - | 173 |
| Agri mobile clinic | | | | | | | | | | |
| Soil test campaigns | | | | | | | | | | |
| Farm Science Club Conveners meet | 4 | 80 | - | 80 | - | - | - | 80 | - | 80 |
| Self Help Group Conveners meetings | 2 | 1 | 50 | 50 | ı | - | 1 | 1 | 50 | 50 |
| Mahila Mandals Conveners meetings | 1 | - | 25 | 25 | 1 | - | 1 | 1 | 25 | 25 |
| Celebration of important days (specify) | 1 | 50 | - | 50 | - | - | - | 50 | - | 50 |
| One stop aqua shop(OSA) | 1 | 1 | - | 1 | | | | | | 1 |
| Total | | | | | | | | | | |

3.5 Production and supply of Technological products SEED MATERIALS

| Category | Сгор | Variety | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|------------------|------|---------|-----------------|-------------|----------------------------|
| CEREALS | | | | | |
| OILSEEDS | | | | | |
| PULSES | | | | | |
| VEGETABLES | | | | | |
| FLOWER CROPS | | | | | |
| OTHERS (Specify) | | | | | |
| | | | | | |

SUMMARY

| Sl. No. | Стор | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|---------|----------------------------|-----------------|-------------|-------------------------------|
| 1 | CEREALS | | | |
| 2 | OILSEEDS | | | |
| 3 | PULSES | | | |
| 4 | VEGETABLES | | | |
| 5 | FLOWER CROPS | | | |
| 6 | OTHERS(Paddy and Dhanicha) | | | |
| | TOTAL | | | |

PLANTING MATERIALS

| PLANTING MATERIAL SI. No. | | Variety | Quantity (No.) | Value (Rs.) | Provided to No. of Farmers |
|---------------------------|-------------------|-------------|-----------------|--------------|----------------------------|
| S1. INO. | Стор | variety | Quantity (Nos.) | v atue (Ks.) | Frovided to No. of Farmers |
| | D' 1 1 | 0 | 150 | 275 | |
| | Pineapple sucker | Queen | 150 | 375 | 5 |
| | Papaya seedlings | Red lady | 968 | 9680.00 | 9 |
| FRUITS | Lemon | | 1 | 11.00 | 1 |
| | Banana sucker | Dwart | 100 | 225.00 | 4 |
| | | cavendish | | | |
| | Jackfruit | - | 20 | 100.00 | 1 |
| | Black Pepper | Panniyur 1 | 121 | 605.00 | 4 |
| | | Panniyur 2 | | | |
| SPICES | | Kariamunda | | | |
| | Dalchini | | 25 | 125.00 | 1 |
| VEGETA DI EG | | | | | |
| VEGETABLES | D (1) | DIZA (1 | 701 | 2505.00 | 4 |
| | Drumstick | PKM-1 | 501 | 2505.00 | 4 |
| | seedlings | *** 1 | 2 200 | 500.00 | |
| | Brinjal seedlings | Utkal | 2,300 | 690.00 | 6 |
| | | Anushree | | | |
| | Tomato seedlings | Aravinda | 10,500 | 3150.00 | 8 |
| FOREST SPECIES | | | | | |
| | Teak | - | 1400 | 7000.00 | 5 |
| | Acacia mengium | - | 420 | 2100.00 | 2 |
| | A.ariculoformis | - | 240 | 1200.00 | 1 |
| ORNAMENTAL CROPS | | | | | |
| | Hybrid Balsam | Balsam tum | 1000 | 300.00 | 1 |
| | | thump mix | | | |
| | Rose | • | 160 | 1920.00 | 5 |
| PLANTATION CROPS | I. | | | | |
| | - | - | - | - | - |
| Others (specify) | I. | ı | 1 | l | |
| \ 1 | Yam | Hatikhojia | 1.5q | 2250.00 | 1 |
| | Elephant foot yam | Gajendra | 50kg | 750.00 | 1 |
| | Cassava | Sriganga | 100 | 250.00 | 1 |
| | Mushroom | Paddy straw | 10.5kg | 525.00 | 3 |
| | WIUSIIIOOIII | mushroom | 10.3Kg | 323.00 | J |
| CYTH CO E A DAY | 1 | musimoom | | | |

SUMMARY

| Sl. No. | Стор | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|---------|------------------|-----------------|-------------|-------------------------------|
| 1 | FRUITS | 1239 | 10,391 | 20 |
| 2 | VEGETABLES | 13,301 | 6,345 | 18 |
| 3 | SPICES | 146 | 730 | 5 |
| 4 | FOREST SPECIES | 2790 | 10,300 | 42 + community plantation |
| 5 | ORNAMENTAL CROPS | 260 | 2,220 | 8 |
| 6 | PLANTATION CROPS | | | |
| 7 | OTHERS | | 3,775 | |
| | TOTAL | 17736 | 33,761 | 59 |

| | BIOPRODUCTS | | | | | | | | | |
|----------------|--------------|-----------------|----------------------|---------|-------------|--------------------|--|--|--|--|
| Sl. No. | Product Name | Species | Quantity Value (Rs.) | | Value (Rs.) | Provided to No. of | | | | |
| | | | No | (kg) | | Farmers | | | | |
| BIOAGENTS | Earthworm | Eoesina foetida | 2000 | | 2000.00 | 1 | | | | |
| BIOFERTILIZERS | Vermicompost | - | - | 229.6kg | 1722.00 | 7 | | | | |
| BIO PESTICIDES | | | | | | | | | | |

