ANNUAL REPORT - 2011-12

(APRIL: 2011 - MARCH: 2012)



KRISHI VIGYAN KENDRA BOLANGIR



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Contents

| Sl. No. | Particular | Page No |
|---------|--|---------|
| 1 | Summary of achievements during the reporting period | 1 |
| 2 | General Information | 2 |
| 3 | On Farm Testing | 7 |
| 4 | Achievements of Frontline Demonstrations | 12 |
| 5 | Documentation of the need assessment conducted by the KVK for the training programme | 21 |
| 6 | Training programmes | 23 |
| 7 | Extension Activities | 30 |
| 8 | Literature Developed/Published (with full title, author & reference) | 32 |
| 9 | Production and supply of Technological products | 33 |
| 10 | Activities of Soil and Water Testing Laboratory | 34 |
| 11 | Rainwater Harvesting | 34 |
| 12 | Utilization of Farmer Hostel facilities | 34 |
| 13 | Utilization of Staff Quarter facilities | 35 |
| 14 | Details of SAC Meeting | 35 |
| 15 | Status of Kisan Mobile Advisory | 36 |
| 16. | Status of Convergence with agricultural schemes | 36 |
| 17. | Status of Revolving Funds | 36 |
| 18. | Awards & Recognition | 37 |
| 19. | Case study and Success story | 38 |
| 20. | Details of KVK Agro-technological Park | 39 |
| 21. | Important visitors to KVK | 39 |
| 22. | Status of KVK Website | 39 |
| 23. | Status of E-connectivity | 39 |
| 24. | Details of Technological Week Celebration | 40 |
| 25. | Interventions on Drought Mitigation | 40 |
| 26. | Status of KVK Website | 42 |
| 27. | Action Photographs | 43 |

REPORTING PERIOD – April 2011 to March, 2012

Summary of achievements during the reporting period

| KVK | Activity | | Target | | nievement | |
|----------|---|-------------|-----------------|-----------|-----------------|--------------------------|
| Name | · | Number | No. of farmers/ | Number of | No. of farmers/ | Total value of resource |
| | | of activity | beneficiaries | activity | beneficiaries | generated/Fund received |
| | | · · | | | | from diff. sources (Rs.) |
| Bolangir | OFTs | 18 | 98 | 15 | 82 | |
| Bolangir | FLDs – Oilseeds (activity in ha) | 5 | 10 | 5 | 10 | |
| Bolangir | FLDs – Pulses (activity in ha) | 5 | 10 | 5 | 10 | |
| Bolangir | FLDs – Cotton (activity in ha) | - | - | - | - | |
| Bolangir | FLDs – Other than Oilseed and pulse crops(activity in ha) | 12 | 120 | 9 | 90 | |
| Bolangir | FLDs – Other than Crops (activity in no. of Unit/Enterprise) | 6 | 30 | 4 | 17 | |
| Bolangir | Training-Farmers and farm women | 60 | 1500 | 56 | 1400 | |
| Bolangir | Training-Rural youths | 18 | 360 | 13 | 220 | |
| Bolangir | Training- Extension functionaries | 7 | 70 | 5 | 50 | |
| Bolangir | Extension Activities | 505 | 1250 | 560 | 1400 | |
| Bolangir | Seed Production (Number of activity as seeds in quintal) | | | 3.1 | | |
| Bolangir | Planting material ((Number of activity as quantity of planting material in quintal) | | | - | - | |
| Bolangir | Seedling Production (Number of activity as number of seedlings in numbers) | | | 5050 | 60 | |
| Bolangir | Sapling Production (Number of activity as number of sapling in numbers) | | | | | |
| Bolangir | Other Bio- products | | | | | |
| Bolangir | Live stock products | | | | | |
| Bolangir | SAC Meeting (Date & no. of core/official members) 28.02.12/30 | 2 | 50 | 1 | 30 | |
| Bolangir | Newsletters (no.) | 4 | mass | 4 | mass | |
| Bolangir | Publication (Research papers, popular article) | 12 | mass | 20 | mass | |
| Bolangir | Convergence programmes / Sponsored programmes | - | - | 1 | 50 | 63,000 |
| Bolangir | KVK-ATMA Linkage programme (Number of activities) | - | - | 10 | 90 | |
| Bolangir | Outreach of KVK in the District (No. of blocks, no. of | | | 9, 55 | | |
| | villages) | | | | | |
| Bolangir | Soil sample tested | | | 36 | 36 | |
| Bolangir | Water sample tested | | | - | - | |
| Bolangir | KMA (No. of messages & beneficiaries) | | | 15 | 1400 | |

1. GENERAL INFORMATION

1.1. Staff Position (as on date)

| 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) |
|--------------|-----------------------------|-----------------------------------|---------------------|--------------------------|---|-----------------------|--------------------------|-----------------|-------------------------|--|
| Bolangir | Programme Coordinator | Dr. Prasanna Kumar Samant | Soil Science | Ph.D. | Soil Science | 15600-8000- 39000 | 15600- 8000- 39000 | 04.08.2011 | Regular | Others |
| Bolangir | Subject Matter Specialist1 | Sri Kamalakanta Behera | Agril. Extension | M.Sc(A g) | Agril. Extension | 15600-6000- 39000 | 16250+ 6000 | 19.04.2010 | Regular | Others |
| Bolangir | Subject Matter Specialist2 | Mrs. Dipsika Paramjita | Ag. Engineering | M.Tech (Ag.Eng g.) | Soil & water conservation Engineering | 15600-6000- 39000 | 16250+ 6000 | 04.06.2010 | Regular | Others |
| Bolangir | Subject Matter Specialist3 | Smt Sasmita Purohit | Home Sc | M.Sc (H.Sc.) | Food & Nutrition | 15600-6000- 39000 | 19050+ 6000 | 11.06.2010 | Regular | Others |
| Bolangir | Subject Matter Specialist4 | Smt Swagatika Srichandan | Horticulture | M.Sc (Hort) | Vegetable | 15600-6000- 39000 | 16250+ 6000 | 19-08-2011 | Regular | Others |
| Bolangir | Subject Matter Specialist5 | Sri Ashis Kumar Das | Plant Protection | M.Sc(A | Entomology | 15600-6000- 39000 | 19050+ 6000 | 26-12-2011 | Regular | Others |
| Bolangir | Subject Matter Specialist6 | Vacant | | | | | | | | |
| Bolangir | Programme Assistant | Vacant | | | | | | | | |
| Bolangir | Farm Manager | Vacant | | | | | | | | |
| Bolangir | Computer Programmer | Sri Rabi Narayan Satapathy | | MCA | | 9300-4200- 34000/- | 13060- 4200 | 21.11.2009 | Regular | Others |
| Bolangir | Accountant / superintendent | Sri Bholanath Mishra | | IA | | 9300-4200- 34000/- | 14170 +4200 | 01.08.11 | Regular | Other |
| Bolangir | Stenographer | Vacant | | | | | | | | |
| Bolangir | Driver | Sri Srahanshu Sekhar Pattanaik | | | | 5200-1900- 2400 | 5420 | 17.08.2010 | Regular | Others |
| Bolangir | Driver | Sri Upendra Mishra | | | | 5200-1900- 2400 | 5420 | 01.04.2011 | Regular | Others |
| Bolangir | Supporting staff | Sri Sagar Chhatria | | | | 4440-1300- 7440 | 4620 | 21.11.2009 | Regular | SC |
| Bolangir | Supporting staff | Vacant | | | | | | | | |

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

Bolangir district lies between 20⁰ 9' N to 21⁰ 5' N latitude and 82⁰ 39' E to 85⁰ 15' E longitude under the west central table land (WCTL) zone. The district spread over 6569 sq. km. accounting for 38.21% of the total geographical area (17,190 sq.km.) of the WCTL zone. It has three physiographic units viz. Plain land, undulating plain land and undulating sub-mountainous tract. The district is surrounded by Sonepur, Bargarh, Nuapada, Kalahandi and Boudh district. The main river of the district is Tel. Besides Tel, there are other rivers like Sonegarh, Lanth, Ong, Suktel, Under and Rahul. The district consists of three Subdivisions, 14 Blocks, 285 Grampanchayats, 1794 villages and 4 local bodies.

| 01 | Agro-climatic zone | West central table | land zone |
|----|-------------------------|--------------------|--|
| 01 | Geographical area in ha | | 6,57,500 |
| 02 | Location | Longitude | 82 ⁰ 39' E to 85 ⁰ 15' E |
| | | Latitude | 20 ⁰ 9' N to 21 ⁰ 5' N |
| 03 | Forest area (ha) | | 154385 |
| 04 | Cultivated area (ha) | Highland | 1,89,325 |
| | | Medium land | 70,155 |
| | | Low | 85,995 |
| | | Total | 3,45,475 |
| 05 | Irrigated area (ha) | Kharif | 76,770 |
| | | Rabi | 30,100 |
| 06 | No. of Sub-division | | 03 |
| 07 | No. of Blocks | | 14 |
| 08 | No. of G.P. | | 285 |
| 09 | No. of D.A.O. circle | | 03 |
| 10 | No. of A.A.O. circle | | 28 |
| 11 | No. of PACS | | 160 |

| 12 | No. seeds sale centre | Govt. | 28 |
|-----|-------------------------|--------|-----------------------|
| 13 | Population as per 2001 | | 13,37,194 |
| | census | | |
| | | Male | 6,73,985 |
| | | Female | 6,63,209 |
| 14 | Sex ratio | | 1000:984 |
| 15 | SC Population | | 226300 (17%) |
| 16 | ST population | | 275822 (21%) |
| 17 | Literacy rate | | 55.70% |
| 18 | Average holding size in | | 1.43 |
| | ha | | |
| 19. | Rain fall | | 1283mm |
| 20. | Soil type | | Mixed Red & black, |
| | | | Red, Laterite & Mixed |
| | | | red and yellow |

