

ANNUAL PROGRESS REPORT

(April 2010-March 2011)



KVK, DHENKANAL



Orissa University of Agriculture & Technology
Bhubaneswar

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REPORTING PERIOD – April 2010 to March, 2011

Summary of achievements during the reporting period

| KVK Name | Activity | Target | | Achievement | | Total value of resource generated/Fund received from diff. sources (Rs.) |
|-----------|---|--------------------|-------------------------------|--------------------|-------------------------------|--|
| | | Number of activity | No. of farmers/ beneficiaries | Number of activity | No. of farmers/ beneficiaries | |
| Dhenkanal | OFTs | 18 | 105 | 18 | 105 | |
| Dhenkanal | FLDs – Oilseeds (activity in ha) | 2 | 28 | 2 | 28 | |
| Dhenkanal | FLDs – Pulses (activity in ha) | 1 | 14 | 1 | 14 | |
| Dhenkanal | FLDs – Cotton (activity in ha) | | | | | |
| Dhenkanal | FLDs – Other than Oilseed and pulse crops(activity in ha) | 23 | 147 | 23 | 147 | |
| Dhenkanal | FLDs – Other than Crops (activity in no. of Unit/Enterprise) | 3 | 30 | 30 | | |
| Dhenkanal | Training-Farmers and farm women | 62 | 1600 | 62 | 1600 | |
| Dhenkanal | Training-Rural youths | 18 | 270 | 18 | 270 | |
| Dhenkanal | Training- Extension functionaries | 14 | 210 | 14 | 210 | |
| Dhenkanal | Extension Activities | 329 | 2410 | 329 | 2410 | |
| Dhenkanal | Seed Production (Number of activity as seeds in quintal) | 1 | 128 q | 1 | 128 q | |
| Dhenkanal | Planting material ((Number of activity as quantity of planting material in quintal) | 5 | 9400 | 5 | 9400 | 45450 |
| Dhenkanal | Seedling Production (Number of activity as number of seedlings in numbers) | 4 | 10000 | 4 | 10000 | 16196 |
| Dhenkanal | Sapling Production (Number of activity as number of sapling in numbers) | - | - | - | - | - |
| Dhenkanal | Other Bio- products | 1 | 10 q | 1 | 10 q | 4375 |
| Dhenkanal | Live stock products | 1 | 200 birds | 1 | 200 birds | 8000 |
| Dhenkanal | SAC Meeting (Date & no. of core/official members | 1 | 50 nos. | 1 | 16.7.2010/50 nos. | |
| Dhenkanal | Newsletters (no.) | 1 | 500 | 1 | 500 | |
| Dhenkanal | Publication (Research papers, popular article) | 14 | - | - | - | |
| Dhenkanal | Convergence programmes / Sponsored programmes | - | - | - | - | - |
| Dhenkanal | KVK-ATMA Linkage programme (Number of activities) | 1 | 11 | 1 | 10 | 100000 |
| Dhenkanal | Outreach of KVK in the District (No. of blocks, no. of villages) | 8 | 205 | 8 | 205 | |
| Dhenkanal | Soil sample tested | - | - | 196 | 151 | 100 |
| Dhenkanal | Water sample tested | - | - | 09 | 09 | - |
| Dhenkanal | KMA (No. of messages & beneficiaries) | 15 | 65 | 15 | 65 | |

1. GENERAL INFORMATION

1.1. Staff Position (as on 31.03.2011)

| Name of KVK. | Sanctioned post | Name of the incumbent | Discipline | Highest degree | Subject of Specialization | Pay Scale (Rs.) | Present basic (Rs.) | Date of joining | Permanent /Temporary | Category (SC/ST/OBC/ Others) |
|--------------|-----------------------------|--------------------------|--------------|------------------|---------------------------|----------------------|---------------------|-----------------|----------------------|------------------------------|
| Dhenkanal | Programme Coordinator | Dr. Mrs Saswati Parichha | Home Science | Ph.D | Home Science | 37400-69000 | 49610+10000 (GP) | 08.12.09 | Temporary | Gen |
| Dhenkanal | Subject Matter Specialist1 | Sri T. L. Mohanty | Forestry | M.Sc. (Forestry) | Forestry | 15,600-39,100 | 19050/-+6000(GP) | 11.11.06 | Temporary | Gen |
| Dhenkanal | Subject Matter Specialist2 | Sri B.R. Pattnaik | Extension | M.Sc. (Ag.) | Extension | 15,600-39,100 | 19050/+6000 (GP) | 04.06.07 | Temporary | Gen |
| Dhenkanal | Subject Matter Specialist3 | Smt. S. Pal | Home Science | M.Phil | Home Science | 15,600-39,100 | 19050/+6000 (GP) | 15.11.07 | Temporary | Gen |
| Dhenkanal | Subject Matter Specialist4 | Dr. B. Kabat | Soil Science | Ph. D. | Soil Science | 15,600-39,100 | 19050/+6000 (GP) | 23.07.09 | Temporary | Gen |
| Dhenkanal | Subject Matter Specialist5 | Sri Sidhartha Kar | Horticulture | MSc (Ag) | Horticulture | 15,600-39,100 | 16250+6000 (GP) | 01.10.09 | Temporary | Gen |
| Dhenkanal | Subject Matter Specialist6 | Sri B.K. Routray | Entomology | M.Sc. (Ag.) | Entomology | 15,600-39,100 | 18320/-+6000(GP) | 04.01.10 | Temporary | Gen |
| Dhenkanal | Programme Assistant | Sri. Jashobanta Sahoo | fishery | BFSc. | Fishery | 9300-34,800 | 11460/-+4200(GP) | 04.10.09 | Temporary | OBC |
| Dhenkanal | Farm Manager | Vacant | | | | | | | Temporary | |
| Dhenkanal | Computer Programmer | Sri B. Pradhan | Computer | MCA | Computer | 9300-34,800 | 11460/-+4200(GP) | 23.12.09 | Temporary | OBC |
| Dhenkanal | Accountant / superintendent | Vacant | | | | | | | | |
| Dhenkanal | Stenographer | Sri G.R. Das | - | B.A. | - | 5,200-20,200 | 6190+2400/- | 08.01.07 | Temporary | Gen |
| Dhenkanal | Driver | Sri K.B. Mohanty | - | UP | - | 5,200-20,200 | 5870+1900/- | 24.07.07 | Temporary | Gen |
| Dhenkanal | Driver | Sri N.M. Sahoo | - | 10 th | - | 5,200-20,200 | 5870+1900/- | 25.07.07 | Temporary | Gen |
| Dhenkanal | Supporting staff | Sri Bhagir Dalai | - | UP | - | 2550-55-2660-60-3200 | 2605/- | 29.07.08 | Temporary | SC |
| Dhenkanal | Supporting staff | Smt. Ahalya Baral | - | UP | - | 2550-55-2660-60-3200 | 2605/- | 28.07.08 | Temporary | Gen |

1.2. DISTRICT PROFILE (detail of geographical area, cultivation, Land, resources, opportunities, irrigation, populations etc.)–

Details of geographical area in hectare/Land utilization pattern

| | |
|--------------------------------------|-----|
| Geographical Area(000'Ha) | 445 |
| Cultivable Area(000'Ha) | 186 |
| Cultivable Waste land(000'Ha) | 4 |
| Current fallow(000'Ha) | 31 |
| Other fallows(000;ha) | 20 |
| Forest(000'Ha) | 174 |
| Pasture(000'Ha) | 8 |
| Land(Non Agriculture use) (000'ha) | 42 |
| Land under misc. plantation(000'ha) | 6 |
| Barren & un culturable land (000'ha) | 5 |

Population of the District

| | |
|----------------------|---------|
| Population | 1066878 |
| Male | 544001 |
| Female | 522877 |
| General | 733097 |
| ST | 136501 |
| SC | 197280 |
| No. of Farm families | 108337 |
| Small farmer | 39823 |
| Marginal farmer | 50726 |
| Big farmer | 17788 |
| Agricultural labour | 122000 |

Area, Production & productivity of the major crops cultivated in the districts

| Name of the crop | Area in ha | Production in (MT) | Yield q/ha |
|------------------|------------|--------------------|------------|
| Paddy | 112749 | 2543585 | 20.72 |
| Sugarcane | 1189 | 814580 | 685.1 |
| Maize | 2827 | 17280 | 6.11 |
| Groundnut | 15161 | 186520 | 12.30 |
| Seasamum | 15953 | 32790 | 2.06 |
| Green gram | 23529 | 52190 | 2.22 |
| Black gram | 23707 | 59200 | 2.50 |
| Arhar | 4689 | 34280 | 7.31 |
| Vegetables | 25186 | 3065350 | 121.71 |

1.3. DETAILS OF ADOPTED VILLAGE during the reporting period (Approved by competent Authority in meetings/workshops)

| KVK Name | Village Name | Year of adoption | Block Name | Distance from KVK | Population | Number of farmers (having land in the village) |
|-----------|--------------|------------------|-----------------|-------------------|------------|--|
| Dhenkanal | Jamujhara | 2010 | Kamakshyanagar | 30km | | |
| Dhenkanal | Bangursingh | 2010 | Odapada | 30km | | |
| Dhenkanal | Kadalipala | 2009 | Kamakshyanagar | 40 km | 122 | 25 |
| Dhenkanal | Bangu | 2009 | Hindol | 80 km | 320 | 75 |
| Dhenkanal | Majhisahi | 2008 | Dhenkanal Sadar | 20 km | 185 | 29 |
| Dhenkanal | Deojhar | 2008 | Gondia | 35 km | 436 | 74 |
| Dhenkanal | Khalibandha | 2005 | Dhenkanal Sadar | 15 km | 313 | 73 |

1.4. THRUST AREAS identified by KVK (Approved by competent Authority in meetings/workshop)

| KVK Name | THRUST AREA |
|-----------|--|
| Dhenkanal | ➤ Cultivation of HYV paddy with improved agro techniques (INM, IWM, IPM) |
| Dhenkanal | ➤ Area expansion and seed production in groundnut |
| Dhenkanal | ➤ Seed replacement in green gram and black gram for higher yield |
| Dhenkanal | ➤ Improved cultivation techniques and area expansion of sugarcane |
| Dhenkanal | ➤ Improved cultivation techniques of vegetables, mango, cashew, spices and tuber crops |
| Dhenkanal | ➤ Composite fish culture, integrated fish farming and ornamental fish culture, polyculture of prawn, magur |
| Dhenkanal | ➤ Back yard poultry rearing, diary, and goatery |
| Dhenkanal | ➤ Mushroom cultivation |
| Dhenkanal | ➤ Bee keeping |
| Dhenkanal | ➤ Soil fertility, vermi-composting |
| Dhenkanal | ➤ Commercial plantation of economically important tree species. |
| Dhenkanal | ➤ Development of Agro-forestry systems |
| Dhenkanal | ➤ Scientific management of minor forest produces |

1.4. PROBLEM IDENTIFIED by KVK (Approved by competent Authority in meetings/workshop)

| KVK Name | Problem identified | Methods of problem identification |
|-----------|--|-----------------------------------|
| Dhenkanal | Poor crop yield due to local varieties, application, inadequate plant population | |
| Dhenkanal | Imbalance fertilizer management | |
| Dhenkanal | Yield loss due to insect pest and diseases | |
| Dhenkanal | Weed problem | |
| Dhenkanal | Shortage of quality seeds | |
| Dhenkanal | Low pod yield pulses | |
| Dhenkanal | Traditional varieties | |
| Dhenkanal | Traditional method of sugarcane cultivation | |
| Dhenkanal | Lack of proper management practices of winter vegetables | |
| Dhenkanal | Shortage of planting material | |
| Dhenkanal | Improper management of cashew orchards, un employment problem of rural youths | |

| | | |
|-----------|--|--|
| Dhenkanal | Un availability planting material and lack of knowledge about scientific method of cultivation. | |
| Dhenkanal | Lack of knowledge about scientific method of cultivation. | |
| Dhenkanal | Insect pest attack | |
| Dhenkanal | Low income due to traditional method of fish culture | |
| Dhenkanal | Aquatic Weed | |
| Dhenkanal | Lack of feeding | |
| Dhenkanal | Diseases | |
| Dhenkanal | Non availability of ornamental fishes | |
| Dhenkanal | Low milk yield of desi cows | |
| Dhenkanal | Low body weight of desi birds | |
| Dhenkanal | Under utilization of paddy straw | |
| Dhenkanal | Under utilization of oyster mushroom cultivation | |
| Dhenkanal | Improper utilization of family labour and home stead lands | |
| Dhenkanal | Problematic soil Low organic matter content in the soil. Little knowledge about fertilizer doses | |
| Dhenkanal | Shortage of quality timbers | |
| Dhenkanal | Unutilization of Waste land | |
| Dhenkanal | Shortage of quality timbers, unutilized farm bunds | |
| Dhenkanal | Lack of quality planting material of forest species | |