SUMMARY

| CL N- | Dura danak Nama | Su antar | Qua | ntity | Value (Da) | Provided to No. |
|---------|-----------------|-----------------|--------|---------|-------------|-----------------|
| Sl. No. | Product Name | Species | No | (kg) | Value (Rs.) | of Farmers |
| 1 | BIOAGENTS | Eoesina foetida | 2000 | | 2000.00 | 1 |
| 2 | BIO FERTILIZERS | vermicompost | | 229.6kg | 1722.00 | 7 |
| 3 | BIO PESTICIDE | | | | | |
| | TOTAL | | 200.00 | 229.6kg | 3722.00 | 8 |

LIVESTOCK

| Sl. No. | Type | Breed | Quantity | | Value (Rs.) | Provided to No. of Farmers |
|------------------|-----------------------------|-----------|----------|-----|-------------|----------------------------|
| | | | (Nos | Kgs | | |
| Cattle | | | | | | |
| Sheep and Goat | | | | | | |
| Poultry | Backyard dual purpose | Vanaraja | 879 | | 26370.00 | 25 |
| Fisheries | | Gold fish | 20 | | 100.00 | 1 |
| Others (Specify) | | | | | | |

SUMMARY

| | | Type Breed Quantity Nos Kgs Value (Rs.) | Quantity | | | |
|---------|-----------------|---|-------------|----------------------------|----------|----|
| Sl. No. | Туре | | Value (Rs.) | Provided to No. of Farmers | | |
| 1 | CATTLE | | | | | |
| 2 | SHEEP & GOAT | | | | | |
| 3 | POULTRY | Vanaraja | 879 | | 26370.00 | 25 |
| 4 | FISHERIES | Gold fish | 20 | | 100.00 | 1 |
| 5 | OTHERS | | | | | |
| | TOTAL | | 899 | | 26470.00 | 26 |

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

(A) KVK News Letter (Date of start, Periodicity, number of copies distributed etc.) (B) Literature developed/published

| Item | Title | Authors name | Number |
|-----------------|---------------------------------------|----------------------------|--------|
| Research papers | 1. Stability of spilanthol in flowers | S. Nayak | 1 |
| | of spilanthes acmella in different | | |
| | storage condition. | | |
| | 2. Sustainable aquaculture for | A. K. Swain, G. Das, P. J. | 1 |
| | farming system research. | Mishra | |
| | 3. Utilisation of sugarcane baggage | G. Subudhi, P. K. Prusty, | 1 |
| | as an alternate substrate for | P. J. Mishra | |
| | economic mushroom production in | | |

| | Nayagarh district. 4. Vegetable and human health. 5. Concept paper on crop substitution: Growing of arrowroot in elephant damage prone up and medium land rice area of Nayagarh district. | G. Das & P. J. Mishra G. Das , P. J. Mishra & A. K. Swain | 1 |
|----------------------|---|---|-----|
| News letters | | | - |
| Technical | Byabasayika bhitire chatu chasa. | G Subudhi & P.J.Mishra | 500 |
| bulletins(Booklet) | Labhajanaka tissue culture kadali | G Das & P. J. Mishra. | 500 |
| | chasa. Madhura jala chingudi chasa. | A.K.Swain & P.J. Mishra | 500 |
| | Byabasayika Mahumachi palana. | P.K.Prusti & P.J.Mishra | 500 |
| Extension literature | Akhu phasalare jala parichalana. | P.J.Mishra , P.K. Banarjee | 500 |
| | Jia khata prastuti pranali. | & R.K. Bhol P.K.Prusti , G Das & P.J Mishra | 500 |
| | Labhajanaka Baunsa chasa. | S.Nayak, B Parmanik & P.J | 500 |
| | Swayam sahayaka gosthi parichalana. | Mishra P.K.Banarjee, G Subudhi & P.J.Mishra | 500 |

(C) Details of Electronic Media Produced

| S. No. | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number |
|--------|---|---|--------|
| | Documentation of E TVand doordarshan coverage of KVK activities | 1. Scientific production of mushroom | 1 |
| | Te vie activities | 2. T. C Banana and Hybrid papaya cultivation | 1 |
| | | 3. Integrated management for paddy stem borer | 1 |
| | | 4. Scientific production of Yam and Elepahant foot yam. | 1 |
| | | 5. Backyard poultry "Banaraja" farming. | 1 |
| | | 6. Rearing technique of khaki campbell ducks | 1 |
| | | 7. Technique of Ornamental live bearer fish production. | 1 |
| | | 8. Integrated disease management in groundnut. | 1 |
| | | 9. Growing of Acacia mangium in field bunds. | 1 |
| | | 10. Raising of Bamboo through culm cutting method | 1 |
| | | 11. Fish Hatchery management technology | 1 |
| | | 12. Management of sugarcane crop in rainy season | 1 |

| | 13. Micro nutrient management | 1 |
|--|-------------------------------|---|
| | in maize | |
| | 14. Biological control of | 1 |
| | parthenium grasss | |
| | | |
| | | |