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) |
|----------|--------------|------------------|------------|----------------------|------------|--|
| Bolangir | Fatakara | 2009 | Puintala | 15 | 1180 | 473 |
| Bolangir | Lepta | 2009 | Puintala | 18 | 783 | 297 |
| Bolangir | Larkipalli | 2010 | Bolangir | 02 | 649 | 184 |
| Bolangir | Khujenpali | 2010 | Bolangir | 09 | 986 | 343 |
| Bolangir | Kareldhua | 2010` | Saintala | 28 | 592 | 278 |

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

| KVK Name | THRUST AREA |
|----------|--|
| Bolangir | Crop diversification |
| Bolangir | Reclamation of degraded land |
| Bolangir | Integrated Nutrient Management practices |
| Bolangir | Integrated Disease and Pest Management practices |
| Bolangir | Quality seeds and seedling production |
| Bolangir | Income generating activities for rural women/ school dropouts |
| Bolangir | Value addition to seasonal vegetables |
| Bolangir | Integrated farming system |
| Bolangir | Proper health management of domestic animals & birds |
| Bolangir | Marketing and production strategies |
| Bolangir | Recycling of farm wastes for vermicompost |
| Bolangir | Farm mechanization |
| Bolangir | Off season vegetable cultivation |
| Bolangir | Promotional of nutritional garden |
| Bolangir | Introduction of suitable varieties with improved packages of practices |
| Bolangir | Effective use of family labour through need based livelihood option |

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

| KVK Name | Problem identified | Methods of problem identification |
|----------|---|---|
| Bolangir | Severe soil erosion in sloppy uplands | Through PRA tools and Discussion with the group of farmer, farm women and rural youth |
| Bolangir | Soil acidity - Poor knowledge about soil testing and soil health management | Through District soil map and discuss with line department officers (Soil Chemist) and sample soil testing |
| Bolangir | Non availability of waste land management techniques | Group discussion, PRA in sample villages |
| Bolangir | Low and imbalance use of manures and fertilizers in all crops | Farmers meetings, harvest report, sample testing of crop & discuss with line department officers |
| Bolangir | Severe crop weed competition in Kharif upland crops | Discuss with farmers, crop observation, sample study and PRA |
| Bolangir | Non availability of enough inputs (seed, fertilizer, pesticides) in timely | Discuss with farmers and fertilizer dealers, discuss with district administration and JQCI of agriculture department |
| Bolangir | Lack of storage facility for fruits and vegetables | Sample study, discuss with district civil officer, discuss with fruit & vegetable merchant, discuss with farmers and horticulture officer |
| Bolangir | .Poor nutrient status and low water holding capacity of soil | Discuss with soil chemist & soil scientists of Zonal Research Station & ICAR institute and sample testing of soils of different villages |
| Bolangir | .Lack of irrigation facility during Rabi/Summer except Hirakud command area | Discuss with farmers, discuss with irrigation department & district civil administration and personal observation during field visit. |
| Bolangir | .Low availability and adoption of dryland farming technique | Through PRA tools and Discussion with the group of farmer, farm women and rural youth |
| Bolangir | .Inadequate knowledge about post harvest technology | Discuss with village leaders and old farmers, discuss with line department, sample observation, personal observation during field visit |

2. On Farm Testing

2.1 Information about OFT

| | | | Categor y of | | Crop/ enterpris | Farming Situations | | | Results (with | parameter) | Net Retu | rns (Rs./ha) | |
|-------------|-----------------|--|--|------------------------|--------------------|--------------------------------------|--|---------------|---|---------------------------------|----------|--------------|---|
| KVK name | Year/ season | Problem diagnose | technol ogy (Assess ment/ Refine ment) | Thematic Area | e | | Title of OFT | No. of trials | Farmer practice T1 | Rec. Tech T2 | T1 | Т2 | Recommenda tions |
| Bolangir | 2011 Kharif | Low yield of paddy due to ruling variety MTU-7029 | Assess ment | Varietal evaluation | Crop | Irrigated upland | Assessment of hybrid paddy var: JKRH-401 | 5 | Yield- 48 q/ha No.of tillers/ hill - 24 | 72 39 | 22,400 | 41,800 | May be adopted with due care wrt fert. & Pest management |
| Bolangir | 2011 Kharif | Low yield of direct seeded upland paddy due to severe weed infestation | Assess ment | Weed manageme nt | Crop | Rainfed upland | Assessment of pyrazosulfuron ethyl in direct seeded upland paddy | 5 | Yield- 28.2q/ha Dry wt. of weed/ sq.mt- 126 gm | 35.7 35 | 10,560 | 14,560 | Weedicide application may be done to save cost & increase profit |
| Bolangir | 2011-12 Rabi | Low yield of Groundnut due to severe weed infestation in irrigated upland | Assess ment | Weed manageme nt | Crop | Irrigated upland | Assessment of weedicide Oxyfluorfen in groundnut | 5 | Yield- 18.2 q/ha Dry wt. of weed/ sq.mt- gm | 22.8 | 21,400 | 30,400 | Weedicide application may be done to save cost & increase profit |
| Bolangir | 2011-12 Rabi | Low yield of Greengram due to severe weed infestation in irrigated upland | Assess ment | Weed manageme nt | Crop | Irrigated upland | Assessment of Weedicide Imazethrepy in greengram | 5 | Yield- 5.8 q/ha Dry wt. of weed/ sq.mt- | 7.9 | 11,200 | 18,400 | Weedicide application may be done to save cost & increase profit |
| Bolangir | 2011 Kharif | Low yield due to local variety | Assess ment | Varietal evaluation | Crop | Sandyloam rainfed Mediumland | Assessment of YMV resistant improved Cowpea variety Utkal manic | 5 | Yield-121 q Pod size-20 cm | Yield-140q Pod size-30 cm | 69,300 | 83,300 | Utkal manik is moderately tolerant to YMV. |
| Bolangir | 2011-12 Rabi | Cracking of head due to Boron deficiency | Assess ment | INM | Crop | Sandy loam rainfed Medium land | Assessment of Boron in Cabbage | 7 | Yield-280 q | Yield-320 q | 1,02,20 | 1,37,570 | % of cracking decreased from 13% to 4%. |

| Bolangir | Summer 2011-12 | Low yield due to sprouting of Onion and less storage life | Assess ment | | Crop | Sandyloam rainfed Mediumland | Assessment of Maleic hydrazide in Onion | 5 | - | - | - | - | |
|----------|--------------------------|---|----------------|---|----------------|------------------------------------|--|---|--|---|--------|--------|--|
| Bolangir | 2011-12 Summer | Low yield due to more no. of male flowers | Assess ment | | Crop | Sandyloam rainfed Low land | Assessment of ethtlene in Pumpkin | 5 | Yield-203 q | Yield-276 q | 51,450 | 77,500 | Upto 2 mths there is more no. of female flowers. |
| Bolangir | 2011-12 Pre Summer | Low yield of Greengram due to moderate to severe infection powdery mildew | Assess men | Integrated disease manageme nt | Crop | Irrigated upland | Assessment of chemical management of powdery meldew in greengram | 5 | Yield- 6.2 q/ha No.of pods/plant- 17 Extent of damage-18.4% | Yield- 7.68 q/ha No.of pods/plant- 24.6 Extent of damage-9.0 % | 9,700 | 13,880 | Spraying of fungicide at 1st incidence of disease & then at 15 days interval |
| Bolangir | 2011/kharif | Low spread of OYM due to unavailability of spaddy straw | Assess | Income generation | Enterpris e | Rainfed | Assessment of cotton stalk as better substrate for OYM | 5 | 1.5kg/bed | 1 kg/bed | 4500 | 2400 | Cotton stalkwas found a better substrate for replacement of paddystraw |
| Bolangir | 2011/kharif | Less income from local variety | Assess | Income generation | Crop | Rainfed | Assessment of marigold, Var:Pusabasanti | 5 | 123.5 | 169.3 | 50600 | 85240 | A good income generating remunaration for farmwomen |
| Bolangir | 2011/kharif | Less income from local breed | Assess | Income generation | Enterpris e | Rainfed | Assessment of sirohibuck as small scale income generation enterprise | 2 | 25 kg body weight in 3years | 50 kg body weight in 3 years | 10000 | 5000 | Interested to adopt this variety for a good a good source of income. |
| Bolangir | 2011/kharif | More labour, much time and highest involvement in manual weeding | Assess ment | Location specific drudgery reduction techniques | Enterpris e | Rainfed | Assessment of wheel hoe weeder in line sowing vegetable for drudgery reduction of farm women | 3 | Working width -40mm, working depth:30 mm, Output: 4n of farm women5 m²/h | Working width - 210mm, working depth:20-30 mm, Output : 150 m ² /h | 17263 | 18833 | Use of wheel hoe weeder is recommende d for drudgery reduction |

| Bolang | ir 2011/Khari f | High labour intensive and cost involved in manual transplanting | Assess ment | Farm mechanizat ion | Enterpris e | Sandy loam Rainfed Medium land | Assessment of paddy drum seeder for sowing of pregerminated paddy seeds | 5 | Field capacity: 0.005 ha/hr labour requirement: 31 MD/ha | Field capacity: 0.12 ha/hr labour requirement: 1.04 MD/ha | 7190/- | 13800/- | Use of drum seeder is recommende d for solving labour and cost involved in manual transplanting |
|--------|--------------------|---|----------------|---------------------------|----------------|--------------------------------------|---|---|---|--|---------|---------|--|
| Bolang | ir 2011/kharif | High labour and cost involved in manual weeding& hoeing | Assess ment | Farm mechanizat ion | Enterpris e | clayloam Rainfed Upland | Assessment of power weeder in cotton crop | 5 | Field capacity: 0.0039 ha/hr labour requirement: 32 MD/ha | Field capacity: 0.13 ha/hr labour requirement: 0.96 MD/ha | 16160/- | 21890/- | Use of power weeder is a solution for labour and cost involvement in weeding of cotton crop |