2. On Farm Testing

2.1 Information about OFT

| KVK name | Year/ season | Problem diagnose | Category of technology (Assessment/ Refinement) | Thematic Area | Crop/ enterprise | Farming Situations | Title of OFT | No. of trials | Results (with parameter) | | Net Returns (Rs./ha) | | Recommendations |
|-----------|-----------------|---|--|----------------------------------|---------------------|-----------------------|--|------------------|-----------------------------|--------------------|----------------------|------------|--|
| | | | | | | | | | Farmer practice T1 | Rec. Tech T2 | T1 | T2 | |
| Dhenkanal | Kharif, 2010 | Low yield of Swarna due to disease & pest problem | Assessment | Varietal evaluation | Paddy | Rainfed | Assessment of newly released paddy variety Ranidhan under Medium Land Condition | 05 | 33.2 | 41.5 | 17500 | 23900 | The var Ranidhan is suitable for medium land condition & is a substitute to swarna |
| Dhenkanal | Kharif, 2010 | New introduction | Assessment | Varietal evaluation | Onion | Rainfed | Assessment of Onion variety N- 53 | 05 | 205 | 242 | 94000 | 12200 0 | The var N-53 is suitable for Kharif season for off season income |
| Dhenkanal | Kharif, 2010 | New introduction | Assessment | Varietal evaluation | Bitter gourd | Rainfed | Assessment of Bitter gourd variety Pusa domousami | 05 | 65 | 125 | 38000 | 70000 | The variety is recommended for higher yield and market demand |
| Dhenkanal | Kharif, 2010 | Low paddy yield due to sheath rot disease | Assessment | IPM | Paddy | Rainfed | Assessment of chemical for Sheath rot control in paddy | 05 | 38.5 | 42.1 | 23000 | 24900 | Valiadamycin @ 500ml/ha may be applied to control sheath rot of paddy |
| Dhenkanal | Kharif, 2010 | Low yield and low oil content | Assessment | Integrated weed Management | Okra | Rainfed | Assessment of Basalin for controlling weed in okra | 5 | 174 | 205 | 64400 | 77500 | Basalin @ 500ml/ha may be applied for controlling weed in okra |
| Dhenkanal | Kharif, 2010 | Lack of planting material | Assessment | IFS | Bamboo | Rainfed | Assessment of Bambusa vulgaris raised through culm | 10 | 1.8 1.0 1.0 | 2.8 1.5 10.0 | 19500 | 30500 | The technology is recommended for production of sufficient |

| | | | | | | | | | | | | | |
|-----------|-----------------|---|------------|--------------------|-----------|-----------|--|----|--------------------------|---------------|--------|--------|--|
| | | | | | | | cutting | | | | | | no of planting material and have a faster growth rate |
| Dhenkanal | Kharif, 2010 | High drudgery due to manual weeding | Assessment | Drudgery reduction | Paddy | Rainfed | Assessment of mandva weeder for drudgery reduction of farm women in SRI method of rice cultivation | 05 | Heart Rate 110 Beats/Min | 120 Beats/Min | 19050 | 20400 | mandva weeder is successful for drudgery reduction of farm women in SRI method of rice cultivation |
| Dhenkanal | Rabi, 2010-2011 | High drudgery for making ridges and expensive | Assessment | Drudgery reduction | Vegetable | Irrigated | Assessment of hand ridger for drudgery reduction of farm women | 05 | Heart Rate 95 Beats/Min | 126 Beats/Min | 13500 | 19250 | hand ridger is successful for drudgery reduction of farm women |
| Dhenkanal | Rabi, 2010-2011 | Poor yield due to Aphid infestation | Assessment | IPM | Mustard | Irrigated | Assessment of Biological control of mustard aphid | 05 | 7.5 | 10.0 | 12500 | 17500 | Application of Nimacin @ 2.5 lit/ha is recommended |
| Dhenkanal | Rabi, 2010-2011 | Low yield and low quality | Assessment | ICM | Potato | Irrigated | Assessment of Borax in Potato | 05 | 220 | 275 | 65000 | 90000 | Application of Borax is recommended for better quality and higher yield of potato |
| Dhenkanal | Rabi, 2010-2011 | Wilting and low yield | Assessment | IPM | Cabbage | Irrigated | Assessment of IPM strategy for control of DBM in Cabbage | 05 | 300 | 400 | 105000 | 146000 | Application of pheromone trap and lure @ 10 traps/ha + Multineem @ 2.5 lit/ha+B thuringiensis @ 500g/ha is |

| | | | | | | | | | | | | | |
|-----------|-----------------|---|------------|-------------------------------|------------------|-----------|---|----|------------------------------|-------|-------|--------|---|
| | | | | | | | | | | | | | recommended |
| Dhenkanal | Rabi, 2010-2011 | Fish diseases in culturable ponds | Assessment | Disease management | Fish | - | Assessment of lime and turmeric for control of Fish diseases | 05 | 8.5 | 22.0 | 50500 | 126000 | of lime and turmeric @250kg/ha (10:1) controls Fish diseases |
| Dhenkanal | Rabi, 2010-2011 | Low yield | Assessment | Varietal evaluation | Onion | Irrigated | Assessment of Onion variety Agrifound light Red | 05 | 176 | 220 | 76000 | 102000 | The variety is recommended for higher yield and market demand for attractive color and pungency |
| Dhenkanal | Rabi, 2010-2011 | Low yield | Assessment | Varietal evaluation | Potato | Irrigated | Assessment of potato variety Khufri Surya | 05 | 225 | 260 | 67000 | 83000 | The variety is recommended for higher yield and longer storage quality |
| Dhenkanal | Rabi, 2010-2011 | High drudgery & low efficiency of farm women in sugarcane stripping | Assessment | Drudgery reduction | Sugarcane | Irrigated | Assessment of sugarcane stripper for drudgery reduction of farm women in sugarcane harvesting | 10 | Heart Rate: 120 Beats / Min: | 110 | 64650 | 64900 | sugarcane stripper is recommended for drudgery reduction of farm women in sugarcane harvesting |
| Dhenkanal | Rabi, 2010-2011 | No yield from kusum tree | Assessment | Small scale income generation | Kusmi brood lac | Rainfed | Lac cultivation on Kusum tree | 05 | Cont | | | | Lac cultivation is introduced in the district |
| Dhenkanal | Rabi, 2010-2011 | No yield from interspaces | Assessment | IFS | HYV Cowpea seeds | Rainfed | Teak+Cowpea based agrisilvicultural system | 10 | 48.2 | 51.45 | 23200 | 32900 | Farmers have accepted the technology of alley cropping at (6x3)mtr2 tree spacing |

2.2 Economic Performance

| KVK name | OFT Title | Parameters | | | Average Cost of cultivation (Rs/ha) | | | Average Gross Return (Rs/ha) | | | Average Net Return (Rs/ha) | | | Benefit-Cost Ratio (Gross Return / Gross Cost) | | |
|-----------|---|----------------------------|-------|-------|-------------------------------------|----------------------|--|------------------------------|----------------------|--|----------------------------|---------------------|--|--|----------------------|--|
| | | Name and unit of Parameter | De mo | Check | FP (T ₁) | RP (T ₂) | Refined Practice, if any (T ₃) | FP (T ₁) | RP (T ₂) | Refined Practice, if any (T ₃) | FP (T ₁) | RP(T ₂) | Refined Practice, if any (T ₃) | FP (T ₁) | RP (T ₂) | Refined Practice, if any (T ₃) |
| Dhenkanal | Assessment of newly released paddy variety Ranidhan under Medium Land Condition | 1000 grain wt g | 24.3 | 26.3 | 15700 | 17600 | - | 33200 | 41500 | - | 17500 | 23900 | - | 2.11 | 2.35 | - |
| Dhenkanal | Assessment of Onion variety N-53 | Bulb wt g | 85 | 60 | 109000 | 120000 | - | 205000 | 242000 | - | 94000 | 122000 | - | 1.88 | 2.02 | - |
| Dhenkanal | Assessment of Bitter gourd variety Pusa domousam i | Fruit wt g | 120 | 55 | 40000 | 55000 | - | 78000 | 125000 | - | 38000 | 70000 | - | 1.95 | 2.27 | - |
| Dhenkanal | Assessment of chemical for Sheath rot control in paddy | Disease incidence % | 5.1 | 16.2 | 15500 | 17200 | - | 38500 | 42100 | - | 23000 | 24900 | - | 1.48 | 2.45 | - |
| Dhenkanal | Assessment of Basalin for controlling weed in | Weed infestation % | 4.8 | 14.6 | 40000 | 45500 | - | 104400 | 123000 | - | 64400 | 77500 | - | 1.61 | 1.70 | -- |

| | | | | | | | | | | | | | | | | |
|-----------|--|---------------------------|-------------------|--------------------|--------|--------|---|--------|--------|---|--------|--------|---|------|------|---|
| | okra | | | | | | | | | | | | | | | |
| Dhenkanal | Assessment of Bambusa vulgaris raised through culm cutting | Mtr Cm No | 1.8 1.0 1.0 | 2.8 1.5 10.0 | 13000 | 20000 | | 32000 | 50000 | | 19000 | 30000 | - | 1.4 | 2.5 | - |
| Dhenkanal | Assessment of mandva weeder for drudgery reduction of farm women in SRI method of rice cultivation | Heart Rate: Beats /Min | 120 | 110 | 25,950 | 24,600 | - | 45,000 | 45,000 | - | 19050 | 20400 | - | 1.73 | 1.82 | - |
| Dhenkanal | Assessment of hand ridger for drudgery reduction of farm women | Heart Rate: Beats /Min | 95 | 126 | 8000 | 10000 | - | 21500 | 29250 | - | 13500 | 19250 | - | 2.68 | 2.93 | - |
| | | Cardiac Cost: Beats/m2 | 16 | 40 | | | | | | | | | | | | |
| Dhenkanal | Assessment of Biological control of mustard aphid | Aphid infestation % | 4.6 | 12.3 | 19500 | 22500 | - | 30000 | 40000 | - | 12500 | 17500 | - | 1.54 | 1.77 | - |
| Dhenkanal | Assessment of Borax in Potato | Tuber wt g | 140 | 100 | 45000 | 47500 | - | 110000 | 137500 | - | 65000 | 90000 | - | 2.44 | 2.89 | - |
| Dhenkanal | Assessment of IPM strategy for control of DBM in Cabbage | DBM infestation % | 3.5 | 17.2 | 45000 | 54000 | - | 150000 | 200000 | - | 105000 | 146000 | - | 3.33 | 3.70 | - |

| | | | | | | | | | | | | | | | | |
|-----------|---|---|----------------------|------|--------|--------|---|--------|--------|---|-------|--------|---|------|------|---|
| Dhenkanal | Assessment of lime and turmeric for control of Fish diseases | Av body wt g | 750 | 300 | 17500 | 40000 | - | 176000 | 68000 | - | 50500 | 126000 | - | 3.88 | 4.40 | - |
| Dhenkanal | Assessment of Onion variety Agrifound light Red | Bulb wt g | 85 | 60 | 100000 | 118000 | - | 176000 | 220000 | - | 76000 | 102000 | - | 1.76 | 1.86 | - |
| Dhenkanal | Assessment of potato variety Khufri Surya | Tuber wt g | 155 | 85 | 45500 | 54500 | - | 112500 | 137500 | - | 67000 | 83000 | - | 2.47 | 2.52 | - |
| Dhenkanal | Assessment of sugarcane stripper for drudgery reduction of farm women in sugarcane harvesting | Heart Rate: Beats/ Min | 120 | 110 | 70350 | 70100 | - | 135000 | 135000 | - | 64650 | 64900 | - | 1.92 | 1.93 | - |
| | | Stripping efficiency: Kg/hr | 34 | 43 | - | - | - | - | -- | - | - | - | - | - | - | - |
| | | Cardiac cost:beats/kg of stripping of sugarcane | 76 | 48.2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Dhenkanal | Lac cultivation on Kusum tree | Lac kg | co nti nu e | | - | - | - | - | - | - | - | - | - | - | - | - |
| Dhenkanal | Teak+Cow pea based agrisilvicultural system | Yield kg | | | 25000 | 18550 | | 48200 | 51450 | - | 23200 | 32900 | - | 1.92 | 2.77 | |