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

<u>Tissue cultured banana and hybrid papaya cultivation</u>

- **1. Name of the enterprise/practice/technology:** Cultivation of tissue cultured banana & hybrid papaya.
- **2. Name & address of the farmer:** Sri Bijaya Kishore Nayak; Village Kantabania; Block Nayagarh; P.O.- Balugaon; District Nayagarh.
- 3. Initial status: The district of Nayagarh is situated in an area of 3, 94,110 hectares of land, of which major portion is covered with hilly terrains, dense forests and high lands. About 53,192 ha. of high lands (40% of total cultivated area) are covered with different field crops and vegetables in kharif season. Mostly traditional banana and papaya varieties are cultivated in high lands to a limited extent by farmers of the district. Tall type plantain varieties Bantala & Mendhi bantala; banana varieties Champa, Chinichampa, Kathia & Patakapura are generally cultivated by the farmers. Similarly local tall type papaya varieties are grown with improper management practice.

Kantabania, is a village situated at a distance of 8 kms. from the district head quarters. Two hundred farm families in the village, mostly small and marginal do cultivate sugarcane, paddy, groundnut, blackgram and vegetables in kharif season and undertake diary, goatery and pisciculture in small scale. Even though, good fertile high lands enriched with forest litter are available along with partial irrigation from the nearby *Panipoila* dam, none of the farmers cultivate banana and papaya. Though, there is an internal as well as external demand for banana and papaya, extensive commercial cultivation has never been followed. Low yield from local varieties, frequent disease & insect attack, wind and lodging problems are attributed to be the major reasons for non-adoption of these profitable ventures.

A young farmer of the village Sri Bijaya Kishore Nayak aged about 20 years, after leaving his studies at class Xth, helped his father in maintaining 4 nos. of buffaloes and cultivating paddy and fodder grass in 2 acres of irrigated high land round the year. From this business, his family could earn around thirty to thirty-five thousand rupees per annum.

- 4. KVK intervention (mandatory activities OFT, FLD, training etc. undertaken): Keeping in view the possibility of commercial banana and papaya cultivation in the well drained, fertile and irrigated high lands available in this particular village, it was decided to promote tissue cultured banana and hybrid papaya cultivation in 2006 kharif season. Accordingly, training programmes on 'Scientific method of tissue cultured banana cultivation' and 'Hybrid papaya cultivation' were organized in the village during March to May 2006. Exposure visit of the farmers to the KVK demonstration farm as well as front line demonstrations were also conducted.
- **5. Innovative extension approach:** After being trained and visited the demonstration units, Sri Nayak was interested to cultivate tissue cultured banana and hybrid papaya in his 2 acres of high land and contacted Krishi Vigyan Kendra for necessary technical guidance. Feasibility survey of his land was done; necessary technical literature provided and linkage was facilitated with the Regional Plant Resources Centre, Bhubaneswar for getting quality planting materials. A lay out plan was also prepared for planting banana and papaya.
- 6. Details of the technology:
 - a. Initial land preparation: Ploughing, removal of weeds, laddering and leveling of the field.
 - b. Lay out & digging of Pit:

- i) For Tissue Cultured banana =Pits of size 2ft. X 2ft.X 2ft. at a distance of 1.5m. dug out with field channel of
 - 0.5m. wide along the slope.
- **ii)** For hybrid papaya = Papaya was planted as a filler crop in between two plants of banana. Pits of size 50cm.

X 50cm. X 50cm. were dug.

- **c. Manure & Fertilizer Application:** Basal applications as well as top dressing of NPK fertilizers were done as per following schedule. Rings were done at 25-30cm. radius from the plant and fertilizers top dressed at a depth of 10-15cm. for both banana and papaya.
- i) For Tissue Cultured banana = 10 kg. FYM, 250g. neem oil cake, 250g. sterameal and 625g. SSP per pit was

mixed with the top soil and filled. Planting was done after 5-6 days at a depth of 20cm. After 2 month of planting, 150g of urea and 250g. of MOP was top dressed per plant. Then, after 4 months of planting only 250g. urea per plant was applied. The last dose of 250g. each of urea and MOP was applied after 6 months of planting.

ii) For hybrid papaya = Two to three baskets of FYM, 500g. of neem oil cake, 3.125kg. SSP, 140g.MOP and 100g. urea per pit was mixed with the top soil and filled. Planting was done after 5-6 days at a depth of 20cm.

After every 2 month's interval, each plant was top dressed with 140g. MOP and 100g. urea.