2.2 Economic Performance

| KVK name | OFT Title | Parameters | | | Avera | Average Cost of cultivation (Rs/ha) | | | e Gross Retur | n (Rs/ha) | Averag | e Net Retur | rn (Rs/ha) | Benefit-Cost Ratio (Gross Return / Gross Cost) | | |
|-------------|---|--|--------------|---------|----------------------|--|--|-------------------------------------|----------------------|---|----------------------|-------------|---|--|-------------------------|--|
| | | Name and unit of Parameter | Demo | Check | FP (T ₁) | RP (T ₂) | Refine d Practic e, if any (T ₃) | FP (T ₁) | RP (T ₂) | Refined Practice , if any (T ₃) | FP (T ₁) | RP(T | Refined Practice , if any (T ₃) | FP (T ₁) | RP (T ₂) | Refined Practice, if any (T ₃) |
| Bolangir | Assessment of hybrid paddy var: JKRH- 401 | Tillers/hill, no.; 1000 seed wt,gm | 39 32 | 24 28.5 | 16,000 | 23,000 | | 38,400 | 64,800 | | 22,400 | 41,800 | | 2.4 | 2.81 | |
| Bolangir | Assessment of pyrazosulfuro n ethyl in direct seeded upland paddy | Weedbio- mass/sq.mt , gm | 35 | 126 | 12,000 | 14,400 | | 22,560 | 28,560 | | 10,560 | 14,160 | | 1.88 | 1.98 | |
| Bolangir | Assessment of weedicide Oxyfluorfen in groundnut | Weedbio mass/sq.mt , gm Pods/plant, no | 39.5 17.4 | 135 | 24,000 | 27,000 | | 69,160 | 86,640 | | 45,160 | 59,640 | | 2.88 | 3.20 | |
| Bolangir | Assessment of Weedicide Imazethrepy | Weedbio mass/ sq.mt, gm | 40 | 166 | 12,000 | 13,200 | | 23,200 | 31,600 | | 11,200 | 18,400 | | 1.93 | 2.39 | |

| | in greengram | | | | | | | | | | | | | | |
|----------|---|--|---|---|--------|--------|---|---------|----------|--------|--------------|---|------|------|--|
| Bolangir | Assessment of YMV resistant improved Cowpea variety Utkal manic | Yield-q/ha Pod size- cm Extent of damage (YMV), % | Yield- 140 q Pod size- 30cm 11 | Yield- 121 q Pod size- 20cm 23 | 27,500 | 28,700 | | 96,800 | 1,12,000 | 69,300 | 83,300 | | 3.5 | 3.9 | |
| Bolangir | Assessment of Boron in Cabbage | Yield-q/ha Head size, gm | Yield- 320 q 980 | Yield- 280 q 756 | 41,800 | 43,500 | | 1,40,00 | 1,60,000 | 98,200 | 1,16,50 0 | | 3.34 | 3.67 | |
| Bolangir | Assessment of Maleic hydrazide in Onion | Yield-q/ha Percentage of bolting | - | - | - | - | | - | - | - | - | | - | - | |
| Bolangir | Assessment of ethtlene in inducing female flower in Pumpkin | Yield-q/ha female flower/ plant, % | 276 q 85 | 203 q 42 | 29,750 | 32,900 | | 81,200 | 1,10,400 | 51,450 | 77,500 | | 2.7 | 3.3 | |
| Bolangir | | | | | | | | | | | | | | | |
| Bolangir | Assessment of cotton stalk as better substrate for OYM | Yield per bed/kg; Day to first flush, days | 1 20 | 1.5 16-17 | 1500 | 1100 | | 6000 | 3500 | 4500 | 2400 | | 4 | 3.18 | |
| Bolangir | Assessment of marigold, (Pusabasanti) | Yield (q/ha) flowers/ plant, No | 169.3 58 | 123.5 35 | 48200 | 50200 | | 98800 | 135440 | 50600 | 85240 | | 2.05 | 2.7 | |
| Bolangir | Assessment of sirohibuck in upgradation of offspring in goat | Average body weight | 50kg/ 3 yrs,10- 12 offsprin g/yr | 25kg/3 yr,6-7 offsprin g/yr | 4000 | 6000 | | 8000 | 36000 | 4000 | 30000 | | 2 | 6 | |
| Bolangir | Assessment of wheel hoe weeder in line sowing vegetable for drudgery reduction of farm women | Avg. cost of weeding (Rs/ha),lab our saving (no) | 1350/ha ,22 | 4500/ha, 33 | 17500 | 14,350 | | 34763 | 33183 | 17263 | 18833 | | 1.98 | 2.31 | |
| Bolangir | Assessment of paddy drum seeder for sowing of | Cost of operation, (Rs./ha Yield:q/ha | 270, 34.2 | 2380, 29.7 | 22510 | 20400 | - | 29700 | 34200 - | 7190 | 13800 | - | 1.32 | 1.67 | |

| | pregerminated paddy seeds | | | | | | | | | | | | | | | |
|----------|---|--|-----------------|-----------------|-------|-------|---|-------|-------|---|-------|-------|---|------|------|--|
| Bolangir | Assessment of power weeder in cotton crop | Cost of operation, (Rs./ha Yield:q/ha | 2250/-, 12.6 | 3920/-, 11.8 | 21600 | 18430 | - | 37760 | 40320 | - | 16160 | 21890 | 1 | 1.74 | 2.18 | |

2.3 Feedback from KVK to Research System

| Name of KVK | Feedback |
|-------------|---|
| Bolangir | Development of short duration hybrid paddy var. of 135-140 day |
| Bolangir | Development of technology to manage fungal infection in mushroom raised in cotton stalk |
| Bolangir | Development of Marigold variety with high flowering habit with longer duration of flower setting, easy to multiply with stem cutting |
| Bolangir | By application of Ethylene in pumpkin at 2-4 leaf stage the no. of female flowers increased drastically upto 2 mths ultimately resulting more fruit setting |
| Bolangir | Cowpea variety Utkal manik is moderately YMV tolerant |
| Bolangir | The power weeder may be developed to uproot the weeds close to plant roots, so that entire crop area can be weed free with the use of only weeder |
| Bolangir | The drum seeder may be refined so that seed dropping can be high |
| Bolangir | Wheel hoe weeder of adjustable/ rotating width may be developed |
| Bolangir | Farm women are getting good quality of offspring and this breed control in-breeding,infant mortality but availability of this breed is |
| | very scarce. |
| Bolangir | Steps to be taken to easily availability of this variety of seedling. |
| Bolangir | Cotton stalk should be boiled for 1 hr to maintained smoothness |

3. Achievements of Frontline Demonstrations

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

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

| | Crop/ | | | Details of popularization | Horizonta | l spread of technol | ogy |
|----------|------------|---------------|---------------------------------------|---|-----------|---------------------|---------|
| KVK Name | Enterprise | Thematic Area | Technology demonstrated | methods suggested to the | No. of | No. of | Area in |
| | | | | Extension system | villages | farmers | ha |
| Bolangir | Enterprise | Farm | Use of self propelled reaper for | Field day, extension functionaries, media | 10 | 105 | 60 |
| | | mechanization | harvesting the crop | coverage | | | |
| Bolangir | crop | ICM | High yielding Paddy var. Yogesh | Field day, extension functionaries, media | 7 | 50 | 40 |
| | | | ringii yiciding raddy var. rogesii | coverage | | | |
| Bolangir | Crop | ICM | Cultivation of tissue culture banana | Field day, extension functionaries, media | 24 | 60 | 15 |
| | | | Cultivation of tissue culture ballana | coverage | | | |
| Bolangir | Crop | ICM | Cultivation of Naveen var. of Bottle | Field day, extension functionaries, media | 40 | 80 | 08 |
| | | | gourd | coverage | | | |

3.2 Details of FLDs implemented

| | | Name of | | | Crop- Area | Name of | Result | s (q/ha) | | | No | o. of farm | ers | |
|----------|------------------------------|---------------------|--------------------|--|------------------------|--|--------|----------|-------------|----|----|------------|--------|-------|
| KVK Name | Thematic area | Crop/ Enterprise | Season and year | Technology demonstrated | (ha) / Entrep - No. | Variety/Tec hnology/En treprizes | Demons | Check | % change | SC | ST | OBC | Others | Total |
| Bolangir | Varietal evaluation | Tomato | Rabi 11-12 | Planting of Tomato variety Utkal raja at spacing of 75x50 cm | 1 ha | Utkal raja | 340 q | 277q | 23% | 2 | 1 | 7 | - | 10 |
| Bolangir | INM | Brinjal | Summer 2011-12 | Application of azotobacter @ 10kg/ha &V.C-100 kg | 1 ha | Azotobacter & vermicompos t | 310 q | 245 q | 26% | 1 | 1 | 5 | 3 | 10 |
| Bolangir | Varietal evaluation | Pointed gourd | Rabi 11-12 | Planting Swarna alaukik at spacing of 2mx1m | 1 ha | Swarna alaukik | - | - | - | - | - | - | | |
| Bolangir | | Water melon | Summer 2011-12 | Application of Nitro benzene @ 2 ml/l at 15 DAT once in every 25 days | 1 ha | Nitro benzene | 369 q | 275 q | 34% | 1 | 4 | 5 | - | 10 |
| Bolangir | Varietal substitutio n | Papaya | Rabi-2011-12 | Seedling treatment with bavistin @1.5gm/l lt of water,pit of 45*45*45cm,distance 1.2-1.8 mt. | 2ha | Coorg honey dew | | Awaited | | 1 | 1 | 3 | 0 | 5 |