2.3 Feedback from KVK to Research System

| Name of KVK | Feedback |
|-------------|--|
| Dhenkanal | Low cost technology for resource poor farmers and sustainability of the technology should be developed |

3. Achievements of Frontline Demonstrations

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

List of technologies demonstrated and popularized during previous years and recommended for large scale adoption in the district

| KVK Name | Crop/ Enterprise | Thematic Area | Technology demonstrated | Details of popularization methods suggested to the Extension system | Horizontal spread of technology | | |
|-----------|---------------------------------|---|---|---|---------------------------------|-------------------|---------------|
| | | | | | No. of villages | No. of farmers | Area in ha |
| Dhenkanal | Paddy | ICM | Cultivation of high yielding rice variety pratikhya in medium land | Training and demonstration | 60 | 1200 | 1800 |
| Dhenkanal | Tuber crops | Varietal evaluation | Introduction of CTCRI variety of sweet potato, elephant foot yam | Training and demonstration | 20 | 80 | 30 |
| Dhenkanal | Maize | ICU | Cultivation of hybrid maize | Training and demonstration | 70 | 800 | 600 |
| Dhenkanal | Maize | INM | Management of acid soil in maize | Training and demonstration | 25 | 700 | 450 |
| Dhenkanal | Paddy & Brinjal | IPM | 1-Stemborer management in summer paddy 2-Shoot and fruit borer management in brinjal | Training and demonstration | 15 | 100 | 80 |
| Dhenkanal | Vegetable | Varietal evaluation | Improved/Hybrid vegetables seeds | Training and demonstration | 35 | 500 | 350 |
| Dhenkanal | Mushroom cultivation | Technique of raising mushroom beds | Cultivation of paddy straw mushroom | Training and demonstration | 40 | 250 | - |
| Dhenkanal | Backyard poultry | Evaluation of breeds | Introduction of Blackrock poultry | Training and demonstration | 35 | 160 | - |
| Dhenkanal | Teak based Agro forestry system | IFS | Alley cropping | Training and demonstration | 24 | 120 | 65 |
| Dhenkanal | Marigold | Small scale income generating enterprises | Introduction of high yielding marigold cutting | Training and demonstration | 15 | 70 | 20 |
| Dhenkanal | Beekeeping | Small scale income | Scientific management of <i>Apis cerana indica</i> | Training and demonstration | 25 | 50 | - |

| | | | | | | | |
|-----------|-------------------|------------------------|---|----------------------------|----|-----|-----|
| | | generating enterprises | | | | | |
| Dhenkanal | Vegetables | Varietal evaluation | Introduction of hybrid cabbage, cauliflower & wilt resistant tomato | Training and demonstration | 15 | 40 | 25 |
| Dhenkanal | Groundnut & Arhar | ICM | High yielding & hybrid variety with recommended dose of fertiliser & pesticides | Training and demonstration | 30 | 600 | 650 |

3.2 Details of FLDs implemented

| KVK Name | Thematic area | Name of Crop/Enterprise | Season and year | Technology demonstrated | Crop-Area (ha) / Entrep - No. | Name of Variety/Technology/Enterprises | Results (q/ha) | | % change | No. of farmers | | | | |
|-----------|-------------------------------|-------------------------|-----------------|--|-------------------------------|--|--------------------------|----------------------------|----------|----------------|----|-----|--------|-------|
| | | | | | | | Demons | Check | | SC | ST | OBC | Others | Total |
| Dhenkanal | INM | Paddy | Kharif,2010 | Soil application of Sulphur @ 30kg / ha. along with recommended dose of fertilizer increases yield of rice | 1.0 | Swarna | 42.5 | 34.5 | 22.3 | 0 | 0 | 5 | 0 | 5 |
| Dhenkanal | Varietal evaluation | Paddy | Kharif,2010 | Cultivation of hybrid rice in medium land condition | 1.0 | Gitanjali | 57.0 | 43.2 | 31.9 | 0 | 0 | 5 | 0 | 5 |
| Dhenkanal | Drudgery reduction | Maize | Kharif,2010 | Use of maize sheller | 1.0 | Maize sheller | 20kg/hr | 2.5kg/hr | 185.7 | 0 | 0 | 3 | 7 | 10 |
| Dhenkanal | Drudgery reduction | Drudgery reduction | Kharif,2010 | Use of twin wheel hoe weeder | 1.0 | Twin wheel hoe weeder | Field Capacity 0.01ha/hr | Field Capacity 0.0048ha/hr | 108.3 | 0 | 0 | 7 | 3 | 10 |
| Dhenkanal | Varietal evaluation | Elephant Foot Yam | Kharif,2010 | Cultivation of Gajendra variety of Elephant Foot Yam | 0.1 | Gajendra | 274 | 220 | 24.5 | 0 | 0 | 5 | 0 | 5 |
| Dhenkanal | IDM | Brinjal | Kharif,2010 | Integrated wilt management in Brinjal | 1.0 | IPM | 225 | 180 | 25 | 0 | 0 | 0 | 5 | 5 |
| Dhenkanal | IDM | Paddy | Kharif,2010 | IPM in Kharif rice | 1.0 | IPM | 45.0 | 35.0 | 28.5 | 0 | 0 | 0 | 5 | 5 |
| Dhenkanal | Small scale income generation | Fish | Kharif,2010 | Integrated fish farming | 1.5 | IFS | Contd. | | | | | | 4 | 4 |
| Dhenkanal | Nutritional management | Fish | Kharif,2010 | Feed management in composite pisci culture | 2.0 | Feed management | Contd. | | | 2 | 1 | 3 | 4 | 10 |

| | | | | | | | | | | | | | | |
|-----------|-------------------------------|-----------------------|--------------|---|-----------|---------------|--------------------------------|--------------------------------|----------------|---|---|---|----|----|
| Dhenkanal | Small scale income generation | Poultry | Kharif,2010 | Backyard poultry rearing | 200 birds | Banaraja | Contd. | | | 3 | 2 | 4 | 11 | 20 |
| Dhenkanal | IFS | Teak | Kharif,2010 | Teak based Agri-silvi cultural system (Teak+Arhar) | 0.5 | Agroforestry | Ht.1.5 m Dia.1.2cm Y9.8q | Ht 1.0m Dia 0.75cm Y6.4q | 50 60 34 | 0 | 3 | 6 | 1 | 10 |
| Dhenkanal | IFS | Eucalyptus | Kharif,2010 | Eucalyptus hybrid based farm forestry | 1.0 | | Ht 1.5 Dia 1.0 | Ht 1.25 Dia 0.75 | 20 33 | 4 | 0 | 1 | 0 | 5 |
| Dhenkanal | IFS | Teak | Kharif,2010 | Boundary plantation of <i>Tectona grandis</i> | 0.5 | | Ht 1.75 Dia 1.5 | Ht 1.25 Dia 1.0 | 40 50 | 0 | 2 | 8 | 0 | 10 |
| Dhenkanal | IFS | <i>Acacia mangium</i> | Kharif,2010 | <i>Acacia mangium</i> + <i>Sesamum</i> based Agri-silvi cultural system | 0.5 | | Ht 2.0 Dia 1.75 Y4.6q | Ht 1.5 Dia 1.0 Y3.0q | 33 75 53 | 0 | 2 | 3 | 0 | 5 |
| Dhenkanal | ICM | Ground Nut | Kharif,2010 | FLD on Groundnut | 5.0 | | 16.4 | 10.0 | 64.0 | | | | | 14 |
| Dhenkanal | ICM | Pigeon pea | Kharif,2010 | FLD on Arhar | 5.0 | | 16.8 | 9.8 | 71.4 | | | | | 14 |
| Dhenkanal | INM | Sunflower | Rabi,2010-11 | Sulphur application in Sunflower | 1.0 | KBSH-1 | Contd. | | | | | | | 10 |
| Dhenkanal | INM | Cauliflower | Rabi,2010-11 | Application of boron in Cauliflower | 0.4 | | 260 | 205 | 21.1 | | | | | 5 |
| Dhenkanal | Varietal evaluation | Banana | Rabi,2010-11 | Cultivation of tissue culture Banana | 0.2 | | Contd. | | | | | | | 6 |
| Dhenkanal | Varietal evaluation | Sweet potato | Rabi,2010-11 | Cultivation of HYV of Sweet potato | 0.2 | | 140 | 105 | 33.3 | | | | | 3 |
| Dhenkanal | Varietal evaluation | Pointed gourd | Rabi,2010-11 | Cultivation of pointed gourd var Swarna Alokik | 0.2 | Swarna Alokik | Contd. | | | | | | | 2 |
| Dhenkanal | IPM | Sugarcane | Rabi,2010-11 | Management of early shoot borer in sugarcane | 1.0 | | Contd. | | | | | | | 5 |
| Dhenkanal | IPM | Potato | Rabi,2010-11 | Control of leaf blight in potato | 1.0 | | 425 | 375 | 13.3 | | | | | 5 |
| Dhenkanal | Small scale income generation | Gladiolous | Rabi,2010-11 | Cultivation of gladiolous in backyard | 0.2 | | 250000 | - | - | | | | | 10 |
| Dhenkanal | Small scale income generation | Mushroom | Rabi,2010-11 | Cultivation of paddy straw mushroom in low cost poly house | 20 beds | | 965g/bed | - | - | | | | | 2 |
| Dhenkanal | ICM | Sunflower | Rabi,2010-11 | FLD on Sunflower | 5.0 | KBSH-1 | Contd. | | | | | | | 14 |

3.3 Economic Impact of FLD

| KVK Name | Name of Crop/ Enterprise | Technology demonstrated | Parameters | | | Cost of cultivation (Rs/ha) | | Gross Return (Rs/ha) | | Average Net Return (Rs/ha) | | Benefit-Cost Ratio (Gross Return / Gross Cost) | |
|-----------|--------------------------|--|----------------------------|------|-------|-----------------------------|-------|----------------------|--------|----------------------------|-------|--|-------------|
| | | | Name and unit of Parameter | Demo | Check | Demo | Check | Demo | Check | Demo | Check | Demo | Local Check |
| Dhenkanal | Paddy | Soil application of Sulphur @ 30kg / ha. along with recommended dose of fertilizer increases yield of rice | | | | 16500 | 15300 | 42200 | 34500 | 25700 | 19200 | 2.56 | 2.25 |
| Dhenkanal | Paddy | Cultivation of hybrid rice in medium land condition | | | | 17600 | 15200 | 57000 | 43200 | 39400 | 28000 | 3.24 | 2.84 |
| Dhenkanal | Maize | Use of maize sheller | | | | 80 | 15 | 200 | 40 | 120 | 25 | 2.50 | 1.67 |
| Dhenkanal | Drudgery reduction | Use of twin wheel hoe weeder | | | | 1823 | 1548 | 3600 | 1728 | 1777 | 180 | 1.97 | 1.11 |
| Dhenkanal | Elephant Foot Yam | Cultivation of Gajendra variety of Elephant Foot Yam | | | | 80000 | 75000 | 229200 | 154000 | 139200 | 79000 | 8.75 | 2.05 |
| Dhenkanal | Brinjal | Integrated wilt management in Brinjal | | | | 35500 | 34500 | 157500 | 126000 | 122500 | 91500 | 4.30 | 3.60 |
| Dhenkanal | Paddy | IPM in Kharif rice | | | | 17000 | 15500 | 45000 | 35000 | 28000 | 19500 | 2.60 | 2.25 |
| Dhenkanal | Fish | Integrated fish farming | | | | 4500 | 1600 | Cont. | | | | | |
| Dhenkanal | Fish | Feed management in composite pisci culture | | | | 7000 | 2800 | Cont. | | | | | |
| Dhenkanal | Poultry | Backyard poultry rearing | | | | 8000 | 2000 | Cont. | | | | | |
| Dhenkanal | Teak | Teak+Arhar based Agri-silvi cultural system | | | | 13500 | 9000 | 29400 | 19200 | 15900 | 10200 | 2.17 | 2.13 |
| Dhenkanal | Eucalyptus | Eucalyptus hybrid based farm forestry | | | | 12500 | 5000 | Cont. | | | | | |
| Dhenkanal | Teak | Boundary plantation of <i>Tectona grandis</i> | | | | 6000 | 4000 | Cont. | | | | | |