- **d. Procurement of planting material:** Tissue cultured banana plants variety *Dwarf Cavendish* and *Robusta* as well as gynodioecious hybrid papaya plants variety *Red Lady* were procured from the Regional Plant Resources Centre, Bhubaneswar and the Central Horticultural Experimentation Station, Bhubaneswar respectively. The planting was done during first week of June 2006.
- **e.** Intercultural Operations: Regular hoeing, weeding and earthing up operations were undertaken at 2 month's interval. Need based irrigation and water management was also done. The unwanted early suckers of banana were removed.
- **g. Disease Prophylaxis:** Prophylactic measures against wilting, leaf spot & bunchy-top diseases of banana as well as ring-spot, black spot, leaf curl, wilting and mosaic diseases of papaya were done by regular spraying and drenching of Bavistin @ 2g. per liter of water at 2 month's interval starting from 5th month of the crop. Similarly, need based spraying of monocrotophos @ 1.6ml. per liter of water was done 2 times at 15 days interval from starting of the infestation of thrips, jassids, aphids and white fly. Drenching of furadon @ 40g./plant in banana was done against stem borer attack.
- 7. Adoption of the technology & benefit to the farmer: From 2 ac. of banana and papaya cultivation following above scientific technology, Sri Nayak could earn Rs.50,000/- after 11th month of planting of banana and would expect to earn more from papaya and rest of banana. He is taking all care of the suckers (one each of the mother plant) for a second crop of banana and sold many to the local farmers for cultivation. He has expertise himself in this venture and is regarded as an advanced cultivator of the locality. The district horticulturist and the district agril.officer as well as many farmers of nearby villages have already visited his farm which has become a good demonstration site. Sri Nayak has developed his land in to a profitable enterprise. He was awarded in the O.U.A.T. Foundation Day Celebration 2007 for this success.
- 9. Farmer's reaction & feed back: The farmers of the village were surprised to see the extraordinary success in tissue cultured banana and hybrid papaya cultivation. But the local preference of yellow skin banana like Champa, Chinichampa & Patakapura especially for the purpose of worship reduced the price of tissue cultured banana. But the local people highly appreciated the taste and quality of Robusta and Dwarf Cavendish varieties. Marketing of so many bunch of banana matured at the same time was difficult for him. Constant watch

and ward of the crop in open field, without having fenced around was also another problem said by him. But his family was satisfied with the technology. He has constructed a shade near his farm and started fencing on a phased manner.

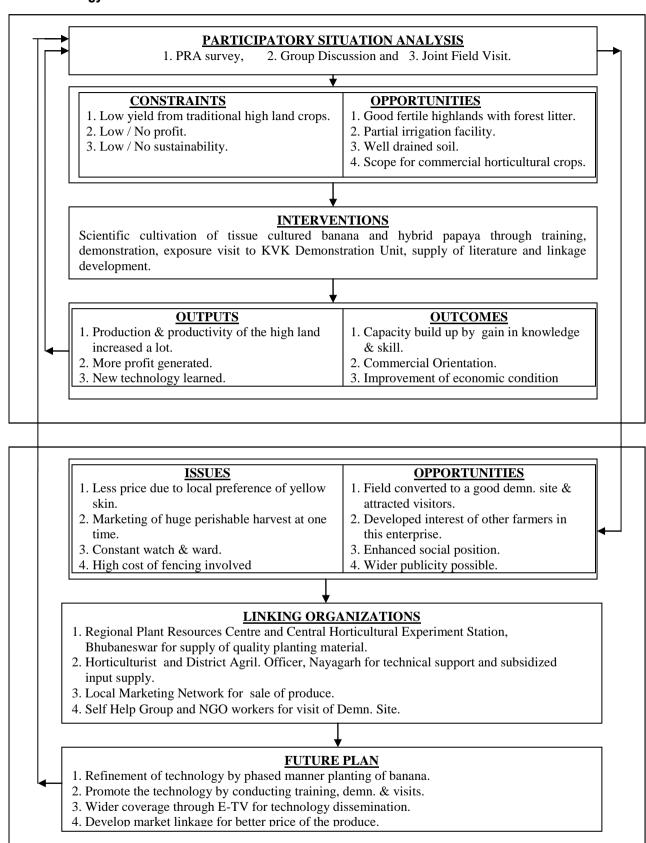
- 10. Extent of Diffusion effect of the newly adopted technology: Being inspired by the success of this technology, 3 young farmers in the village decided to start such commercial cultivation of banana & papaya during the next season. Now, Sri Nayak has not only become a successful farmer, but is acting as a farmer promoter in disseminating tissue cultured banana and hybrid papaya cultivation in the locality. His farm has become a real demonstration site not only for the farmers but also for the Self Help Groups and NGO workers. Thus, Sri Nayak has kindled the interest of many individuals and organizations of the locality to take up this enterprise as an attractive alternative to traditional farming.
- 11. Follow up action by KVK: KVK, Nayagarh has documented this successful intervention and developed plan to promote this technology. Trainings and demonstrations are to be conducted for orienting other farmers on this technology. KVK has also contacted E-TV for coverage of the technology for wider dissemination. Linkage with Wholesalers at Bhubaneswaar and Cuttack cities will be developed to avoid marketing constraint of banana and to ensure better price. Refinement of the T.C.banana cultivation technology by planting in phased manner through On Farm Testing will be tried to avoid huge production at a time.

12. Action Photograph:



Sri Bijay Kishore Nayak in his Tissue cultured banana and hybrid papaya field.