| | | T | 1 | | 1 | | | | | | | | | |
|----------|---|-------------------------|--------------|---|----------|-------------------------|---------------|-------|-------|---|---|---|---|----|
| Bolangir | IDM | Potato | Rabi-2011-12 | Need based application of Metalaxyl+Mancozeb @ 2.5 gm/l & Carbendazim+ Mancozeb @ 1gm/l alternately at 10 days interval with DDVP @1ml/l & Acephate @2gm /l alternately at 10 days interval | 2 ha | Local | 160 | 136 | 17.64 | 5 | - | 2 | 1 | 8 |
| Bolangir | IDM | Cocumber | Rabi-2011-12 | Need based application of Metalaxyl+Mancozeb @ 2.5 gm/l & COC @ 3gm/l alternately at 10 days interval with Acetamiprid @1gm / 5 lit & Thiamethoxam@1gm / 5 lit alternately at 10 days interval | 1 ha | Trupti | 96.5 | 78 | 23.71 | - | - | - | 5 | 5 |
| Bolangir | IDM | Cowpea | Rabi-2011-12 | Need based application of Imidacloprid @ 0.4ml /1 & Triazophos @ 2ml /1 alternately at 10 days interval | 2 ha | Utkal Manik | 115.3 | 89.75 | 28.46 | 2 | - | 5 | 1 | 8 |
| Bolangir | Income generation activities for farm women | Paddy straw mushroom | Kharif-11 | Disinfect the paddy bundles in 100 lts of water with 50 ml of formaline and 8 gms of bavistin for 12 hrs,drained absorbing excess water,prepared the bed. | 200 beds | Volvarealla volvacea | 1.5 kg/bed | New | 100% | 4 | - | 6 | - | 10 |
| Bolangir | Location specific drudgery reduction | Sugarcane stripper | Kharif 11 | It has got a dimension of (350 mm X 70 mm) and works by separating and pushing the leaf sheaths away from stalk and detopping of lane after harvest | 7 | Sugarcane stripper | - | - | - | 3 | | 4 | 0 | 7 |

| Bolangir | Irrigation water manageme nt | Tissue culture banana | Kharif11 | Drip irrigation with emitters having discharge of 4 lit/hr fitted to each plant with a spacing of 7' between each laterals | Tissue culture Banana – 0.04ha | Drip irrigation | | | | | | 2 | | 2 |
|----------|---|--------------------------|--------------|--|--------------------------------------|------------------------|-----------------------------------|--------------------------|------|---|---|---|---|---|
| Bolangir | Income generation activities for farm women | Banaraja chicks | Kharif-11 | Feeding, rearing &vaccination practices | 100 chicks | Banaraja | 3.6 kg/body weight/ year | 1 kg body weight/year | 260- | - | - | 6 | - | 6 |
| Bolangir | Vermi- compostin g | Vermicompost | Rabi-2011-12 | Using of better substrate , ring preparation,harvesting technology, packaging | 2 unit | Eu drillus eugeniae | .9 qtl/yr | Nil | - | 1 | | 1 | | 2 |

3.3Economic Impact of FLD

| KVK | Name of Crop/ Enterprise | Technology | 1 | Parameters | | Cost of co | | Gross Retu | ırn (Rs/ha) | | Net Return s/ha) | Benefit-C (Gross l Gross | Return / |
|----------|-----------------------------|--|--|------------|-------|------------|--------|--------------|--------------|--------------|---------------------|--------------------------------|----------------|
| Name | | demonstrated | Name and unit of Parameter | Demo | Check | Demo | Check | Demo | Check | Demo | Check | Demo | Local Check |
| Bolangir | Tomato | Planting of Tomato variety Utkal raja at spacing of 75x50 cm | yield : q/ha | 340 q | 277q | 39,500 | 37,900 | 1,36,00 0 | 1,10,80 0 | 96,500 | 72,900 | 3.4 | 2.9 |
| Bolangir | Brinjal | Application of azotobacter @ 10kg/ha &V.C-100 kg | yield : q/ha | 310q | 245q | 42,300 | 39,790 | 1,39,50 | 1,10,25 | 97,200 | 70,460 | 3.3 | 2.7 |
| Bolangir | Pointed gourd | Planting Swarna alaukik at spacing of 2mx1m | yield : q/ha , No. of fruits/node | - | - | - | - | - | - | - | - | - | - |
| Bolangir | Water melon | Application of Nitro benzene @ 2 ml/l at 15 DAT once in every 25 days | yield : q/ha | 369q | 275q | 38,750 | 36,900 | 1,47,60 0 | 1,10,00 | 1,08,85 0 | 73,100 | 3.8 | 2.9 |

| Bolangir | Papaya | Seedling treatment with bavistin @1.5gm/l lt of water,pit of 45*45*45cm,distan ce 1.2-1.8 mt. | Yield : kg/plant | Awaited | | | | | | | | | |
|----------|----------|--|--|-------------------------|------------------------|--------|--------|----------|----------|--------|--------|------|------|
| Bolangir | Potato | Need based application of Metalaxyl+Mancoz eb @ 2.5 gm/l & Carbendazim+ Mancozeb @ 1 gm/l alternately at 10 days interval with DDVP @1ml/l & Acephate @2gm /l alternately at 10 days interval | Yield, q/ha Leaf blight Extent of damage, % Leaf curl Extent of damage, % | 160 15.75 20.62 | 136 24.87 42.18 | 57,000 | 52,000 | 1,28,000 | 1.08,800 | 71,000 | 56,800 | 2.24 | 2.09 |
| Bolangir | Cucumber | Need based application of Metalaxyl+Mancoz eb @ 2.5 gm/l & COC @ 3gm/l alternately at 10 days interval with Acetamiprid @1gm / 5 lit & Thiamethoxam@1g m / 5 lit alternately at 10 days interval | Yield, q/ha Powdery mildew Extent of damage, % Mosaic Extent of damage, % | 96.5 17 22 | 78 33.5 43.5 | 42,000 | 38,000 | 96,500 | 78,000 | 54,500 | 40,000 | 2.29 | 2.05 |
| Bolangir | Cowpea | Need based application of Imidacloprid @ 0.4ml /l & Triazophos @ 2ml /l alternately at 10 days interval | Yield, q/ha Leaf curl Extent of damage, % Flea beetle Extent of damage, % | 115.3 18.75 13.75 | 89.75 33.15 20.3 | 38,000 | 35,000 | 92,240 | 71,800 | 54,240 | 36,800 | 2.42 | 2.05 |

| Bolangir | Paddy straw mushroom | Disinfect the paddy bundles in 100 lts of water with 50 ml of formaline and 8 gms of bavistin for 12 hrs,drained absorbing excess water,prepared the bed. | Yield : kg/bed | 1.5 | New | 50/bed | New | 120 | - | 70 | - | 2.4 | |
|----------|--------------------------|---|--|-----------|------------|--------|-------|--------|--------|--------|--------|-------|------|
| Bolangir | Sugarcane stripper | It has got a dimension of (350 mm X 70 mm) and works by separating and pushing the leaf sheaths away from stalk and detopping of lane after harvest | kg of leaves/hr, Kg of Cane /hr | 33, 156 | 27, 132 | - | - | - | - | - | - | - | - |
| Bolangir | Tissue culture banana | Drip irrigation with emitters having discharge of 4 lit/hr fitted to each plant with a spacing of 7' between each laterals | yield : q/ha | 674 | 513 | 65400 | 52500 | 269600 | 205200 | 204200 | 152700 | 4.12 | 3.90 |
| Bolangir | Banaraja chicks | Feeding, rearing &vaccination practices | Kg/body weight | 3.6 | 1 | 2250 | 2000 | 24500 | 8000 | 22250 | 6000 | 10.88 | 4 |
| Bolangir | Vermicompost | Pit preparation by ring method, using o f better sustrate, harvesting technology etc. | Yield | .9 qtl/yr | Nil | 2000 | Nil | 4500 | Nil | 2500 | Nil | 2.25 | Nil |

3.4Feedback of the Farmers

| Name of | Feedback |
|----------|--|
| KVK | |
| Bolangir | 1. Utkal raja tomato is wilt tolerant ,more yielding variety but the variety can be grown only during pre rabi and rabi season ⁢ needs staking which is cost effective |
| Bolangir | 2. Application of Azotobacter @ 10 kg/ha along with vermin compost in brinjal there was more no.of feeder roots |
| | 3. Swarna alaukik variety bears fruits @2-3/node. Size of fruit is approx. 12 cm as compared to local 9 cm in length. Leaf size is larger and the plant is robust. |
| Bolangir | 4. Due to application of Nitro benzene in Water melon, there was enhancement in plant canopy & profuse flowering. |
| Bolangir | 5. Farmwomen are getting good quality compost by utilising farm waste product. |
| Bolangir | 6. Egg laying capacity of Banaraja breed may be increased |
| Bolangir | 7. Yield of V.Volvacea is better than V.Diplasia |
| Bolangir | 8. Farmers are happy as the drudgery reduction tool can strip the leaves on both sides of cane |
| Bolangir | 9. Initial cost of drip irrigation is very high |
| Bolangir | 10. Landless ladies are more interested about banaraja chicks and egg laying |
| Bolangir | 11. Yield of V.volvacea is better than the variety v.diplasia & the farmwomen demanding easily availabilities of spawn due to additional |
| | income for the farm women |