| | | | | | | | | | | | | | |
|-----------|----------------|--|--|--|--|--------|-------|------------|------------|------------|------------|------|------|
| Dhenkanal | Acacia mangium | Acacia mangium+Sesamum based Agri-silvi cultural system | | | | 11000 | 7500 | 13340 | 8700 | 2340 | 1700 | 1.21 | 1.16 |
| Dhenkanal | Ground Nut | FLD on Groundnut | | | | 22500 | 16500 | 49200 | 30000 | 26700 | 16500 | 2.19 | 1.81 |
| Dhenkanal | Arhar | FLD on Arhar | | | | 22500 | 17500 | 67200 | 49200 | 44700 | 39200 | 2.99 | 2.24 |
| Dhenkanal | Sunflower | Sulphur application in Sunflower | | | | Cont. | | | | | | | |
| Dhenkanal | Cauliflower | Application of boron in Cauliflower | | | | 39500 | 35000 | 13000 0 | 10250 0 | 90500 | 67500 | 3.29 | 2.93 |
| Dhenkanal | Banana | Cultivation of tissue culture Banana | | | | Cont. | | | | | | | |
| Dhenkanal | Sweet potato | Cultivation of HYV of Sweet potato | | | | 95000 | 90000 | 21000 0 | 16000 0 | 11500 0 | 70000 | 2.21 | 1.77 |
| Dhenkanal | Pointed gourd | Cultivation of pointed gourd var Swarna Alokik | | | | Cont. | | | | | | | |
| Dhenkanal | Sugarcane | Management of early shoot borer in sugarcane | | | | Cont. | | | | | | | |
| Dhenkanal | Potato | Control of leaf blight in potato | | | | 82000 | 78500 | 21250 0 | 18750 0 | 13050 0 | 10900 0 | 2.59 | 2.39 |
| Dhenkanal | Marigold | Cultivation of gladiolous in backyard | | | | 27000 | - | 50000 | - | 23000 | - | 1.85 | - |
| Dhenkanal | Mushroom | Cultivation of paddy straw mushroom in low cost poly house | | | | 55/bed | - | 90/bed | - | 35/bed | - | 1.64 | - |
| Dhenkanal | Sunflower | FLD on Sunflower | | | | Contd. | | | | | | | |

3.4 Feedback of the Farmers

| Name of KVK | Feedback |
|-------------|---|
| Dhenkanal | <ol style="list-style-type: none"> 1. Input should be local available 2. Cost of technology should be accepted by the poor farmers <p>3. Door step technologies will be beneficial for the adopted farmers</p> |

3.5 Training and Extension activities under FLD

| KVK Name | Crop | Activity | No. of activities organized | Number of participants | Remarks |
|-----------|--------------|--------------------------------------|-----------------------------|------------------------|---------|
| Dhenkanal | Pegion pea | Field days | 01 | 50 | |
| | | Farmers Training | 01 | 25 | |
| | | Media coverage | 01 | - | |
| | | Training for extension functionaries | 01 | - | |
| Dhenkanal | Sweet potato | Field days | 01 | 50 | |
| | | Farmers Training | 01 | 25 | |
| | | Media coverage | - | - | |
| | | Training for extension functionaries | - | - | |
| Dhenkanal | Groundnut | Field days | 01 | 50 | |
| | | Farmers Training | 01 | 25 | |
| | | Media coverage | 01 | - | |
| | | Training for extension functionaries | 01 | - | |

4. Documentation of the need assessment conducted by the KVK for the training programme

| Name of KVK | Category of the training | Methods of need assessment | Date and place | No. Of participants involved |
|-------------|--------------------------|--|--------------------------|------------------------------|
| Dhenkanal | FW | Exploratory survey – reclamation of acid soil has increase the productivity of acid soil & the farmers are interested for reclamation of acid soil. | 14.03.2011, Khandabandha | 25 |
| Dhenkanal | RY | Group discussion. It has observed that vermi compost increases the soil organic matter. | 31.12.10 Saptasayapada | 15 |
| Dhenkanal | FW | Field visit - low seed formation & oil content. | 17.11.10 Bhangamala | 25 |
| Dhenkanal | FW | Group discussion - less soil micro organism, it increases the soil microbes & soil fertility. | 17.12.10 Kauriapala | 25 |
| Dhenkanal | FW | Meetings – Low yield, High inputs in paddy cultivation, SRI paddy cultivation with less input & increase yield. | 18.01.11, Kui | 25 |
| Dhenkanal | IS | Field visit - Micronutrient deficiency symptoms observed in vegetables so by application of micro nutrient, deficiency in crops decrease. | 22.02.11, ONC | 15 |
| Dhenkanal | FW | Group discussion – It has been observed by chemical farming soil & environment becomes polluted & poisonings in agriculture produce. So by organic farming above problems may reclaim. | 24.02.11, Derasing | 25 |
| Dhenkanal | FW | Meeting – Farmer are not aware about soil fertility status so fertiliser application may cause problem. So by soil testing above problem may solved. | 23.03.11, Jamujhara, | 25 |
| Dhenkanal | IS | Group discussion – Due to improper management of orchard affects yield so by training on “Rejuvenation of old orchard Cashew & Mango” old orchard may be revived and yield may increase. | 21.10.10 ONC | 15 |
| Dhenkanal | FW | Exploratory survey – Less water availability affects the plant survival in orchards so Drip irrigation system is the best method for orchard crops by which Water use efficiency of crops may increases. | 27.10.10, Dadhikhai | 25 |

| | | | | |
|-----------|----|--|---|----|
| Dhenkanal | FW | Group discussion - Though mango and cashew is major fruit crops in this area so farmer are interested to know scientific method of Management of Cashew and Mango orchard by which yield will increase. | 23.11.10 Halandikundi | 25 |
| Dhenkanal | RY | Group discussion – By seeing the demand of flower in this region youths are come forward for Commercial cultivation of flowers for income generation. | 26.11.10,27.11.10, ONC | 15 |
| Dhenkanal | FW | Group discussion - Commercial cultivation of summer vegetable increases the farmer's house hold income and decreases soil harmful microbes and insect's pest residues. | 29.12.11 Tumusinga | 25 |
| Dhenkanal | FW | Exploratory survey – Due to excess yield of some fruits & vegetables it is difficult to market the produce so Value addition of fruit & vegetable crops is essential which increase farmers income & sustain livelihood with minimizing the post harvest loss. | 27.01.11, ONC | 25 |
| Dhenkanal | IS | Exploratory survey - Best utilization of land by inter cropping in orchards which increases the yield & land productivity. | 19.02.11,20.02.11, ONC | 15 |
| Dhenkanal | FW | Group discussion - Farmers are interested to do Medicinal and Aromatic plants cultivation though there is a high demand of raw materials of medicinal plants by medicinal industries. | 22.02.11, Derasingh | 25 |
| Dhenkanal | FW | Diagnostic field visit - Use of neem and neem products for control of insect pests is environment friendly and also no poison effect on farm produce. | 20.10.10, Majhisahi | 25 |
| Dhenkanal | FW | GD – Proper & scientific method of Spray solution preparation and spraying method decreases the risk of penetration of poison solution in human body and proper dose of solution also have a good effect on plants. | 16.01.11, Kui | 25 |
| Dhenkanal | FW | PRA - Nursery management for disease control in vegetable produce healthy & disease free seedlings. | 18.02.11, Majhisahi | 25 |
| Dhenkanal | IS | Diagnostic field visit - IPM reduces the high toxicity in agriculture produce. | 19.02.11 - 20.02.11 ONC 29.03.11-30.03.11, ONC | 15 |
| Dhenkanal | FW | Group discussion - Fruit & shoot borer in brinjal in this area so farmers are interested to know the method of control. | 20.03.11 Badagila | 25 |
| Dhenkanal | IS | Exploratory survey -Paddy straw mushroom cultivation provides alternative employment opportunity for farm women. | 12.10.10,13.10.10.ONC | 15 |
| Dhenkanal | FW | Group discussion - Dhingri mushroom cultivation provides employment opportunity during winter so FW are interested to take of this technique. | 16.10.11 Majhisahi | 50 |
| Dhenkanal | FW | Group discussion – Though there is sufficient production of mushroom in the village and the farmers are interested for value added products of mushrooms like pickles, sauce, dried mushroom, pampad. | 16.11.11, Bhangamal | 25 |
| Dhenkanal | FW | Group discussion – Dadhikhai is an abundant producer of vegetables farmers is interested for value addition of vegetables. | 04.12.11, Dadhikhai | 50 |
| Dhenkanal | FW | Exploratory survey Yield of improved sickles has increase the efficiency of the farmer side by side it helps in drudgery reduction. | 23.12.10 Kaunriapala | 25 |
| Dhenkanal | RY | Exploratory survey- There is huge production of tomato during winter so the price of tomato reduces to Rs. 1 per Kg, so the farmers are interested for value addition of the tomato. | 4.01.11-05.01.11, ONC | 15 |
| Dhenkanal | FW | Group discussion-Value addition of the tuber crops increases the price of the product so the farmers are interested for value addition. | 08.01.11, Jamujhara | 25 |
| Dhenkanal | IS | Group discussion – Govt. is encouraging for formation of SHGs for providing loan for taking up different livelihood activities. | 21.01.11-22.01.11, ONC | 15 |

| | | | | |
|-----------|----|---|------------------------------|----|
| Dhenkanal | FW | Group discussion – Energy plantation will provide fuel wood to the farmers sustainably so the farmers are interested for plantation on waste land. | 25.10.10, Kamuning | 25 |
| Dhenkanal | FW | Group discussion – There is Arjun & Asana trees in the village which can be taken up for tasar cultivation. | 25.11.10, Majhisahi | 25 |
| Dhenkanal | FW | Group discussion – Lac cultivation can provide alternative employment opportunity to the farmers. | 24.12.10, Khalibandha | 25 |
| Dhenkanal | RY | Exploratory survey- It provides employment opportunity to the rural youths by establishing nurseries. | 28.12.10-29.12.10, Jamujhara | 15 |
| Dhenkanal | RY | Group discussion – Medicinal plants are in demand and farmers are interested for cultivation | 21.01.11-22.01.11, ONC | 15 |
| Dhenkanal | FW | Group discussion - There is availability of sal & siali leaves in the village forest so leaf plate making from the sal & siali leaves provides employment opportunity to the rural farm women. | 29.01.11, Gunadei | 25 |
| Dhenkanal | IS | Group discussion-Availability of sufficient no. of healthy Bamboo planting materials. Farmers are interested for raising bamboo plantation by this method | 15.02.11.16.02.11.ONC | 15 |
| Dhenkanal | FW | PRA-Farmers are interested for raising plantations with improved method of rubber cultivation. | 18.2.11.Majhisahi | 25 |
| Dhenkanal | FW | GD-Farmers are interested for cultivating plants for biodiesel production on their wastelands. | 18.3.11.Badagilla | 25 |
| Dhenkanal | IS | GD-Joint forest management increases the productivity of the forest | ONC | 15 |
| Dhenkanal | FW | Exploratory survey-Disease in the poultry birds causes mortality & loss. The farmers are interested for training on prevention of disease. | 24.10.10.Dadhikhai | 25 |
| Dhenkanal | IS | Exploratory survey-Balanced food has increased the milking of the cow. Farmers are interested for preparation of balanced food using local resources. | 20.11.10. ONC | 15 |
| Dhenkanal | FW | Exploratory survey-Feed management in carp culture increases the productivity. Farmers are interested for training in feed management. | 25.11.10.Kamuning | 25 |
| Dhenkanal | RY | Exploratory survey-Farmers are interested for producing fry & fingerlings as sufficient no of healthy fingerlings are available on time& provide employment | 19.12.10.ONC | 15 |
| Dhenkanal | FW | GD-farmers are interested for production and rearing of fish fry for cultivation in their own ponds as sufficient no of healthy fingerlings are available on time | 22.12.10, Jamujhara | 25 |
| Dhenkanal | FW | GD- forage as supplementary feed increases the milk yield of the cow. Farmers are interested for training on forage as a cattle feed | 26.12.10, Kahalibandha | 25 |
| Dhenkanal | FW | PRA-Presence of community pond and WHS encourages the farmers to have their own seed production unit for timely supply of sufficient no. of healthy fingerlings at low cost | 21.01.11, Majhisahi | 25 |
| Dhenkanal | IS | GD- There is good nos. of poultry unit in the district, poultry birds are vulnerable to no. of diseases due to poor management .Training will be helpful for dissemination of poultry health care tips. | 19.02.11.20.02.11.ONC | 15 |
| Dhenkanal | FW | Exploratory survey-Due to mineral deficiency, imbalanced food. cows remain infertile. Farmers are interested for infertility management of cows. | Gunadei.26.02.11 | 25 |
| Dhenkanal | RY | Exploratory survey-There is demand for ornamental fish in the nearby city. Rural youths are interested for its cultivation. | 19.03.11.20.03.11.ONC | 25 |
| Dhenkanal | RY | GD-There is demand of goat in the city.Some youths are interested for goat rearing. | 19.03.11.20.03.11.ONC | 15 |