8. Model of technology dissemination:



Fresh water prawn culture

- 1. Name of the enterprise/practice/technology: Cultivation of fresh water prawn "Scampi".
 - **2. Name & address of the farmer:** Sri Kubera Jena; Village Kantabania; Block Nayagarh; P.O.- Balugaon; District Nayagarh.
- 3. Initial status: Good number of revenue/Gram Panchayat ponds covering 1626.33 ha. of water bodies are present in Nayagarh district. Similarly 1308.82 ha. of Non Govt./Private ponds are also available besides small & medium reservoirs, water harvesting structures, rivers and canal. Due to these water bodies, fresh water pisciculture is an important enterprise of the farmers. The annual fish production of the district is around 64,000 metric tones. Mostly, traditional pisciculture techniques with one year culture period are practiced by release of fry or fingerlings with inappropriate stocking density, without disease management and highly irregular manuring practice. Because of these, fish productivity of the district is very low.

Kantabania, is a village situated at a distance of 8 kms. from the district head quarters. Two hundred farm families in the village, mostly small and marginal do cultivate sugarcane, paddy, groundnut, black gram and vegetables in kharif season and undertake diary, goatery and pisciculture in small scale. Even though, 5 ponds of 3.2 ha. of total area are present in the village, intensive pisciculture is undertaken only in 2 ponds. Partial adoption of scientific management practices attributed to poor growth rate of fishes resulting low return from pisciculture. Complete utilization of the available water bodies could not be made for maximizing profit.

A 30 year old farmer of the village Sri Kubera Jena, after leaving his studies at class XIIth, has involved himself in cultivating sugarcane, paddy, groundnut and seasonal vegetables round the year in 3.5 acres of paternal field. He is also having 0.5 ac. of pond in which he practices composite pisciculture. Being an advanced farmer, he takes leadership role in the village in all sorts of activities. From this business, his family could earn around forty-five to fifty thousand rupees per annum.

- 4. KVK intervention (mandatory activities OFT, FLD, training etc. undertaken): Keeping in view the possibility of getting more profit from the ponds in this particular village, it was decided to promote fresh water prawn "Scampi" culture in 2006 kharif season. Accordingly, training programme on "Scientific method of fresh water prawn 'Scampi' culture" was organized in the village during May 2006. A frontline demonstration was also conducted.
- 5. Innovative extension approach: After being trained and visited the demonstration units, Sri Jena was interested for fresh water prawn culture in his 0.5 ac. of pond and contacted Krishi Vigyan Kendra for necessary technical guidance. His pond was investigated; relevant literature provided, technical guidance given and linkage was facilitated with Central Institute for Fresh water Aquaculture (CIFA), Bhubaneswar to get quality post larvae (PL) of Scampi. A plan was also prepared for renovation of the pond, water management, manuring & fertilizer application as well as feeding of culture.
- 6. Details of the technology:
 - a. Initial pond preparation: Destruction of trash fishes by mahua cake application @ 10 kg / ac.and application of
 - Calcium Carbonate @ 100 kg. /ac. followed by removal of weeds.
 - **b. Manure & Fertilizer Application:** N: P: K @ 80:60:240 kg. /ac. was applied through equal monthly doses Supplemented by *Pond Culture* @ 2kg/month.
 - **c. Stocking of Post Larvae (PL):** In one corner of the pond, with the help of net & bamboo splits a nursery was developed for stocking 10,000 PL of *Scampi* up to 60 days till attainment of juvenile stage. Regular feeding, monitoring of growth & development was done & finally they were released in to the main culture pond.
 - **d. Supplementary Feeding:** The daily feeding rate depends on the percentage of body weight of the juveniles. For
 - 5-15g. of wet body weight, 7% feed is required daily. Similarly for 15-25g. and >25g wet body weights, 5% and

3% of feed is given respectively. The feed composition consists of a mixture of oil cake & rice bran at 1:2 ratios

with 0.2%addition of vitamins and mineral mix.

- **e. Provision of hide outs:** Sufficient shelters (hide outs) are necessary in the pond to facilitate moulting of juveniles. Old tyres, broken earthen pots, pieces of pipes are evenly kept in side the pond for the purpose.
- f. Disease Prophylaxis: Prophylactic measures against black spot and white tail diseases are taken. Monthly liming @ 20kg / ac. 7 days before manuring and application of Cifax @ 400 ml. / ac. in Nov. & Feb. has been done
- 7. Adoption of the technology & benefit to the farmer: From 0.5 ac. of fresh water prawn culture, after 8 months of management, Sri Jena could harvest 3.0qtls. of prawn of average 40g. body weight. By selling the produce to a wholesale dealer @ Rs.135/- per kg., he earned Rs.40, 500/-. After deducting all expenses, he could earn a net profit of Rs.30,000/-. Thus, after KVK intervention, he could learn the scientific practices of pond preparation, liming, fertilizer, oil cake, raw cow dung and micro nutrient application in fresh water prawn culture. This was done in the locality for the first time and as such generated lots of enthusiasm among the farmers of near by villages.
- 9. Farmer's reaction & feed back: The farmers of the village were surprised to see the success in fresh water prawn culture. Due to more preference of prawn by the local people, three times more price of prawns over fishes and more profit, many farmers have developed interest for fresh water prawn culture. Due to high summer temperature in the month of April, there was shortage of oxygen in the pond for which suddenly, high mortality was observed and the farmer had no way than to harvest the entire stock and sold at a lower price. Had there been no such occasion, the farmer had obtained much more price by harvesting it in phases.
- 10. Extent of Diffusion effect of the newly adopted technology: Being motivated by the success of fresh water prawn culture, four young farmers of the village decided to start the enterprise in next season. Now, Sri Jena has not only become a successful farmer, but is acting as a farmer promoter in disseminating the technology in the locality.
- 11. Follow up action by KVK: KVK, Nayagarh has documented this successful intervention and developed plan to promote this technology. Trainings and demonstrations are to be conducted for orienting other farmers on this technology. KVK has also contacted E-TV for coverage of the technology for wider dissemination. Linkage with Wholesalers at Bhubaneswaar and Cuttack cities will be developed to get better price. Refinement of the technology for maintenance of optimum oxygen concentration during hot summer days through On Farm Testing will be tried to avoid sudden mortality of prawns.