3.5 Training and Extension activities under FLD

| KVK Name | Crop | Activity | No. of activities organized | Number of participants | Remarks |
|----------|---|--------------------------------------|-----------------------------|------------------------|---------|
| Bolangir | Pointed gourd | Field days | | | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | T | Training for extension functionaries | | | |
| Bolangir | Tomato | Field days Farmers Training | 1 | 50 | |
| | | _ | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Bolangir | Water melon | Field days | | | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Bolangir | Brinjal | Field days | | | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Bolangir | | Field Day | | | |
| | | Farmers Training | | | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Bolangir | Sugarcane Stripper | Field days | | | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Bolangir | Banana | Field days | | | |
| Ü | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| | Backyard poultry Banaraja | Field days | 1 | 50 | |
| | , in the second | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |

| Bolangir | Potato | Field days | 1 | 40 | |
|----------|----------|--------------------------------------|---|----|--|
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Bolangir | Cowpea | Field days | 1 | 40 | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Bolangir | cucumber | Field days | 1 | 25 | |
| | | Farmers Training | | | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |

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 |
|-------------|--------------------------|------------------------------|-----------------------|------------------------------|
| Bolangir | FW | Group discussion, survey | 20.08.11,Ghungi | 25 |
| Bolangir | FW | Group discussion, survey | 19.10.11,Uparbahal | 25 |
| Bolangir | RY | Group discussion, survey | 10.11.11,Larambha | 15 |
| Bolangir | FW | Group discussion | 5.01.12,Lankabahal | 25 |
| Bolangir | FW | Group discussion | 20.02.12,Larkipalli | 25 |
| Bolangir | FW | Group discussion, survey | 25.02.12,Larkipalli | 25 |
| Bolangir | FW | Group discussion, survey | 23.05.11, Tulandi | 25 |
| Bolangir | FW | Group discussion | 14.10.11, Baghala | 25 |
| Bolangir | FW | Group discussion, PRA survey | 22.09.11/ Mirdhapalli | 25 |
| Bolangir | FW | Group discussion, PRA | 12.12.11/ Larambha | 25 |

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 A | reas 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

Table 5.1. Details of Training programmes conducted by the KVKs

| Name of | Cate-gory | Training | Thematic | Training Title | No. of | Duration | | | | Parti | icipants | | | |
|----------|-----------|----------|----------|---|---------|----------|---|--------|----|-------|----------|----|----|------|
| KVK | | Type | area | | Courses | (Days) | G | eneral | | SC | | ST | Ot | hers |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Bolangir | FW | ON | HOV | Micro nutrient application in Cole crops | 1 | 1 | | | | | 4 | | 21 | |
| Bolangir | FW | ON | HOV | Planting techniques of Pointed gourd | 1 | 1 | | | 1 | | | | 24 | |
| Bolangir | FW | ON | HOV | INM in Cabbage | 1 | 1 | | | 1 | | | | 24 | |
| Bolangir | FW | ON | HOV | Seed production and seed extraction techniques of Tomato | 1 | 1 | | | | | | | 25 | |
| Bolangir | FW | ON | HOV | INM in Solanaceous crops | 1 | 1 | | | 3 | | 1 | | 21 | |
| Bolangir | FW | ON | HOV | Off season cultivation of Pumpkin | 1 | 1 | 1 | | 3 | | 1 | | 20 | |
| Bolangir | FW | OFC | HOV | Cultavition of high yielding cowpea variety for hugher income | 1 | 1 | | | | | 1 | | 24 | |
| Bolangir | FW | OFC | HOF | Care and maintenance of Mango orchard | 1 | 1 | 2 | | | | 4 | | 19 | |
| Bolangir | RY | ON | HOF | Post harvest technology fir export of Horticultural products | 1 | 2 | | | 1 | | 5 | | 4 | |
| Bolangir | FW | OFC | HOV | Post harvest care of Onion | 1 | 1 | 1 | | 1 | | 1 | | 22 | |
| Bolangir | RY | ON | HOF | Inter cropping in Horticultural crops | 1 | 2 | 1 | | 2 | | 3 | | 9 | |
| Bolangir | FW | OFC | HOV | Cultivation aspects of Bitter gourd | 1 | 1 | | | | | 10 | | 15 | |
| Bolangir | FW | OFC | HOV | Off season cultivation of Vegetables | 1 | 1 | | | | | | | 25 | |
| Bolangir | INSER | ON | НОО | Management of weeds in Horticultural crops | 1 | 1 | | | 2 | | 2 | 1 | 4 | 1 |
| Bolangir | FW | OFC | HOV | Cultivation aspects of Onion | 1 | 1 | | | | | | | 25 | |
| Bolangir | RY | ON | HOP | Cost of cultivation of different Horticultural crops | 1 | 2 | | | | | | | 15 | |
| Bolangir | FW | ON | HOV | High yielding Okra as a profitable crop | 1 | 1 | | | 4 | | 9 | | 12 | |
| Bolangir | FW | OFC | HOF | Forcing Water melon out of season | 1 | 1 | | | | | 6 | | 19 | |
| Bolangir | FW | OFC | AEG | Principles of ploughing and farm implements required for field preparation of Kharif crops | 1 | 1 | 0 | 0 | 8 | 0 | 0 | 0 | 17 | |
| Bolangir | FW | OFC | AEG | Use of sugarcane stripper | 1 | 1 | 0 | 0 | 18 | 0 | 0 | 0 | 7 | |
| Bolangir | FW | OFC | AEG | Working operation of tractor operated multi crop seed drill | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 12 | 11 |

| Name of KVK | Cate-gory | Training | Thematic | Training Title | No. of | Duration | | | | Parti | icipants | | | |
|-------------|-----------|----------|----------|---|---------|----------|---|---------|----|-------|----------|----|----|------|
| KVK | | Type | area | | Courses | (Days) | | General | | SC | | ST | | hers |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | | | for sowing of paddy seeds | | | | | | | | | | |
| Bolangir | FW | OFC | AEG | Principle & working | 1 | 1 | 0 | | | | | | 21 | 0 |
| | | | | operation of pre-germinated paddy drum seeder | | | | 0 | 1 | 0 | 3 | 0 | | |
| Bolangir | FW | OFC | AEG | Use of power weeder in cotton crop | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 16 | |
| Bolangir | FW | ONC | AEG | Low cost farm implements used in paddy cultivation | 1 | 1 | 0 | 0 | 17 | 0 | 0 | 0 | 8 | |
| Bolangir | FW | ONC | AEG | Water management in groundnut crop | 1 | 1 | 1 | 0 | 5 | 6 | 1 | 0 | 5 | 7 |
| Bolangir | FW | ONC | AEG | Management of banana crop under drip irrigation system | 1 | 1 | 4 | 1 | 8 | 1 | 0 | 0 | 8 | 3 |
| Bolangir | FW | ONC | AEG | Use and efficiency of sprinkler irrigation in field crops | 1 | 1 | 0 | 0 | 4 | 0 | 5 | 0 | 16 | 0 |
| Bolangir | FW | OFC | AEG | Custom hiring of paddy reaper | 1 | 1 | | | | | | | 25 | |
| Bolangir | RY | OFC | AEG | Cost effective method of paddy cultivation using self propelled rice transplanter | 1 | 1 | 0 | 0 | 4 | 0 | 2 | 0 | 9 | |
| Bolangir | RY | ONC | AEG | Agri Enterpreneurship to establish Agro service Centre | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 12 | |
| Bolangir | RY | ONC | AEG | Use and efficiency of electrical pump in irrigation | 1 | 1 | 0 | 0 | 3 | 0 | 1 | 0 | 16 | 0 |
| Bolangir | FW | OFF | PLP | IDM in pulse | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 21 | 0 |
| Bolangir | FW | OFF | PLP | IPM in groundnut | 1 | 1 | 0 | 0 | 14 | 0 | 3 | 0 | 8 | 0 |
| Bolangir | FW | OFF | PLP | IDM in solanacious crops | 1 | 1 | 0 | 0 | 16 | 0 | 0 | 0 | 9 | 0 |
| Bolangir | FW | ONC | PLP | IPM in cabbage and cauliflower | 1 | 2 | 0 | 0 | 7 | 0 | 7 | 0 | 11 | 0 |
| Bolangir | FW | ONC | PLP | Latest and effective PP chemicals for pest management | 1 | 2 | 0 | 0 | 4 | 0 | 7 | 0 | 14 | 0 |
| Bolangir | FW | OFF | PLP | Management of sucking pest and diseases in green gram | 1 | 1 | 0 | 0 | 10 | 0 | 2 | 0 | 13 | 0 |
| Bolangir | FW | OFC | WOE | cultivation of Elephant footyam by farm women | 1 | 1 | | | | 3 | | 0 | | 22 |
| Bolangir | FW | OFC | WOE | Preparation of value added product from mango | 1 | 1 | | | | 5 | | 7 | | 213 |
| Bolangir | FW | OFC | WOE | Paddy straw mushroom cultivation | 1 | 1 | | | | 0 | | 5 | | 20 |
| Bolangir | FW | ONC | WOE | Rearing , feeding & vaccination practices of Vanaraja Chicks | 1 | 1 | | | | 1 | | 2 | | 22 |
| Bolangir | FW | ONC | WOE | Rearing practices of goat (Sirohibuck) | 1 | 1 | | | | 0 | | 3 | | 22 |