| | | | | |
|-----------|----|---|--|----|
| Dhenkanal | RY | GD-Formation of farmers club will be helpful for providing employment opportunity to the villagers through bank loans. | 10.11.10-11.11.10 Kamuning | 15 |
| Dhenkanal | IS | GD-PRA will be helpful for assessing the need of the village for development | 12.11.10 13.11.10 .JAO off., Hindol | 15 |
| Dhenkanal | IS | Group discussion – Govt. is encouraging for formation of SHGs for providing loan for taking up different livelihood activities | 23.12.10 -24.12.10 Gunadei | 15 |
| Dhenkanal | RY | Exploratory survey-There is no of mushroom entrepreneurs in the district. Many rural youths are interested for mushroom spawn production. | 28.01.11 -29.01.11 ONC | 15 |

Abbreviation Used

| | |
|------------------------------------|---|
| FW | (A) Farmers & Farm Women |
| RY | (B) Rural Youths |
| IS | (C) Extension Personnel |
| ONC | On Campus Training Programme |
| OFC | Off Campus Training Programme |
| M | Male |
| F | Female |
| T | Total |
| Thematic Areas for Training | |
| CRP | Crop Production |
| HOV | Horticulture – Vegetable Crops |
| HOF | Horticulture-Fruits |
| HOO | Horticulture- Ornamental Plants |
| HOP | Horticulture- Plantation crops |
| HOT | Horticulture- Tuber crops |
| HOS | Horticulture- Spices |
| HOM | Horticulture- Medicinal and Aromatic Plants |
| SFM | Soil Health and Fertility Management |
| LPM | Livestock Production and Management |
| WOE | Home Science/Women empowerment |
| AEG | Agril. Engineering |
| PLP | Plant Protection |
| FIS | Fisheries |
| PIS | Production of Inputs at site |
| CBD | Capacity Building and Group Dynamics |
| AGF | Agro-forestry |
| OTH | Others |
| RYH | Rural Youth |
| EXP | Extension Personnel |

5. TRAINING PROGRAMMES

1. Training programmes should be strictly covered under above mentioned thematic areas only,
2. For category, training type and thematic area, mention code/abbreviations only

Table 5.1. Details of Training programmes conducted by the KVKs

| Name of KVK | Category | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|----------|---------------|---------------|--|----------------|-----------------|--------------|----|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| Dhenkanal | FW | ONC | CRP | | | | | | | | | | | |
| Dhenkanal | RY | ONC | HOV | Planting material production of vegetables | 1 | 2 | 1 | 0 | 9 | 0 | 0 | 0 | 5 | 0 |
| Dhenkanal | FW | OFC | HOV | Winter vegetable cultivation | 1 | 1 | 0 | 0 | 0 | 0 | 21 | 4 | 0 | 0 |
| Dhenkanal | FW | OFC | HOV | Summer vegetable cultivation | 1 | 1 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 19 |
| Dhenkanal | RY | OFC | HOV | Protected cultivation of vegetables | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 16 | 6 |
| Dhenkanal | FW | OFC | HOF | Cultivation of mango cashew and banana | 1 | 1 | 0 | 0 | 0 | 0 | 23 | 2 | 0 | 0 |
| Dhenkanal | FW | OFC | HOF | Management of young plant in orchard | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 |
| Dhenkanal | FW | OFC | HOF | Management of mango cashew and banana | 1 | 1 | 0 | 0 | 18 | 0 | 1 | 0 | 6 | 0 |
| Dhenkanal | IS | ONC | HOF | Intercropping between mango & cashew | 1 | 2 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | HOF | Micro irrigation system in fruit orchard | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 21 | 0 |
| Dhenkanal | FW | OFC | HOF | Value addition of fruits | 1 | 1 | 0 | 0 | 17 | 1 | 0 | 0 | 7 | 0 |
| Dhenkanal | RY | OFC | HOO | | | | | | | | | | | |
| Dhenkanal | IS | | HOP | | | | | | | | | | | |
| Dhenkanal | FW | OFC | HOT | Production management of tuber crops | 1 | 1 | 0 | 0 | 3 | 4 | 0 | 0 | 5 | 13 |
| Dhenkanal | FW | OFC | HOS | Cultivation of spices ginger and turmeric | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 21 | 4 |
| Dhenkanal | IS | ONC | HOM | Management of Medicinal garden | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 14 | 0 |
| Dhenkanal | FW | OFC | SFM | Integrated nutrient management in paddy | 1 | 1 | 19 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Integrated weed management in kharif groundnut | 1 | 1 | 14 | 3 | 7 | 1 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Soil test based fertilizer response in | 1 | 1 | 6 | 12 | 5 | 2 | 0 | 0 | 0 | 0 |

| Name of KVK | Category | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|----------|---------------|---------------|--|----------------|-----------------|--------------|----|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| | | | | crops | | | | | | | | | | |
| Dhenkanal | FW | OFC | SFM | Cultivation practices of hybrid rice | 1 | 1 | 22 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Cultivation practices of rabi black gram | 1 | 1 | 0 | 0 | 20 | 5 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Sulphur management in medium land paddy | 1 | 1 | 16 | 1 | 0 | 0 | 8 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Sulphur management in sunflower | 1 | 1 | 10 | 13 | 2 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Use of biofertilizer in crops | 1 | 1 | 1 | 13 | 0 | 11 | 0 | 0 | 0 | 0 |
| Dhenkanal | RY | OFC | SFM | Vermicomposting technique | 1 | 2 | 9 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Importance of soil testing & technique of soil sampling | 1 | 1 | 7 | 0 | 16 | 0 | 2 | 0 | 0 | 0 |
| Dhenkanal | IS | OFC | SFM | Micronutrient management in vegetables | 1 | 2 | 9 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | SFM | Acid soil management | 1 | 1 | 0 | 3 | 5 | 17 | 0 | 0 | 0 | 0 |
| Dhenkanal | | | LPM | | | | | | | | | | | |
| Dhenkanal | FW | OFC | WOE | Preparation of low cost nutritious diet for rural infants and lactating mother | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 |
| Dhenkanal | FW | OFC | WOE | Cultivation of paddy straw mushroom | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 42 |
| Dhenkanal | FW | OFC | WOE | Use of twin wheel hoe weeder for drudgery reduction | 1 | 1 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | WOE | Use of mandua weeder in SRI method for drudgery reduction | 1 | 1 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 18 |
| Dhenkanal | FW | OFC | WOE | Use of hand ridger for drudgery reduction | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 |
| Dhenkanal | FW | OFC | WOE | Use of maize sheller for drudgery reduction | 1 | 1 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 19 |
| Dhenkanal | FW | OFC | WOE | Cultivation of paddy straw mushroom in low cost poly house | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 21 |
| Dhenkanal | FW | OFC | WOE | Use of sugarcane stripper for drudgery reduction | 1 | 1 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | WOE | Cultivation of gladiolus | 1 | 1 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | WOE | Value added products from mushroom | 1 | 1 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 7 |

| Name of KVK | Category | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|----------|---------------|---------------|--|----------------|-----------------|--------------|----|----|----|----|----|--------|---|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| Dhenkanal | FW | OFC | WOE | Cultivation of Dhingri mushroom | 1 | 1 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | RY | ONC | WOE | Cultivation of mushroom round the year | 1 | 2 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | RY | ONC | WOE | Income generating activities | 1 | 2 | 0 | 10 | 0 | 5 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | WOE | Value added products from groundnut | 1 | 1 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | IS | ONC | WOE | Off season mushroom cultivation | 1 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 8 |
| Dhenkanal | | | AEG | | | | | | | | | | | |
| Dhenkanal | FW | OFC | FIS | Site selection and construction of fish pond | 1 | 1 | 17 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Integrated fish farming | 1 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | IS | ONC | FIS | Advanced technology for carp seed production | 1 | 2 | 12 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Backyard poultry | 1 | 1 | 22 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Infertility management of cows | 1 | 1 | 8 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Fresh water prawn culture | 1 | 1 | 0 | 0 | 0 | 0 | 22 | 3 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Goat rearing and management | 1 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Soil and water quality management in pisciculture pond | 1 | 1 | 22 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Fodder cultivation for milking cow | 1 | 1 | 22 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Composite pisciculture | 1 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | RY | ONC | FIS | Goat rearing for self employment | 1 | 2 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 |
| Dhenkanal | IS | ONC | FIS | Integrated fish farming for self employment | 1 | 2 | 10 | 3 | 1 | 0 | 0 | 1 | 0 | 0 |
| Dhenkanal | RY | ONC | FIS | Fish seed production and rearing | 1 | 2 | 0 | 0 | 0 | 0 | 8 | 7 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Fish seed production technology | 1 | 1 | 21 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | IS | ONC | FIS | Prevention of poultry disease | 1 | 2 | 14 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | FIS | Pond management after fish harvesting | 1 | 1 | 24 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Dhenkanal | RY | ONC | FIS | Acquarium fish culture for self employment | 1 | 2 | 12 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | AGF | Method of cultivation of teak | 1 | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | AGF | Commercial cultivation of Acacia mangium | 1 | 1 | 10 | 0 | 0 | 0 | 15 | 0 | 0 | 0 |

| Name of KVK | Category | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|----------|---------------|---------------|--|----------------|-----------------|--------------|----|----|----|----|----|--------|---|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| Dhenkanal | FW | OFC | AGF | Improved method of cultivation of Bammbusa vulgaris | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 |
| Dhenkanal | FW | OFC | AGF | Cultivation of Eucalyptus hybrid | 1 | 1 | 0 | 0 | 0 | 0 | 23 | 2 | 0 | 0 |
| Dhenkanal | FW | OFC | AGF | Scientific management of Asan and Arjun trees and tassar cultivation | 1 | 1 | 0 | 0 | 0 | 0 | 22 | 3 | 0 | 0 |
| Dhenkanal | FW | OFC | AGF | Agro forestry | 1 | 1 | 0 | 0 | 7 | 3 | 0 | 0 | 11 | 4 |
| Dhenkanal | FW | OFC | AGF | Energy plantation and its management for fuel wood production | 1 | 1 | 23 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | AGF | Cultivation practices of kusum tree | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 6 |
| Dhenkanal | RY | OFC | AGF | QPM in forestry | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 2 |
| Dhenkanal | FW | OFC | AGF | Cultivation of plants for Bio diesel production | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 21 | 2 |
| Dhenkanal | RY | OFC | AGF | Cultivation of medicinal plants | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| Dhenkanal | IS | ONC | AGF | Joint forest management | 1 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 7 | 0 |
| Dhenkanal | FW | OFC | AGF | Lac cultivation | 1 | 1 | 0 | 0 | 0 | 0 | 11 | 14 | 0 | 0 |
| Dhenkanal | IS | ONC | AGF | Propagation of Bamboo through flute technology | 1 | 2 | 4 | 0 | 1 | 0 | 10 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | AGF | Plate preparation from sal leaf | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 |
| Dhenkanal | FW | OFC | PLP | Integrated pest management practices for control of stem borer in kharif paddy | 1 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | PLP | Integrated wilt management in brinjal | 2 | 2 | 25 | 0 | 0 | 0 | 23 | 2 | 0 | 0 |
| Dhenkanal | RY | ONC | PLP | Bee keeping as source of income | 2 | 4 | 6 | 24 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | PLP | Integrated pest management in cole crops | 2 | 2 | 22 | 21 | 5 | 2 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | PLP | Importance of bio agents and their role in control of crop pest in paddy | 1 | 1 | 18 | 2 | 7 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | PLP | Integrated disease management in Potato | 1 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | PLP | Control of mustard aphids by using the botanicals | 1 | 1 | 13 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | FW | OFC | PLP | Integrated pest management in vegetables | 1 | 1 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Name of KVK | Category | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|----------|---------------|---------------|---|----------------|-----------------|--------------|----|----|----|----|----|--------|---|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| Dhenkanal | IS | ONC | PLP | Integrated pest management in summer rice | 1 | 2 | 10 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |
| Dhenkanal | IS | ONC | PLP | Integrated pest management in vegetables | 1 | 2 | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 5.2. Details of Vocational training programmes for Rural Youth conducted by the KVKs