12. Action Photographs:

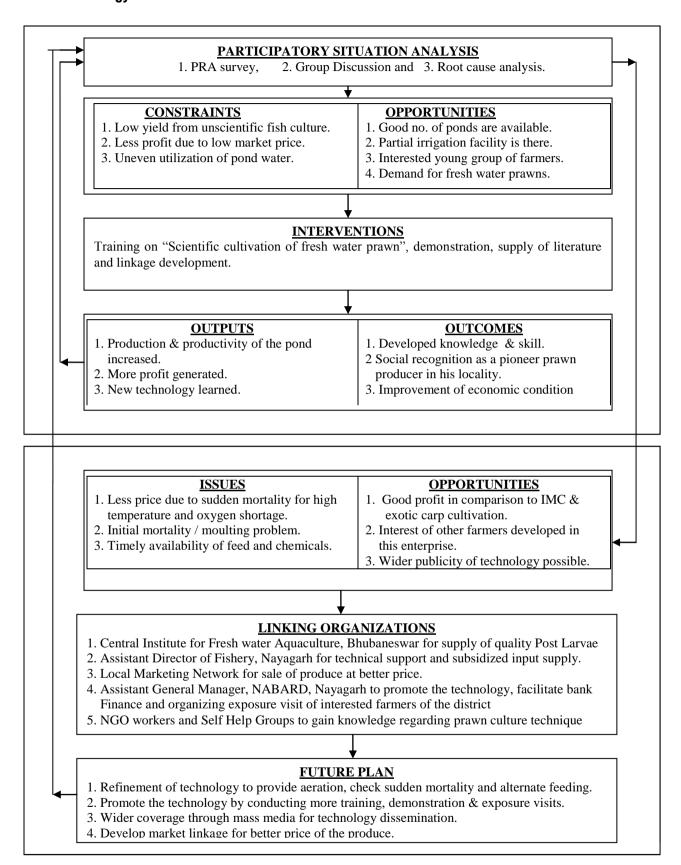


SMS (Fishery Sc.) & Farmers showing "Scampi"



A bumper harvest of fresh water prawn

8. Model of technology dissemination:



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

- i) Use of net in one corner of pond to act as nursery unit upto juvenile stages for freshwater prawn culture
- ii) Use of flower pot as fertilization substrate and base for groth of hydrilla plant in ornamental fish tank.
- iii.) Stocking of grass carp in prawn culture for pond fertilization.
- iv) Innovative carrying box for live fish transport.

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. No. | Crop / Enterprise | ITK Practiced | Purpose of ITK |
|--------|-------------------|-----------------------------|-----------------------|
| 1 | Ginger | Spraying of goat urine | Control rhizome rot |
| 2 | Brinjal | Root pruning | Control little leaf |
| 3 | Brinjal | Wood Ash Dusting | Control aphids |
| 4 | Paddy | Sparying with cowdung water | Control initial blast |

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

- Identification of courses for farmers/farm women: Group discussion, diagnostic survey, secondary source
- Rural Youth: PRA survey, Group discussion, farm and home visit, suggestions of line department officials
- Inservice personnel: suggestions of line department officials and NGO personnel, Group discussion, secondary sources

3.11 Field activities

i. Number of villages adopted: 6

ii. No. of farm families selected: 60

iii. No. of survey/PRA conducted: 3

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : laboratory not yet established in the KVK.

4.0 IMPACT

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

| Name of specific | No. of | % of adoption | Change in income (Rs.) | |
|-----------------------------|--------------|---------------|------------------------|------------------|
| technology/skill | participants | | Before (Rs./Unit) | After (Rs./Unit) |
| transferred | | | | |
| Freshwater prawn culture | 20 | 50 | 0 | 30,000 |
| Ornamental fish culture | 42 | 60 | 0 | 5000 |
| Back yard poultry(vanaraja) | 20 | 45 | 11000 | 18500 |
| Tissue cultured banana | 30 | 80 | 10000 | 17500 |
| plantation | | | | |

4.2. Cases of large scale adoption

Freshwater prawn culture area after KVK's intervention has been increased from 0Ha to 25Ha within a span of 3 years

Ornamental fish culture very popularly adopted in rural youth sector for that one aqua shop for first time in the district developed

Tissue cultures banana plantation has become popular in the area

Mushroom cultivation has become popular with SHGs in the district.

Biological control of sugarcane borers.

Control of DBM through IPM.