| Name of | Cate-gory | Training | Thematic | Training Title | No. of | Duration | | | | Parti | cipants | | | |
|----------|-----------|----------|----------|---|---------|----------|---|---------|----|-------|---------|----|----|-------|
| KVK | | Type | area | | Courses | (Days) | G | General | | SC | | ST | O | thers |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Bolangir | FW | ONC | WOE | Hybrid papaya cultivation by farm women | 1 | 1 | | | | 8 | | 2 | | 15 |
| Bolangir | FW | ONC | WOE | Paddy straw mushroom cultivation phase-II | 1 | 1 | | | | 3 | | 4 | | 18 |
| Bolangir | FW | ONC | WOE | Formation of SHG and development of entrepreneurship | 1 | 1 | | | | 3 | | 9 | | 12 |
| Bolangir | FW | ONC | WOE | Paddy straw mushroom cultivation inside poly house | 1 | 1 | | | | 5 | | 7 | | 13 |
| Bolangir | FW | ONC | WOE | Dhingri mushroom cultivation | 1 | 1 | | | | 5 | | 7 | | 13 |
| Bolangir | FW | OFC | WOE | Preparation of value added product from dhingri mushroom | 1 | 1 | | | | 4 | | 6 | | 15 |
| Bolangir | FW | OFC | WOE | Dhingri mushroom cultivation Phase-II | 1 | 1 | | | | 1 | | 4 | | 20 |
| Bolangir | FW | OFC | WOE | Preparation of lowcost vermicompost unit | 1 | 1 | | | | 6 | | 3 | | 16 |
| Bolangir | IS | OFC | WOE | Different homestead vocation activities for farmwomen | 1 | 2 | | | | 1 | | 1 | | 8 |
| Bolangir | RY | ONC | WOE | Preparation of value added product from tomato | 1 | 2 | | | | 1 | | 2 | | 12 |
| Bolangir | RY | ONC | WOE | Commercial floriculture an income generating remuneration for rural youth | 1 | 2 | | | | 0 | | 5 | | 10 |
| Bolangir | RY | ONC | WOE | Formation of SHG and its management | | | | | | 1 | | 7 | | 7 |
| Bolangir | FW | OFC | CBD | Income generation activities of SHG | 1 | 1 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 |
| Bolangir | FW | OFC | CBD | Alternate livelihood option for resource poor families | 1 | 1 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 |
| Bolangir | FW | OFC | CBD | Leadership development for community work | 1 | 1 | 0 | 0 | 14 | 0 | 3 | 0 | 8 | 0 |
| Bolangir | FW | OFC | CBD | IPM in Kharif pulses | 1 | 1 | 0 | 0 | 6 | 0 | 2 | 0 | 17 | 0 |
| Bolangir | FW | OFC | CBD | Formation and management of farmers group | 2 | 2 | 0 | 0 | 10 | 0 | 12 | 0 | 30 | 0 |
| Bolangir | FW | OFC | CBD | Mobilization of social capital in village | 1 | 1 | 0 | 0 | 0 | 1 | 4 | 1 | 6 | 13 |
| Bolangir | FW | OFC | CBD | Integrated nutrient management in pulse | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 7 |
| Bolangir | FW | OFC | CBD | Management practices of Greengram | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 23 | 0 |
| Bolangir | FW | OFC | CBD | Management skill of the farmers in diseasement | 1 | 1 | 0 | 0 | 17 | 0 | 3 | 0 | 5 | 0 |
| Bolangir | FW | OFC | CBD | Mnagement practices of Arhar | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 |

| Name of | Cate-gory | Training | Thematic | Training Title | No. of | Duration | | | | Part | icipants | | | |
|----------|-----------|----------|----------|---|---------|----------|---|--------|----|------|----------|----|----|------|
| KVK | | Type | area | | Courses | (Days) | G | eneral | | SC | ST | | Ot | hers |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Bolangir | FW | OFC | CBD | Group approaches for rural develoopment | 1 | 1 | 0 | 0 | 6 | 0 | 2 | 0 | 17 | 0 |
| Bolangir | RY | OFC | CBD | Marketing of agricultural practices | 1 | 1 | 0 | 0 | 7 | 0 | 1 | 0 | 7 | 0 |
| Bolangir | RY | OFC | CBD | Vermicomposting ffor income generation | 1 | 1 | 0 | 0 | 5 | 0 | 1 | 0 | 9 | 0 |
| Bolangir | RY | OFC | CBD | Agripreneurship development for Rural youth | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| Bolangir | IS | ONC | CBD | SWOT Analysis | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 0 |
| Bolangir | IS | ONC | CBD | Market-led extension | 1 | 1 | 0 | 1 | 3 | 0 | 1 | 0 | 5 | 0 |
| Bolangir | IS | ONC | CBD | PRA methodology | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |

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

| | | | | D | Number of Beneficiaries | | | | | | |
|-------------|---|--------------------------------------|------------------------|---------------------------------|-------------------------|---|----|---|---|--------|--|
| Name of KVK | Training title | Crop / Enterprise | Identified Thrust Area | rea Duration of training (days) | S | С | ST | | (| Others | |
| | - | | | training (days) | M | F | M | F | M | F | |
| Bolangir | Preparation of value added product from mushroom, seasonal fruit & vegetable | mushroom, seasonal fruit & vegetable | Value addition | 5 | 0 | 1 | 0 | 4 | 0 | 5 | |
| Bolangir | Sirohi buck – a small scale income generation enterprises for landless labourer | | | | | | | | | | |

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 | 7 | | |
|-------------|---|------------------------------|-----------------|----------------------------|--|
| | | Type of units | Number of units | Number of persons employed | Number of persons employed else where |
| Bolangir | Development of dual purpose backyard poultry-Banaraja | Free range | 5 | 5 | |

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) | Dura- tion (days) | No. of courses | | No. of Participants Others SC M F M | | Others | | | М | ST F | Sponsoring Agency | Fund received for training (Rs.) |
|-------------|-------------------------------------|--|--|------------------------------|-------------------------|----------------|----|-------------------------------------|---|--------|--|--|--|---------|----------------------|----------------------------------|
| Bolangir | Water management training programme | Increasing scale of water productivity | of Table 11) | FW | 7 | 1 | 30 | 17 | 2 | 1 | | | AICRP on water management RRTTS, Chipilima | 63000 | | |

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 Par Others M F | SC F | ST F | Sponsoring Agency | Fund received for training (Rs.) |
|-------------|-------|--|---|------------------------------|-----------------|----------------|-----------------------------|---------|---------|----------------------|----------------------------------|
| | | | | | | | | | | | |

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

| | Title of the training | No. of trainees | Change in (Score) | knowledge | Change in F | Production | Change in Inc | come (Rs) | Impact on 1. Area expanded (ha) |
|-------------|--|-----------------|-------------------|-----------|-------------|------------|---------------|-----------|---|
| Name of KVK | | tranices | Before | After | Before | After | Before | After | 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income |
| Bolangir | Micro nutrient application in Cole crops | 25 | 2 | 6 | 270 | 350 | 1,35,000 | 1,75,000 | 20, 15, |
| Bolangir | Planting techniques of Pointed gourd | 25 | 17 | 60 | 289 | 383 | 2,89,000 | 3,83,000 | % change in Income -33% |
| Bolangir | INM in Cabbage | 25 | 5 | 49 | 280 | 370 | 1,40,000 | 1,85,000 | % change in Income -32% |
| Bolangir | Seed production and seed extraction techniques of Tomato | 25 | 4 | 78 | 0.7 | 1.2 | 70,000 | 1,20,000 | % change in Income -71% |
| Bolangir | INM in Solanaceous crops | 25 | 37 | 59 | 280 | 370 | 1,40,000 | 1,85,000 | % change in Income -32% |
| Bolangir | Off season cultivation of Pumpkin | 25 | 27 | 67 | 203 | 276 | 81,200 | 1,10,400 | % change in Income -36% |
| Bolangir | Cultavition of high yielding cowpea variety for hugher income | 25 | 12 | 45 | 121 | 140 | 96,800 | 1,12,000 | % change in Income -16% |
| Bolangir | Care and maintenance of Mango orchard | 25 | 23 | 56 | 60 | 110 | 60,000 | 1,10,000 | % change in Income -83% |
| Bolangir | Post harvest technology fir export of Horticultural products | 10 | 4 | 45 | 234 | 301 | 1,87,200 | 2,40,800 | % change in Income -29% |
| Bolangir | Post harvest care of Onion | 25 | 23 | 49 | 160 | 240 | 1,44,000 | 2,16,000 | % change in Income -50% |
| Bolangir | Inter cropping in Horticultural crops | 15 | 12 | 58 | 109 | 195 | 65,400 | 1,17,000 | % change in Income -44% |
| Bolangir | Cultivation aspects of Bitter gourd | 25 | 34 | 79 | 145 | 236 | 2,17,500 | 3,54,000 | % change in Income -63% |
| Bolangir | Off season cultivation of Vegetables | 25 | 11 | 87 | 85 | 165 | 1,70,000 | 3,30,000 | % change in Income -82% |