| Name of KVK | Training title | Crop / Enterprise | Identified Thrust Area | Duration of training (days) | Number of Beneficiaries | | | | | |
|-------------|---|-------------------|-------------------------|-----------------------------|-------------------------|---|----|---|--------|---|
| | | | | | SC | | ST | | Others | |
| | | | | | M | F | M | F | M | F |
| Dhenkanal | Vermicomposting | Enterprise | Vermicomposting | 2 | 0 | 0 | 5 | 0 | 10 | 0 |
| Dhenkanal | Cultivation of flowers for income generation | Crop | Floriculture | 2 | 0 | 0 | 0 | 0 | 15 | 0 |
| Dhenkanal | Raising of quality planting material | Crop | Agroforestry | 2 | 0 | 0 | 15 | 0 | 0 | 0 |
| Dhenkanal | Cultivation practices of medicinal plants | Crop | Medicinal plants | 2 | 0 | 0 | 0 | 0 | 15 | 0 |
| Dhenkanal | Production & rearing technology of fish | Enterprise | Integrated fish farming | 2 | 0 | 0 | 0 | 0 | 15 | 0 |
| Dhenkanal | Ornamental fish culture an avenue for income generation | Enterprise | Ornamental fish culture | 2 | 0 | 0 | 0 | 0 | 15 | 0 |
| Dhenkanal | Rearing of goat for self employment | Enterprise | Goatery | 2 | 0 | 7 | 0 | 0 | 1 | 7 |
| Dhenkanal | Farmers club formation | Enterprise | - | 2 | 0 | 0 | 0 | 0 | 15 | 0 |
| Dhenkanal | Mushroom spawn preparation for income generation | enterprise | Mushroom | 2 | 0 | 0 | 0 | 0 | 15 | 0 |

Table 5.3. Details of training programme conducted for livelihood security in rural areas by the KVKs

| Name of KVK | Training title | Self employed after training | | | Number of persons employed else where |
|-------------|----------------------------------|------------------------------|-----------------|----------------------------|---------------------------------------|
| | | Type of units | Number of units | Number of persons employed | |
| Dhenkanal | Bee keeping | Bee units | 10 | 4 | - |
| Dhenkanal | Paddy straw mushroom cultivation | Mushroom beds | 650 | 50 | - |
| Dhenkanal | Vermicomposting | Vermicompost units | 5 | 5 | - |
| Dhenkanal | Nursery raising | Nursery units | 4 | 4 | - |

| | | | | | |
|-----------|-----------------|----------------------------|-------|----|---|
| Dhenkanal | Seed production | Paddy seed production area | 20 ha | 5 | - |
| Dhenkanal | Floriculture | Marigold units | 1 ha | 10 | - |

Table 5.4. Sponsored Training Programmes

| Name of KVK | Title | Thematic area (as given in abbreviation table) | Sub-theme (as per column no 5 of Table T1) | Client (FW/RY/IS) | Duration (days) | No. of courses | No. of Participants | | | | | | Sponsoring Agency | Fund received for training (Rs.) |
|-------------|-------|--|--|-------------------|-----------------|----------------|---------------------|---|----|---|----|---|-------------------|----------------------------------|
| | | | | | | | Others | | SC | | ST | | | |
| | | | | | | | M | F | M | F | M | F | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Table 5.5 Training Programmes for Panchayatiraj Institutions Office-bearers & members

| Name of KVK | Title | Thematic area (as given in abbreviation table) | Sub-theme (as per column no 5 of Table T1) | Client (FW/RY/IS) | Duration (days) | No. of courses | No. of Participants | | | | | | Sponsoring Agency | Fund received for training (Rs.) |
|-------------|-------|--|--|-------------------|-----------------|----------------|---------------------|---|----|---|----|---|-------------------|----------------------------------|
| | | | | | | | Others | | SC | | ST | | | |
| | | | | | | | M | F | M | F | M | F | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Table 5.6 Evaluation/Follow up & Impact of the training programmes conducted by the KVK (all types of trainings)

| Name of KVK | Title of the training | No. of trainees | Change in knowledge (Score) | | Change in Production (q/ha) | | Change in Income (Rs) | | Impact on |
|-------------|---------------------------------------|-----------------|-----------------------------|-------|-----------------------------|-------|-----------------------|-------|---|
| | | | Before | After | Before | After | Before | After | |
| Dhenkanal | Cultivation of practices of sunflower | 25 | 42 | 67 | 9.8 | 11.2 | 11 000 | 14000 | 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income 1. 126 ha 2. Out of 25 trainees, 20 farmers adopted the recommended scientific sunflower cultivation 3. (i) Knowledge: 59.0 (After-Before)/Before *100 (ii) Production: 14.3 % (ii) Income: 27.3 % |

| | | | | | | | | | |
|-----------|---|----|----|----|-----|-----|--------|--------|---|
| Dhenkanal | Drip irrigation for orchard crops | 25 | 28 | 42 | 320 | 410 | 120000 | 160000 | 1. 60 ha 2. Out of 25 trainees,5 farmers adopted drip irrigation for orchard crops 3. (i) Knowledge: 50 (After-Before)/Before *100 (ii) Production: 28 % (ii) Income: 33 % |
| Dhenkanal | Management of cashew and mango orchards | 25 | 22 | 36 | 280 | 320 | 98000 | 112000 | 1. 106 ha 2. Out of 25 trainees,5 farmers adopted drip irrigation for orchard crops 3. (i) Knowledge: 50 (After-Before)/Before *100 (ii) Production: 28 % (ii) Income: 33 % |
| Dhenkanal | Production technology of summer vegetable crops | 25 | 28 | 42 | 220 | 310 | 44000 | 62000 | 1. 80 ha 2. Out of 25 trainees,15 farmers adopted the technology 3. (i) Knowledge: 50 (After-Before)/Before *100 (ii) Production: 41 % (ii) Income: 41 % |
| Dhenkanal | Fruit borer management in tomato | 25 | 26 | 37 | 180 | 220 | 36000 | 44000 | 1. 62 ha 2. Out of 25 trainees,10 farmers adopted the technology 3. (i) Knowledge: 50 (After-Before)/Before *100 (ii) Production: 22 % (ii) Income: 22 % |

| | | | | | | | | | |
|-----------|---|----|----|----|---------------|---------------|-----|-----|--|
| Dhenkanal | Cultivation of Dhingri mushroom | 25 | 38 | 65 | 0.8kg/ bed | 1.0kg/ bed | 48 | 60 | 1. 25 farmers 2. Out of 25 trainees,5 farmers adopted mushroom cultivation 3. (i) Knowledge: 71 (After-Before)/Before *100 (ii) Production: 25 % (ii) Income: 25 % |
| Dhenkanal | Prevention of diseases in broiler birds | 25 | 27 | 35 | 1.5 | 1.9 | 150 | 190 | 1. 30 farmers 2. Out of 25 trainees,8 farmers adopted the technology 3. (i) Knowledge: 66 (After-Before)/Before *100 (ii) Production: 26 % (ii) Income: 27 % |
| Dhenkanal | Scientific management of plantations for Tassar cultivation | 25 | 21 | 32 | 0 | 0 | 0 | 0 | 1. 2 ha 2. Out of 25 trainees,5 farmers adopted the technology 3. (i) Knowledge: 52 (After-Before)/Before *100 |
| Dhenkanal | Lac cultivation | 25 | 20 | 32 | - | - | - | - | 1. 2 ha 2. Out of 25 trainees,3 farmers adopted the technology 3. (i) Knowledge: 60 (After-Before)/Before *100 |

| | | | | | | | | | |
|-----------|---|----|----|----|-------------|--------------|-------|-------|---|
| Dhenkanal | Preparation of leaf plates from Sal and Siali leaf | 25 | 32 | 46 | 800 no/d | 1500 No/d | 320 | 600 | 1. 40farmers 2. Out of 25 trainees,15 farmers adopted the tecchnology 3. (i) Knowledge: 44 (After-Before)/Before *100 (ii) Production: 87 % (ii) Income: 88 % |
| Dhenkanal | Vermi-composting | 25 | 48 | 74 | 6 | 10 | 3000 | 4500 | 1. 25 farmers 2. Out of 25 trainees,7 farmers adopted the tecchnology 3. (i) Knowledge: 75 (After-Before)/Before *100 (ii) Production: 66 % (ii) Income: 50 % |
| Dhenkanal | Commercial cultivation of flowers for income generation | 25 | 32 | 54 | 160 | 180 | 32000 | 36000 | 1. 6 ha 2. Out of 25 trainees,5 farmers adopted the tecchnology 3. (i) Knowledge: 65(After-Before)/Before *100 (ii) Production: 12.5 % (ii) Income: 12% |
| Dhenkanal | Scientific Bee keeping for self employment | 25 | 45 | 74 | 2kg | 2.5kg | 300 | 375 | 1. 25 farmers 2. Out of 25 trainees,5 farmers adopted the tecchnology 3. (i) Knowledge: 64 (After-Before)/Before *100 (ii) Production: 25 % (ii) Income: 25% |

| | | | | | | | | | |
|-----------|--|----|----|----|----|----|--------|--------|---|
| Dhenkanal | Rearing of goats for self employment | 25 | 60 | 82 | 12 | 14 | 2400 | 2800 | 1. 25 farmers 2. Out of 25 trainees,6 farmers adopted the tecchnology 3. (i) Knowledge: 37 (After-Before)/Before *100 (ii) Production: 17 % (ii) Income: 16.6 % |
| Dhenkanal | Production and rearing technology for fish fries and fingerlings | 15 | 36 | 54 | 15 | 22 | 120000 | 176000 | 1. 12ha 2. Out of 25 trainees,8 farmers adopted the tecchnology 3. (i) Knowledge: 50 (After-Before)/Before *100 (ii) Production: 46 % (ii) Income: 46 % |
| Dhenkanal | Preparation of value added products from tomato | 15 | 28 | 42 | 0 | 0 | 2500 | 3200 | 1. 25 farmers 2. Out of 25 trainees,5 farmers adopted the tecchnology 3. (i) Knowledge: 50 (After-Before)/Before *100 (ii) Income: 28% |