(Please furnish detailed information for each case)

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

5.0 LINKAGES

5.1 Functional linkage with different organizations

| Name of organization | Nature of linkage |
|--|---|
| 1. District Agril. Officer, Nayagarh. | Training, conducting FLD and OFT. |
| 2. Horticulturist, Nayagarh | Training, conducting FLD and OFT. |
| 3.FASCIMILE, Orissa, NGO, Nayagarh | Contact SHGs for training & demonstration |
| 4. Collecter & PD, DRDA, Nayagarh. | Campus development & drinking water provision |
| 5.Zilla Parisad Office, Nayagarh | Participation in Block Development Programmes. |
| 6. NABARD Office, Nayagarh. | SHG training, financial assistance to KVK trainees. |
| 7.Lead Bank Officer, Nayagarh | Financial assistance to KVK trained SHGs & Youths. |
| 8.FFDA, Nayagarah | Supply of Fish seed & training support |
| 9.CDVO, Nayagarah | Training and consultancy services for poultry and |
| | duckery |
| 10.DFO, Nayagarh | Training and consultancy. |
| 11. ATMA, Nayagarh | SREP, training. |
| 12. ICAR organizations (CIFA, CTCRI, CHES, | Supply of inputs and technical know how. |
| CARI, NRCWA. | |
| 13. MPEDA, BBSR | Awareness camp. |
| 14. NISWARTHA, SHRAVANI, CYDA (NGOs) | Training and consultancy |
| 15. Rotary club | Seminar |
| 16. NSCL | Technical guidance |

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 | Funding agency | Amount (Rs.) |
|------------------------|----------------|------------------|----------------|
| Traine of the selfence | initiation | I dilding agency | Timount (1651) |

5.3 Details of linkage with ATMA : ATMA has been registered during September 2007

a) Is ATMA implemented in your district: Yes

| S. No. | Programme | Nature of linkage | Remarks |
|-----------|-----------|--|---------|
| 1. | Nil | Programme coordinator as governing body member | - |
| 2. | | SMS as Deputy Project Director, ATMA. | - |
| 3. | | SMS as SREP member | - |

5.4 Give details of programmes implemented under National Horticultural Mission

| S. No. | Programme | Nature of linkage | Constraints if any |
|--------|----------------------------|---------------------------------|--------------------|
| | The National Horticultural | | |
| | Mission Programme is | KVK is a member in the District | |
| 1. | | Co-ordination committee for | - |
| | Horticulturist in entire | technical support. | |
| | district. | | |

5.5 Nature of linkage with National Fisheries Development Board

| S. No. | Programme | Nature of linkage | Remarks |
|--------|--------------------|-------------------|-----------------------------|
| 1. | Training programme | Financial support | Proposal has been submitted |
| 2. | Demonstration unit | -do- | -do- |

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

| Sl. | | | | Detai | ls of production | | Amou | | |
|-----|--------------------------|---------------|-------------|---|------------------|-------------|----------------|-----------------|---------|
| No. | Demo Unit | Year of estt. | Area | Variety | Produce | Qty. | Cost of inputs | Gross income | Remarks |
| 1. | Ornamental Fish | 2006 | 4tanks | Live bearers | 20 | 20 | 340 | 100 | - |
| | Hatchery. | | | | | | | | |
| 2. | Honey beehives. | 2006 | 10 colonies | A. cerana indica | - | - | - | - | - |
| 3. | Vermicompost unit | 2006 | 4pits | E. foetida | - | 229.6 kg | 500 | 1722 | - |
| 4. | Azolla tank | 2006 | 6 nos. | A. caroliniana | - | - | - | - | - |
| 5. | Nusery for Forest specis | 2007 | 0.04ha | A.mangium A.ariculofer mis Teak | - | 2790 nos | 6,0 00/- | 10,3 | - |
| 6. | Green house renovated | 2006 | 1 | Seedlings, saplings of Mango, papaya, blackpepper etc. are | - | - | - | - | - |
| | | | | raised. | | | | | |

6.2 Performance of instructional farm (Crops) including seed production

| SI. No | Сгор | Area Cove Red (ha) | Variety | Date of sowing | Date of harvesting | Total production (please specify the unit of yield)/Nos | Cost of inputs (Rs) | Gross income (Rs) | Remarks |
|-----------|-----------|-----------------------------|--|--------------------------|---------------------------|--|---------------------|-------------------------|---------|
| 1. | Drumstick | 0.03 | PKM-1 | 9.7.06 | 18.11.08 | 100 | 200/- | 50000 | - |
| 2. | Mushroom | - | Paddy Straw & Oyster | 25.7.07 To 8.12.07 | 15.8.07 To 19.12.07 | 10bed/bag | 150/- | 40000 | - |
| 3. | Banana | 0.06 | Dwarf cavendish | 13.8.06 | 12.5.07- 23.7.07 | 100 dozen | 8/- | 80000 | - |
| 4. | Nursery | 0.04 | A.mangium A.ariculifor mis Teak | 17.5.07 | 28.7.07 to 10.8.07 | 2790 | 6,000/- | 10,300/- | - |

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

| Sl. | Name of the | _ | Amou | | | |
|-----|--------------|---------|----------------|--------------|---------|--|
| No. | Product | Qty | Cost of inputs | Gross income | Remarks | |
| | Vermicompost | 229.6kg | 600 | 1722 | | |
| | Earthworm | 2000 | 500 | 2000 | | |