| Bolangir | Management of weeds in Horticultural crops | 10 | 8 | 59 | 157 | 242 | 62,800 | 98,000 | % change in Income -56% |
|----------|---|----|----|----|------|------|----------|-----------------|---|
| Bolangir | Cultivation aspects of Onion | 25 | 26 | 81 | 156 | 239 | 1,40,400 | 2,15,100 | % change in Income -53% |
| Bolangir | Cost of cultivation of different Horticultural crops | 15 | 3 | 42 | 180 | 271 | 72,000 | 1,08,400 | % change in Income -51% |
| Bolangir | High yielding Okra as a profitable crop | 25 | 35 | 57 | 135 | 197 | 81,000 | 1,37,900 | % change in Income -70% |
| Bolangir | Forcing Water melon out of season | 25 | 24 | 72 | 275 | 369 | 1,92,500 | 2,58,300 | % change in Income -34% |
| Bolangir | Principles of ploughing and farm implements required for field preparation of Kharif crops | 25 | 06 | 10 | - | - | 8210 | 14672 | 25 nos. of trainee adopted,66.67,78.7 |
| Bolangir | Use of sugarcane stripper | 25 | 1 | 10 | - | - | - | - | 25 nos. of trainee adopted, 90% |
| Bolangir | Working operation of tractor operated multi crop seed drill for sowing of paddy seeds | 25 | 3 | 8 | 29 | 34 | 6105 | 12505 | 19 nos. of trainee adopted, 166.67, 17.24 |
| Bolangir | Principle & working operation of pre- germinated paddy drum seeder | 25 | 1 | 10 | 28 | 36 | 7190 | 13800 | 6 nos. of trainee adopted, 90, 28.5,91.9 |
| Bolangir | Use of power weeder in cotton crop | 25 | 4 | 10 | 11.2 | 13.1 | 16100 | 20500 | 18 nos. of trainee adopted, 150,16.96,27.32 |
| Bolangir | Low cost farm implements used in paddy cultivation | 25 | 2 | 8 | - | - | - | - | 9 nos. of trainee adopted,300 |
| Bolangir | Water management in groundnut crop | 25 | 4 | 9 | 12.8 | 16.7 | 20200 | 28350 | 18 nos. of trainee adopted, 125, 30.46, 40.34 |
| Bolangir | Management of banana crop under drip irrigation system | 25 | 2 | 9 | 490 | 650 | 140100 | 190000 | 5 nos. of trainee adopted, 350, 32.65, 35.61 |
| Bolangir | Custom hiring of paddy reaper | 25 | 6 | 10 | - | - | - | 1745/ha | 11 nos. of trainee adopted, 66.67 |
| Bolangir | Cost effective method of paddy cultivation using self propelled rice transplanter | 15 | 3 | 8 | 33 | 42 | 8250 | 15600 | 2 nos. of trainee adopted, 166.67, 27.27, 89 |
| Bolangir | Agri Enterpreneurship to establish Agro service Centre | 15 | 6 | 10 | - | - | - | 15000/mont h | 1 no of trainee adopted, 66.67 |

| Bolangir | Use and efficiency of sprinkler irrigation in field crops | 25 | 5 | 10 | - | - | 7250 | 15210 | 18 nos. of trainee adopted, 100, 109 |
|----------|---|----|---|----|----------------|------------------|-------|-----------|---|
| Bolangir | Use and efficiency of electrical pump in irrigation | 20 | 4 | 9 | - | - | - | - | 20 nos. of trainees adopted, 125 |
| Bolangir | cultivation of Elephant footyam by farm women | 25 | 1 | 6 | 220 | 269 | 4400 | 5380 | 5,15,500% |
| Bolangir | Preparation of value added product from mango | 25 | 2 | 8 | - | - | 1000 | 3000 | 16 villages,20 nos. of trainees adopted,300 |
| Bolangir | Paddy straw mushroom cultivation | 50 | 2 | 8 | - | 1.5 kg/bed | | 70/bed | 30 nos. of trainee adopted |
| Bolangir | Rearing , feeding & vaccination practices of Vanaraja Chicks | 25 | 3 | 7 | 1 kg/bird | 3-3.5 kg/bird | 180 | 420 | 15 nos. of trainee adopted |
| Bolangir | Rearing practices of goat (Sirohi buck) | 25 | 3 | 7 | 25 kg/buck | 80 kg/buck | 5000 | 16000 | 10 nos. of trainee adopted |
| Bolangir | Hybrid papaya cultivation by farm women | 25 | 2 | 8 | 20 kg/plant | 40 kg/plant | 38000 | 64800 | 15 nos. of trainee adopted |
| Bolangir | Formation of SHG and development of entrepreneurship | 25 | 4 | 8 | - | - | - | - | 10 nos. of trainee adopted |
| Bolangir | Paddy straw mushroom cultivation inside poly house | 25 | 0 | 3 | - | 1 kg/bed | - | 90/bed | 7 nos. of trainee adopted |
| Bolangir | Dhingri mushroom cultivation | 50 | 2 | 7 | - | 2 kg/bed | - | 90/bed | 20 nos. of trainee adopted |
| Bolangir | Preparation of lowcost vermicompost unit | 25 | - | 4 | - | 0.8 q/tank | - | 2400/tank | 12 nos. of trainee adopted |
| Bolangir | Commercial floriculture an income generating remuneration for rural youth | 15 | 3 | 8 | 20 q/ha | 80 q/ha | 9600 | 37200 | 10 nos. of trainee adopted |

6. EXTENSION ACTIVITIES

| Name of the | | | | Deta | il of Pa | rticipan | nts | | | | Remarks | |
|-------------|--|-------------------|-------------------|----------|----------|----------|------|--------|-----|--|---|---|
| KVK | Activity | No. of activities | No. of activities | Farm | | SC/ST | | Exten | | | | |
| | Activity | (Targeted) | (Achieved) | (Othe | ers) | (Farm | ers) | Offici | als | Purpose | Topic s | Crop |
| | | (g , | , , , , , , | M | F | M | F | M | F | | | Stages |
| Bolangir | Field Day | 10 | 7 | 148 | 46 | 95 | 37 | 24 | 0 | On the principle of Seeing is Believing | 1-Potato,2-Cowpea, 3- Cucumber, 4-Dual purpose poultry bird | |
| Bolangir | Kisan Mela | | | | | | | | | | | |
| Bolangir | Kisan Ghosthi | | 36 | 315 | 130 | 75 | 50 | 20 | 10 | Strengthening and capacity building of Farmers groups | | |
| Bolangir | Exhibition | 2 | 2 | MA SS | | | | | | | | |
| Bolangir | Film Show | | 2 | 262 | 54 | 148 | 21 | 10 | 5 | Information dissemination | 1- IPM in Okra, 2- SRI method of cultivation | 1-vegetative stage, 2- Nursery stage |
| Bolangir | Method Demonstrations | | | | | | | | | | | |
| Bolangir | Farmers Seminar | 3 | 3 | | | | | | | | | |
| Bolangir | Workshop | | | | | | | | | | | |
| Bolangir | Group meetings | | 12 | 62 | 25 | 15 | 12 | 6 | | Identification, prioritization of problems and problem analysis | | |
| Bolangir | Lectures delivered as resource persons | | 86 | 525 | 365 | 422 | 298 | 60 | 80 | Information dissemination | | |
| Bolangir | Newspaper coverage | | 03 | MA SS | | | | | | Popularization of new technologies and highlightining the activities of KVK | | |
| Bolangir | Radio talks | 15 | 12 | MA SS | | | | | | Information dissemination and popularization of new technologies | 1-Bamboo cultivation, 2- Sabuja ghara, 3-Plastic mulching, 4- vermicompost | |
| Bolangir | TV talks | 3 | 1 | MA SS | | | | | | Information dissemination and popularization of new technologies | Cropping system | |
| Bolangir | Popular articles | | | | | | | | | | | |
| Bolangir | Extension Literature | 20 | 20 | - | - | _ | _ | - | - | - | - | - |
| Bolangir | Farm advisory Services | | | | | | | | | | | |
| Bolangir | Scientific visit to farmers field | | 130 | 345 | 121 | 132 | 56 | | | Identification, prioritization of problems and problem analysis | Site selection for conducting OFT & FLD, pest and disease identification on Application of herbicide, Fruit and shoot borer in heliothis, bollworm management in cotton. | |

| Name of the | | | | Deta | il of Pa | rticipan | its | | | Remarks | | |
|-------------|------------------------------------|-------------------|-------------------|---------------|----------|----------------|-----|-------------------|----|--|--|----------------|
| KVK | Activity | No. of activities | No. of activities | Farm (Othe | | SC/ST (Farm | | Extens Officia | | Down | m | C |
| | | (Targeted) | (Achieved) | M | F | M | F | M | F | Purpose | Topic s | Crop Stages |
| Bolangir | Farmers visit to KVK | | 625 | 340 | 55 | 185 | 45 | 49 | 23 | Information on new technologies, problem identification | | |
| Bolangir | Diagnostic visits | | 27 | 94 | | 46 | | | | Identification, prioritization of problems and problem analysis | BLB in paddy, blast in paddy | |
| Bolangir | Exposure visits | 1 | 1 | 24 | 0 | 6 | 0 | 0 | 0 | Seeing is believing | Bitter gourd seed production field at Khaprakhol block | |
| Bolangir | Ex-trainees Sammelan | | 1 | 18 | | 8 | 2 | | | Sharing of experiences among peer groups and information | | |
| Bolangir | Soil health Camp | | | | | | | | | | | |
| Bolangir | Animal Health Camp | | 1 | 31 | | 9 | | 2 | | Prophylactic prevention of disease outbreak | | |
| Bolangir | Agri mobile clinic | | | | | | | | | | | |
| Bolangir | Soil test campaigns | | | | | | | | | | | |
| Bolangir | Farm Science Club conveners meet | | 4 | 43 | 20 | 32 | 5 | | | Strengthening of farmers club, capacity building among members and Sharing of experiences among peer groups and information | | |
| Bolangir | Self Help Group conveners meetings | | 1 | | 34 | | 16 | | | | | |
| Bolangir | Mahila Mandals conveners meetings | | | | | | | | | | | |
| Bolangir | Celebration of important days | | 2 | | 48 | | 20 | | 5 | Popularization of important days | Womens Day | |

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 |
|----------|-----------------------|-------------------------|--------------------------|------------------------------|
| Bolangir | April-June 2011 | 1 st quarter | 500 | 450 |
| Bolangir | July-Sept-2011 | 2 nd quarter | 500 | 450 |
| Bolangir | October-December-2011 | 3 rd quarter | 500 | 450 |