6. EXTENSION ACTIVITIES

| Name of the KVK | Activity | No. of activities (Targeted) | No. of activities (Achieved) | Detail of Participants | | | | | | Remarks | | |
|-----------------|-----------------------|------------------------------|------------------------------|------------------------|----|-----------------|----|---------------------|---|--------------------------------|-----------------------------------|-------------|
| | | | | Farmers (Others) | | SC/ST (Farmers) | | Extension Officials | | Purpose | Topic s | Crop Stages |
| | | | | M | F | M | F | M | F | | | |
| Dhenkanal | Field Day | 6 | 4 | 135 | 15 | 35 | 15 | 8 | 0 | FLD | Oilseed/ water melon/ mushroom | Harves ting |
| Dhenkanal | Kisan Mela | 1 | 1 | 66 | 30 | 3 | 1 | 6 | 0 | Aware ness | - | Harves ting |
| Dhenkanal | Kisan Ghosthi | 6 | 4 | 85 | 15 | 14 | 6 | - | 0 | - | - | - |
| Dhenkanal | Exhibition | 2 | 2 | 100 | 20 | 60 | 20 | 10 | 0 | To show exhibit s | - | - |
| Dhenkanal | Film Show | 8 | 10 | 240 | 10 | 40 | 10 | - | 0 | To disseminate new technology | Multi disciplin e | - |
| Dhenkanal | Method Demonstrations | 2 | 2 | 40 | 5 | 5 | 10 | - | 0 | To demon strate new technology | Weed control/ poly house mushroom | - |
| Dhenkanal | Farmers Seminar | - | - | - | - | - | - | - | - | - | - | - |
| Dhenkanal | Workshop | 3 | 2 | 32 | 4 | 4 | 0 | 0 | 0 | - | - | - |
| Dhenkanal | Group meetings | 6 | 6 | 130 | 10 | 35 | 5 | 0 | 0 | | | |
| Dhenkanal | Lectures delivered as | 8 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | Multi disciplin | -- |

| Name of the KVK | Activity | No. of activities (Targeted) | No. of activities (Achieved) | Detail of Participants | | | | | | Remarks | | |
|-----------------|-----------------------------------|------------------------------|------------------------------|------------------------|----|-----------------|----|---------------------|---|---------|------------------------|-------------|
| | | | | Farmers (Others) | | SC/ST (Farmers) | | Extension Officials | | Purpose | Topic s | Crop Stages |
| | | | | M | F | M | F | M | F | | | |
| | resource persons | | | | | | | | | | e | |
| Dhenkanal | Newspaper coverage | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | - | | |
| Dhenkanal | Radio talks | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - |
| Dhenkanal | TV talks | 2 | - | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - |
| Dhenkanal | Popular articles | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | - | Multi disciplin e | - |
| Dhenkanal | Extension Literature | 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | - | Multi disciplin e | - |
| Dhenkanal | Farm advisory Services | 40 | 50 | 30 | 5 | 10 | 5 | 0 | 0 | - | - | - |
| Dhenkanal | Scientific visit to farmers field | 30 | 40 | 60 | 24 | 12 | 4 | 0 | 0 | - | - | - |
| Dhenkanal | Farmers visit to KVK | 120 | 130 | 85 | 15 | 25 | 5 | 0 | 0 | - | - | |
| Dhenkanal | Diagnostic visits | 24 | 65 | 40 | 12 | 10 | 3 | 0 | 0 | - | - | - |
| Dhenkanal | Exposure visits | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - |
| Dhenkanal | Ex-trainees Sammelan | 4 | 10 | 210 | 45 | 30 | 15 | 0 | 0 | - | To study impact | - |
| Dhenkanal | Soil health Camp | 3 | 3 | 85 | 15 | 20 | 7 | 0 | 0 | - | Soil sample collection | - |
| Dhenkanal | Animal Health Camp | 2 | 2 | 64 | 12 | 20 | 4 | 0 | 0 | - | Mass Vaccination | - |
| Dhenkanal | Agri mobile clinic | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - |

| Name of the KVK | Activity | No. of activities (Targeted) | No. of activities (Achieved) | Detail of Participants | | | | | | Remarks | | |
|-----------------|------------------------------------|------------------------------|------------------------------|------------------------|----|-----------------|----|---------------------|---|---------|----------------------------|-------------|
| | | | | Farmers (Others) | | SC/ST (Farmers) | | Extension Officials | | Purpose | Topic s | Crop Stages |
| | | | | M | F | M | F | M | F | | | |
| Dhenkanal | Soil test campaigns | 2 | 2 | 30 | 12 | 15 | 3 | 0 | 0 | - | Importance of soil testing | - |
| Dhenkanal | Farm Science Club conveners meet | 4 | 2 | 42 | - | 8 | 0 | 0 | 0 | - | - | - |
| Dhenkanal | Self Help Group conveners meetings | 6 | 2 | 42 | 5 | 10 | 3 | 0 | 0 | - | - | - |
| Dhenkanal | Mahila Mandals conveners meetings | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - |
| Dhenkanal | Celebration of important days | 0 | 2 | 0 | 50 | 20 | 30 | 0 | 0 | - | - | - |

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

7.1 KVK Newsletters

| KVK Name | Date of start | Periodicity | Number of copies printed | Number of copies distributed |
|-----------|---------------|-------------|--------------------------|------------------------------|
| Dhenkanal | March 2008 | Half yearly | 500 | 500 |

7.2 Literature developed/published

| KVK Name | Date of start | Periodicity | Number of copies printed | Number of copies distributed |
|-----------|----------------|---|--------------------------|------------------------------|
| KVK Name | Type | Title | Author's name | Number of copies |
| Dhenkanal | Research paper | Nitrogen release characteristics of controlled release Nitrogen fertilizers & their effect on yield of rice in alluvial & | Kabat, B ; & Panda, D. | - |

| | | | | |
|-----------|--------------------|---|---|--|
| | | laterite soil – JISSS :58(2)p154-160 | (2010) | |
| Dhenkanal | Technical reports | Action Plan – October 2010-September 2011 Annual Report – October 2009-September 2010 Half yearly Report – October 2010-March 2011 | | |
| Dhenkanal | Popular articles | Paper on Epidemiology of Gastric Cancer in Hesi Bulletin. | Pati, I. P. ; Devi, P. & Pal, S. | |
| Dhenkanal | | Role of potash in potato Krusak Sambad Dec 2009 | B kabat | |
| Dhenkanal | Leaflets / folders | 1. IPM in rice (Oriya) 2. Paddy straw Mushroom cultivation round the year (Oriya) 3. Early shoot borer management in sugarcane (Oriya) 4. Value added products from mango (Oriya) 5. Scientific cultivation of Acacia mangium (Oriya) 6. Vermicomposting (Oriya) 7. SRI method of rice cultivation (Oriya) 8. Cultivation of leafy vegetables (Oriya) 9. Improved method of Arhar cultivation (Oriya) 10. Kusumi lac cultivation (Oriya) 11. Scientific mango cultivation 12. Cultivation of cash crop, Onion & Potato (Oriya) | B K Routray S Pal B K Routray S. Pal T. L. Mohanty B Kabat B Kabat B R Patnaik B R Patnaik T. L. Mohanty S Kar S Kar | 250 250 250 250 250 250 250 250 250 250 250 250 |

7.3 Details of Electronic Media Produced

| KVK Name | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number |
|-----------|---|--------------------------|--------|
| Dhenkanal | CD | World Food Day | 1 |
| Dhenkanal | CD | Women in Agriculture Day | 1 |
| Dhenkanal | CD | Animal Health Camp | 1 |
| Dhenkanal | CD | Field day on groundnut | 1 |

8. Production and supply of Technological products

8.1 SEED production

| KVK Name | Major group/class | Crop | Variety | Type of produce (for Seed produced type hear SD ; For Planting Material type here PM) | Quantity | Unit for quantity of produces (qtl for SD and Nos for PM) | Value (Rs.) | Provided to No. of Farmers |
|-----------|-------------------|-------------------|---------------|--|----------|---|-------------|-------------------------------|
| Dhenkanal | Cereals | Paddy | MTU 7029(F) | SD | 128.0 | Qtl | 289140 | To be sold to OSSC |
| Dhenkanal | Pulses | | | | 0 | | 0 | 0 |
| Dhenkanal | Oilseeds | | | | 0 | | 0 | 0 |
| Dhenkanal | Fibers | | | | 0 | | 0 | 0 |
| Dhenkanal | Spices | | | | 0 | | 0 | 0 |
| Dhenkanal | Plantation crops | | | | 0 | | 0 | 0 |
| Dhenkanal | Floriculture | Gladiolus | | PM | 1000 | Nos | 1500 | 10 |
| Dhenkanal | Forest species | Teak | | | 1650 | | 9900 | 25 |
| | | A mangium | | | 1060 | | 5300 | 10 |
| | | Bamboo | | | 150 | | 1500 | 15 |
| | | Inga dulcis | | | 4000 | | 20000 | 10 |
| | | Eucalyptus hybrid | | | 2500 | | 8750 | 5 |
| Dhenkanal | Fruits | | | | 0 | | 0 | 0 |
| Dhenkanal | Ornamental crops | | | | 0 | | 0 | 0 |
| Dhenkanal | Vegetables | Papaya | Red lady | PM | 358 | | 4296 | 20 |
| | | Tomato | Utkal pragyan | PM | 4500 | Nos | 1350 | 15 |
| | | Drumstick | PKM-1 | PM | 186 | Nos | 930 | 10 |
| | | Cabbage | Globemaster | PM | 5000 | Nos | 2500 | 5 |
| | | Elephant foot yam | Gajendra | SD | 5.1 | SD | 5100 | 5 |
| Dhenkanal | Others | | | | | | | |

8.2 Planting Material production

| KVK Name | Major group/class | Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|-----------|-------------------|---------------------|-------------------|--------------------|--------------|-----------------------|--------------------|------|-------------------|-----------------|------------|
| | | | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| Dhenkanal | Cereals | Paddy | 1.07.09 | 31.12.09 | 6 | MTU7039 | Foundation seed | 183 | 168000 | 289140 | To be sold |
| Dhenkanal | Cereals | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Pulses | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Pulses | | | | 0 | | | 0 | 0 | 0 | |

| KVK Name | Major group/class | Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|-----------|---------------------------|------------------|----------------|------------------|-----------|-----------------------|-----------------|------|----------------|--------------|------------------------------|
| | | | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| Dhenkanal | Cereals | Paddy | 1.07.09 | 31.12.09 | 6 | MTU7039 | Foundation seed | 183 | 168000 | 289140 | To be sold |
| Dhenkanal | Cereals | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Pulses | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Pulses | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Pulses | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Oilseeds | Sesamum | 18.07.2009 | 30.11.09 | 1 | Amrit | TL | 1.5 | 4000 | 1440 | Loss due to water stagnation |
| Dhenkanal | Oilseeds | | | | | | | | | | |
| Dhenkanal | Fibers | | | | | | | | | | |
| Dhenkanal | Spices & Plantation crops | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Floriculture | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Fruits | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Vegetables | | | | 0 | | | 0 | 0 | 0 | |
| Dhenkanal | Others (specify) | Mushroom | - | July – Feb 09 | | Paddy straw | Raw | 71kg | 2750 | 3550 | |
| Dhenkanal | | Honey | - | Through out year | 5 boxes | <i>A indica</i> | - | 6kg | 0 | 900 | |

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

| KVK Name | Name of the Product | Qty | Amount (Rs.) | | Remarks |
|-----------|---------------------|---------|----------------|--------------|---------|
| | | | Cost of inputs | Gross income | |
| Dhenkanal | Vermicompost | 1000 kg | 3265 | 4375 | - |
| | | | | | |
| | | | | | |

8.4 Livestock and fisheries production

| KVK Name | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
|-----------|--------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|
| | | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | |
| Dhenkanal | Broiler | Banaraja | Meat | 48kg | 2250 | 2400 | - |

9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : YES/NO, If yes, then

Year of establishment : -2005

9.1 Details of soil & water samples analyzed so far :

| KVK Name | Details | No. of Samples | No. of Farmers | No. of Villages | Amount realized |
|-----------|--------------|----------------|----------------|-----------------|-----------------|
| Dhenkanal | Soil sample | 776 | 581 | 42 | 4890 |
| Dhenkanal | Water sample | 20 | 19 | 10 | - |
| | Total | 796 | 600 | 52 | 4890 |

10. Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

| Name of KVK | Date | Title of the training course | Client (PF/RV/EF) | No. of Courses | No. of Participants including SC/ST | | | No. of SC/STParticipants | | |
|-------------|------|------------------------------|-------------------|----------------|-------------------------------------|--------|-------|--------------------------|--------|-------|
| | | | | | Male | Female | Total | Male | Female | Total |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

11. Utilization of Farmers Hostel facilities

Accommodation available (No. of beds) :

| KVK Name | Months | Year | Title of the training course | Duration of training | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|-----------|--------|------|--|----------------------|------------------------|----------------------------|--------------------------------|
| Dhenkanal | Oct | 2009 | Training of panipanchayat office bearers | 3 | 13 | 39 | |
| Dhenkanal | Jan | 2010 | Training of panipanchayat office bearers | 3 | 4 | 12 | |

12. Utilization of Staff Quarters facilities

| KVK Name | Year of construction | Year of allotment | No. of quarters occupied | No. of quarters vacant | Reasons for vacant quarters, if any |
|-----------|----------------------|-------------------|--------------------------|------------------------|-------------------------------------|
| Dhenkanal | 2010 | 2011 | 5 | 1 | PC Quarters is vacant |