6.4 Performance of instructional farm (livestock and fisheries production)

| Sl. | Name | Details of | of production | production | | Amount (Rs.) | | |
|-----|------------------------------------|------------|-----------------|------------|----------------|--------------|---------|--|
| No | of the animal / bird / aquatics | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks | |
| 1 | backyard poultry | Banaraja | rearing | 879 | 15,000/- | 26,370/- | | |

6.5 Utilization of hostel facilities

Accommodation available (No. of beds): Hostel not constructed

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 | OUAT | |
| | | branch | |
| With KVK | State Bank of India | Nayagarh | 11383056681 |

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

| | Released by ICAR | | Expenditure | | Ungnent belonge og en 1st | |
|-----------------------------|------------------|----------------------|----------------|-----------------|---|--|
| Item | Kharif 2007 | Rabi 2007 -08(Rs) | Kharif 2007 | Rabi 2007-08 | Unspent balance as on 1st April 2008 | |
| Inputs | 12,250/- | 8,750/- | 12,250/- | 8,736/- | 14/- | |
| Extension activities | 1575/- | 1250/- | 1575/- | 1250/- | Nil | |
| TA/DA/POL etc. | 1750/- | 1075/- | 1640/- | 1075/- | 110/- | |
| TOTAL | 15,575/- | 11,075/- | 15,465/- | 11,061/- | 124/- | |

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

| | Released by ICAR | | Expenditure | | Unspent |
|----------------------|------------------|----------|-------------|---------|----------------------------|
| Item | Kharif | Rabi | Kharif | Rabi | balance as on |
| | 2007 | 2007 -08 | 2007 | 2007-08 | 1 st April 2008 |
| Inputs | - | 9190/- | - | 9100/- | 90/- |
| Extension activities | - | 1315/- | - | 1315/- | = |
| TA/DA/POL etc. | - | 1615/- | - | 1615/- | = |
| TOTAL | NIL | 12120/- | NIL | 12030/- | 90/- |

7.4 Utilization of funds under FLD on Cotton (Rs.) Not Applicable

| | Released by ICAR | | Expen | Unspent | |
|-----------------------------|------------------|----------|--------|---------|----------------------------|
| Item | Kharif | Rabi | Kharif | Rabi | balance as on |
| | 2007 | 2007 -08 | 2007 | 2007-08 | 1 st April 2008 |
| Inputs | | | | | |
| Extension activities | | | | | |
| TA/DA/POL etc. | | | | | |
| TOTAL | NIL | NIL | NIL | NIL | NIL |

7.5 Utilization of KVK funds during the year 2007 -08

| S. No. | Particulars | Sanctioned (Rs) | Released | Expenditure |
|-----------|--|-----------------|----------|-------------|
| A. Rec | curring Contingencies | | | |
| 1 | Pay & Allowances | 30,00,000 | - | - |
| 2 | Traveling allowances | 1,00,000 | 1,00,000 | 1,00,000 |
| 3 | Contingencies | 6,00,000 | 6,00,000 | 6,00,000 |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | | | 85,017 |
| В | POL, repair of vehicles, tractor and equipments | | | 102368 |
| С | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | | | 156640 |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | | 110733 |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | | | 90589 |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | | | 27638 |
| G | Training of extension functionaries | | | 14400 |
| H | Maintenance of buildings | | | |
| I | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| J | Library | | | |
| k | Audit and monitoring | | | 12615 |
| | TOTAL (A) | 37,00,000 | | 36,98,839 |
| B. Nor | 1-Recurring Contingencies | | | |
| 1 | Works | 23,95,000 | | 23,27,319 |
| 2 | Equipments including SWTL & Furniture | 95,000 | 95,000 | 84,389 |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | | | |
| 4 | Library (Purchase of assets like books & journals) | - | - | - |
| | TOTAL (B) | 24,90,000 | | 24,11,708 |
| C. RE | VOLVING FUND | - | | 48,227 |
| GRAN | ND TOTAL (A+B+C) | 61,90,000 | | 61,58,774 |

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

| Year | Opening balance as on 1st April | Income during the year | Expenditure during the year | Net balance in hand as on 1 st April of each year |
|--------------------------|---------------------------------|------------------------|--------------------------------|--|
| April 2004 to March 2005 | - | - | - | - |
| April 2005 to March 2006 | 1.0 | 0.17120 | 0.06901 | 1.10219 |
| April 2006 to March 2007 | 1.10219 | 0.21728 | 0.16500 | 1.15447 |
| April2007 to March2008 | 1.15447 | 0.63950 | 0.48227 | 1.31170 |

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

8.1 Constraints

- a. Administrative: Adequate land with irrigation needed for seed production programme. Sanction of addl. Post for soil testing and bio control lab e.g. Soil Chemist, Lab Assistant, Lab Attendant.
 - b. Technical: Lack of demonstration units in the campus, establishment of soil testing and bio control lab, Audio-visual like, TV and CD player could improve the efficiency of trainings.
 - c. Financial: Provision for Motor cycle, establishment of demonstration units, training hall, laboratory etc., needed for utilization of manpower and serving the farmer community in a better way.

(Signature of Programme Coordinator)