13. Details of SAC Meeting

| KVK Name | Date of SAC meeting | No. of SAC members attended | Major recommendations |
|-----------|---------------------|-----------------------------|--|
| Dhenkanal | 16.07.2010 | 50 | <ol style="list-style-type: none"> 1. Emphasis on organic honey production as demonstration unit in KVK campus as per advice given by Dean, Extension Education. 2. Awareness check YMV disease of Okra by changing the planting time through training programme 3. Strengthening backyard poultry units through SHGs and organization of Animal Health Camp in adopted villages with help of Animal Husbandry Deptt. and KVK. 4. Emphasis on pond based farming system, Rearing of Coloured fish in KVK demo units, integration of fishery with livestock enterprise for better income generation as per suggestion given by DEE. 5. As per his suggestion emphasis on mango, banana and off-season vegetable cultivation through FLD, OFT and Training programme with introduction of newly improved varieties and development of horticulture orchard at patrabhaga. 6. Soil health card to the farmers who have tested their soil sample 7. Involving WSHGs in Home Science activities of KVK like mushroom production ,value added products from mushroom ,spawn unit development etc through training & FLDs . 8. Emphasis on development of Teak and Acacia based agro-forestry in adopted villages as well as more work on preparation of Bamboo planting materials and leaf plate preparation from Sal leaves. 9. Popularisation of Lac and Tassar cultivation 10. Farm Science Club to be formed with financial support from NABARD. 11. FLD and Training Programme to be conducted on Vermicompost, SRI method and quality planting material production as suggested by PD, DRDA, Dhenkanal. 12. Linkage with ATMA and other NGOs for betterment of the adopted villages. |

14. Status of Kisan Mobile Advisory (KVK-KMA)

| KVK Name | No. of messages sent | No. of beneficiary | | Major recommendations |
|-----------|----------------------|--------------------|------------|-----------------------|
| | | Farmers | Ext. Pers. | |
| Dhenkanal | 15 | 60 | 6 | Improved varieties |

15. Status of Convergence with various agricultural schemes (Central & State sponsored)

| KVK Name | Name of scheme | Name of Agency (Central/state) | Funds received (Rs.) | Activities organized | Operational Area | Remarks |
|-----------|-----------------------|--------------------------------|----------------------|----------------------|-----------------------|---------|
| Dhenkanal | ATMA | | 1,00,000 | 10 | | |
| | MNREGA | | | | | |
| | NHM | | | | | |
| | RKVY | | 95000 | 2 | Oil seed crop (10 ha) | |
| | DRDA | | | | | |
| | Zila Panchyat | | | | | |
| | Seed village | | | | | |
| | NAIP | | | | | |
| | Climate Change | | | | | |
| | Others (Plz. Specify) | | | | | |

16. Status of Revolving Funds (Rs.)

| KVK Name | Account No. | Opening balance (Rs.) | Closing balance (Rs.) | Current status (Rs.) |
|-----------|-------------|-----------------------|-----------------------|----------------------|
| Dhenkanal | 30306531704 | 5955 | 35411 | |

17. Awards & Recognitions

| KVK Name | Name of award /awardee | Type of award (Ind./Group/Inst./Farmer) | Awarding Organizations | Amount received |
|----------|------------------------|---|------------------------|-----------------|
| | | | | |

18. Case study and Success Story – Two best only in the following format

| | |
|------------------|--|
| Name of the KVK | Dhenkanal |
| TITLE | Cultivation of bitter guard var. Pusadomousomi |
| Introduction | Sri Chaitanya Baskey At- Majhisahi, po- Mahisapat, Dhenkanal |
| KVK intervention | Use of high yielding variety, use of ethereal flowering hormone and recommended dose of fertilizer as per soil test report |
| Output | 125 q/ha |
| Outcome | Bigger fruit size average of 120gm/fruit |
| Impact | The whole cultivation and production activity was covered by E-TV media and large no. of farmers are interested for seed production of bitter gouard |

19. Details of KVK Agro-technological Park

| Name of KVK | Name of Component of Park | Detail Information (If established) |
|-------------|---------------------------|-------------------------------------|
| | Crop Cafeteria | Not established |
| | Technology Desk | Not established |
| | Visitors Gallery | Not established |
| | Technology Exhibition | Not established |
| | Technology Gate-Valve | Not established |

20. Important visitors to KVK

| Name of KVK | Name of Visitor | Date of Visit | Remarks |
|-------------|--|---------------|--------------------------------------|
| Dhenkanal | T Baladrhoti, Coordinator, East India Bangladesh & Srilanka, IPI,Switzerland | 8.09.2010 | To attend Farmers training on Potash |
| Dhenkanal | Prof DP Ray, Vice Chancellor, OUAT | 07.11.2010 | To inaugurate Staff quarters |
| Dhenkanal | Sri U P Singh(IAS), Principal Secy Agriculture | 03.01.2011 | Visit to KVK |
| Dhenkanal | Dr Prem Chand, Scientist, ZPD, Zone VII, Jabalpur | 2.02.2011 | Visit to KVK |

21. Status of KVK Website: **Available/Not Available**

Not Available

22. E-CONNECTIVITY

| Name of KVK | Number and Date of Lecture delivered from KVK Hub | | | | No of lectures organized by KVK | Brief achievements | Remarks |
|-------------|---|----------------------|------------------------------|----------------------------|---------------------------------|--------------------|---------|
| | Date | No of Staff attended | No of call received from Hub | No of Call made Hub by KVK | | | |
| | 21/4/2010 | 9 | | | | | |
| | 28/5/2010 | 7 | | | | | |
| | 6/6/2010 | 7 | | | | | |
| | 17/6/2010 | 5 | | | | | |
| | 21/6/2010 | 6 | | | | | |
| | 22/6/2010 | 6 | | | | | |
| | 29/6/2010 | 5 | | | | | |
| | 7/7/2010 | 6 | | | | | |
| | 14/7/2010 | 7 | | | | | |
| | 19/7/2010 | 6 | | | | | |
| | 26/7/2010 | 6 | | | | | |
| | 30/7/2010 31/7/2010 | 5 | | | | | |
| | 17/8/11 | 9 | | | | | |
| | 17/09/10 | 7 | | | | | |
| | 27/01/11 | 7 | | | | | |
| | 22/02/11 | 5 | | | | | |
| | 25/02/11 | 6 | | | | | |

| | | | | | | | |
|--|----------|---|--|--|--|--|--|
| | 1/01/11 | 6 | | | | | |
| | 4/03/11 | 5 | | | | | |
| | 8/03/11 | 6 | | | | | |
| | 11/03/11 | 7 | | | | | |
| | 15/03/11 | 6 | | | | | |
| | 18/03/11 | 6 | | | | | |
| | 22/03/11 | 5 | | | | | |
| | 25/03/11 | 9 | | | | | |
| | 31/03/11 | 7 | | | | | |

23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

| Name of KVK | Types of Activities | No. of Activities | Number of Participants | Related crop/livestock technology |
|-------------|---|-------------------|------------------------|-----------------------------------|
| Dhenkanal | Gosthies | 1 | 25 | Sunflower |
| Dhenkanal | Lectures organized | 5 | 100 | Multidiscipline |
| Dhenkanal | Exhibition | 1 | 200 | |
| Dhenkanal | Film show | 4 | 100 | |
| Dhenkanal | Fair | 1 | 100 | |
| Dhenkanal | Farm Visit | 2 | 6 | |
| Dhenkanal | Diagnostic Practical's | 2 | 20 | |
| Dhenkanal | Distribution of Literature (No.) | 5 | 100 | |
| Dhenkanal | Distribution of Seed (q) | | | |
| Dhenkanal | Distribution of Planting materials (No.) | | | |
| Dhenkanal | Bio Product distribution (Kg) | | | |
| Dhenkanal | Bio Fertilizers (q) | | | |
| Dhenkanal | Distribution of fingerlings (No) | | | |
| Dhenkanal | Distribution of Livestock specimen (No.) | | | |
| Dhenkanal | Total number of farmers visited the technology week | 7 | 200 | |

24. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

| Name of KVK | Crops/cultivars | Area (ha) | Number of beneficiaries |
|-------------|-----------------|-----------|-------------------------|
| Dhenkanal | Paddy | 3.0 | 15 |
| Dhenkanal | Sunflowers | 6.0 | 24 |
| Dhenkanal | | | |

Major area coverage under alternate crops/varieties

| Name of KVK | Crops | Area (ha) | Number of beneficiaries |
|-------------|-----------------|-------------|-------------------------|
| Dhenkanal | Oilseeds | 6.0 | 24 |
| Dhenkanal | Pulses | 5.0 | 14 |
| Dhenkanal | Cereals | 3.0 | 15 |
| Dhenkanal | Vegetable crops | 3.0 | 30 |
| Dhenkanal | Tuber crops | 0.5 | 10 |
| Dhenkanal | Fruits | 1.0 | 10 |
| Dhenkanal | Spices | | |
| Dhenkanal | Cotton | | |
| Dhenkanal | Total | 18.5 | 108 |

Farmers-scientists interaction on livestock management

| Name of KVK | Livestock components | Number of interactions | No. of participants |
|-------------|----------------------------|------------------------|---------------------|
| Dhenkanal | Dairy Management | 5 | 125 |
| Dhenkanal | Disease management | 1 | 50 |
| Dhenkanal | Feed and fodder technology | 1 | 25 |
| Dhenkanal | Poultry management | 1 | 25 |

Animal health camps organized

| Name of KVK | Number of camps | No. of animals | No. of farmers |
|-------------|-----------------|----------------|----------------|
| Dhenkanal | 1 | 150 | 62 |
| Dhenkanal | | | |
| Dhenkanal | | | |

Seed distribution in drought hit states

| Name of KVK | Crops | Quantity (qtl) | Coverage of area (ha) | Number of farmers |
|-------------|-------|----------------|-----------------------|-------------------|
| Dhenkanal | Paddy | 0.8 | 1.4 | 15 |
| Dhenkanal | | | | |

Seedlings and Saplings distributed

| Name of KVK | Crops | Quantity (No.s) | Coverage of area (ha) | Number of farmers |
|-------------|-------|-----------------|-----------------------|-------------------|
|-------------|-------|-----------------|-----------------------|-------------------|

| Seedlings | | | | |
|-----------|-------------------|------|-----|----|
| Dhenkanal | Teak | 1650 | 3.0 | 25 |
| Dhenkanal | A mangium | 1060 | 2.0 | 20 |
| Dhenkanal | Bamboo | 150 | 1.0 | 15 |
| Dhenkanal | Inga dulcis | 4000 | 4.0 | 20 |
| Dhenkanal | Eucalyptus hybrid | 2500 | 2.0 | 05 |

Bio-control Agents

| Name of KVK | Bio-control Agents | Quantity (q) | Coverage of Area (ha) | No. of farmers |
|-------------|--------------------|--------------|-----------------------|----------------|
| | | | | |

(e) Bio-Fertilizer

| Name of KVK | Bio-Fertilizer | Quantity (kg) | Coverage of Area (ha) | No. of farmers |
|-------------|----------------|---------------|-----------------------|----------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

(f) Vermis Produced

| Name of KVK | Vermis Produced | Quantity (q) | Coverage of Area (ha) | No. of Farmers |
|-------------|-----------------|--------------|-----------------------|----------------|
| Dhenkanal | Vermicompost | 11.0 | 5 ha | 5 |
| | | | | |

(g) Large scale adoption of resource conservation technologies

| Name of KVK | Crops/cultivars and gist of resource conservation technologies introduced | Area (ha) | Number of farmers |
|-------------|---|-----------|-------------------|
| | | | |
| | | | |

(h) Awareness campaign

| Name of KVK | Meetings | | Gosthies | | Field days | | Farmers fair | | Exhibition | | Film show | |
|-------------|----------|----------------|----------|----------------|------------|----------------|--------------|----------------|------------|----------------|-----------|----------------|
| | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers |
| Dhenkanal | 5 | 125 | 2 | 50 | 4 | 200 | 1 | 100 | 1 | 200 | 4 | 100 |
| | | | | | | | | | | | | |

25. **Status of KVK Website:** Already having website/under construction

If available, please provide the address of website:

Under construction

26. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy- specially for all OFT along with the problem) –