7.2 Literature developed/published

| KVK Name | Туре | Title | Author's name | Number of copies |
|----------|---------|--|--|------------------|
| Bolangir | Leaflet | Mahila manaka pain byabasika bhitire pala chhatu chasha | Smt Sasmita Purohit, SMS(H.Sc) | 30 |
| Bolangir | Leaflet | Sita Dinare mahilamanaka pain dhingiri chhatu chasha | Smt Sasmita Purohit, SMS(H.Sc) | 30 |
| Bolangir | Leaflet | Ambaru prastuta hoi paruthiba bibhinna prakarara sanrakshitia drabya | Smt Sasmita Purohit, SMS(H.Sc) | 500 |
| Bolangir | Leaflet | Bilati baiganaru prastuta hoi paruthiba bibbhinna prakarara sanrakshita drabya | Smt Sasmita Purohit, SMS(H.Sc) | 500 |
| Bolangir | Leaflet | Adinia panipariba chasha | Smt. Swagatika Srichandan, SMS(Hort.) | 500 |
| Bolangir | Leaflet | Unnata pranalire tomato, baigana O lanka maricha chasha | Smt. Swagatika Srichandan, SMS(Hort.) | 500 |
| Bolangir | Leaflet | Bonsai | Smt. Swagatika Srichandan, SMS(Hort.) | 500 |
| Bolangir | Leaflet | Unnata pranalire harada chasha | Mr. Kamalakanta Behera, SMS(Ag. Extn.) | 30 |
| Bolangir | Leaflet | Unnata pranalire chinabadam chasha | Mr. Kamalakanta Behera, SMS(Ag. Extn.) | 30 |
| Bolangir | Leaflet | Unnata pranalire kapa chasha ebong samanyuita pranalire roga poka parichalana | Mr. Kamalakanta Behera, SMS(Ag. Extn.) | 30 |
| Bolangir | Leaflet | Dhana Phasala re balunga niyantrana | Mr. Ashis Kumar Das, SMS(PP) | 500 |
| Bolangir | Leaflet | Suskanchala pain stanatarana yogya kirosine pump ra upajogita O ehara karyakarita paddhati | Mrs. Dipsika Paramjita, SMS(Ag. Engg.) | 30 |

7.3 Details of Electronic Media Produced

| | KVK Name | Type of media (CD / VCD / DVD / Audio- | Title of the programme | Number |
|---|----------|--|------------------------|--------|
| | | Cassette) | | |
| - | | - | - | - |
| | | | | |
| | | | | |

8. Production and supply of Technological products

8.1 SEED production

| KVK Name | Major group/class | Сгор | 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 |
|----------|-------------------|-----------|---------|---|----------|---|-------------|-------------------------------|
| Bolangir | Pulse | Blackgram | Ujjala | SD | 1.7 | SD | 14045 | - |
| Bolangir | Pulse | Greengram | OBGG-52 | SD | 1.4 | SD | 13054 | - |
| | | | | | | | | |

8.2 Planting Material production

| | | Name | | Date of | | Details of production | | | Amount (Rs | | |
|----------|--------------------|---|----------------|---------|-------|---|--------------------|------|----------------|--------------|---------|
| KVK Name | Major group/class | of the crop | Date of sowing | harvest | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks |
| Bolangir | Vegetable seedling | Tomato, Brinjal, Papaya, Brocolli, Chilli, drumstick | - | - | 0.001 | Utkalaraja, VNR-212, CO-7 & SINTA F1, Utkalava, PKM1 | Seedlings | 5050 | 1606 | 3000 | |

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

| | WWW Name of the Due door | | Amount (Rs.) | | |
|----------|--------------------------|-----|----------------|--------------|---------|
| KVK Name | Name of the Product | Qty | Cost of inputs | Gross income | Remarks |
| | BIOAGENTS | | | | |
| | BIOFERTILIZERS | | | | |
| | BIO PESTICIDES | | | | |

8.4 Livestock and fisheries production

| | Name | Details of production | Į. | | Amount (Rs.) | Amount (Rs.) | | |
|----------|------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|--|
| KVK Name | of the animal / bird / aquatics | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | Remarks | |
| | Cattle | | | | | | | |
| | Buffalo | | | | | | | |
| | Sheep and Goat | | | | | | | |
| | Poultry | | | | | | | |
| | Fisheries | | | | | | | |
| | Others (Specify) | | | | | | | |

9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : NOT AVAILABLE

Year of establishment : -

9.1 Details of soil & water samples analyzed so far :

| KVK Name | Details | No. of Samples | No. of Farmers | No. of Villages | Amount realized |
|----------|----------------------|----------------|----------------|-----------------|--------------------------------------|
| Bolangir | Soil sample analysis | 36 | 36 | 6 | The samples have been tested in OUAT |
| | | | | | Laboratory at the cost st of farmer |

10. Rainwater Harvesting: NOT AVAILABLE

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

| | Training programmes conducted by using Kamwater Harvesting Demonstration Cint | | | | | | | | | | | |
|---|---|------|------------------------------|----------------------------------|-------------------|------|--------|------------------------------|------|--------|-----------------|-------|
| | Name of KVK | Date | Title of the training course | Client (PF/RY/EF) No. of Courses | (PF/RY/EF) No. of | | | of Participa cluding SC/S | | No. o | of SC/STPartici | pants |
| | | | | | Courses | Male | Female | Total | Male | Female | Total | |
| | - | - | - | - | - | - | - | - | - | 1 | - | |
| Ī | | | | | | | | | | | | |
| Ī | | | | | | | | | | | | |

11. Utilization of Farmers Hostel facilities

Accommodation available (No. of beds): NOT AVAILABLE

| KV. | K Name | Months | Year | | | Duration of training | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|-----|--------|--------|------|--|--|----------------------|------------------------------|----------------------------------|-----------------------------------|
| | - | - | - | | | - | - | - | - |
| | | | | | | | | | |
| | | | | | | | | | |

12. Utilization of Staff Quarters facilities: NOT AVAILABLE

| KVK Name | Year of construction | Year of allotment | No. of quarters occupied | No. of quarters vacant | Reasons for vacant quarters, if any |
|----------|----------------------|-------------------|--------------------------|------------------------|-------------------------------------|
| - | - | - | - | - | - |
| | | | | | |
| | | | | | |

13. Details of SAC Meeting

| KVK Name | Date of SAC meeting | No. of SAC members attended | Major recommendations |
|----------|---------------------|-----------------------------|--|
| Bolangir | 28-02-2012 | 30 | 1. Popularization of kharif onion |
| | | | 2. Collaboration work with line deptt, Bank, NGO |
| | | | 3. Popularization of hybrid rice & scented rice |
| | | | 4. Promotion of Arhar variety –Asha in Bolangir district |
| | | | 5. Inter cropping of paddy and arhar should be popularized |
| | | | 6. Awareness should be created on preservation of water |
| | | | 7. Popularization of subarcane variety: F602 rather than Co-7805 |
| | | | 8. Awareness of farmers about farm mechanization such seed drill, power weeder, transplanter |
| | | | 9. 2 nos of farmers fair should be conducted in a year |
| | | | 10. Training should be given about bad impact of BT variety of cotton |
| | | | 11. More nos of OFT should be conducted on black gram |
| | | | 12. Pratiksha variety of paddy should popularized in Bolangir district |
| | | | 13. Popularization of upland maize |
| | | | 14. Promotion of Devi variety of G.nut rather than Smruti variety due to poor germination |
| | | | 15. More demonstration should conducted on tomato variety: Utkala Raja |

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

| KVK Name | No. of messages sent | No. of beneficiary | | No. of messages sent No. of beneficiary Major recommendations | | |
|----------|----------------------|--------------------|------------|---|--|--|
| | | Farmers | Ext. Pers. | | | |
| Bolangir | 15 | 1400 | 100 | IPM, INM, Inter cropping, harvesting, post harvest technology, micro nutrient | | |
| | | | | application, marketing, crop diversification, water management etc. | | |

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 |
|-------------|----------------|-----------------------------------|----------------------|----------------------|---------------------|---------|
| Bolangir | ATMA | State | 18000 | Exposure | Sambalpur | |
| | | | | visit of | | |
| | | | | farmers, | | |
| | | | | exhibition etc | | |
| | MNREGA | | | | | |
| | NHM | | | | | |
| Bolangir | RKVY | | | | | |
| | DRDA | | | | | |
| | Zila Panchyat | | | | | |
| | Seed village | | | | | |
| | NAIP | | | | | |
| | Climate Change | | | | | |
| | Others | | | | | · |

16. Status of Revolving Funds (Rs.)

| KVK Name | Account No. | Opening balance (Rs.) as on 01.04.2011 | Closing balance (Rs.) as on 31.03.2012 | Current status (Rs.) |
|----------|-------------|--|--|----------------------|
| Bolangir | 31149194881 | 14,000 | 6,01,000 | - |

16.Awards & Recognitions

| KVK Name | Name of award /awardee | | Awarding Organizations | Amount received |
|----------|---------------------------|---|------------------------|-----------------|
| - | = | - | - | = |

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

Success Story –I Successful Farmwomen

Name of the KVK : KVK-Bolangir, OUAT, Bhubaneswar, Orissa

TITLE : Azolla Cultivation increased income from Dairy Farming

Introduction : Mrs. Sarojini Patel, W/o of Sri Dubai Patel, a middle aged women of village

Fatakara in Puintala Block of Bolangir District included dairy as a component

with three nos. of Jersey cows in her farming system since five years back.

Other major component of her farming system are cultivation of pulses 0.4 ha,

medium land paddy 1.2 ha and vegetable 0.56 ha along with paddy straw

mushroom cultivation. Among all components maintaining the dairy unit was

becoming difficult with ever increasing cost of cattle feeds.



KVK intervention : At this juncture the newly formed KVK, Bolangir intervened in the year 2010 and imparted training to her on Azolla

cultivation and demonstration.

Output : The farmwomen constructed three pits of size 2m X 2m X 0.2m from which she gets on an average 4 kg Azolla per day.

Outcome : The farmwomen is able to saves Rs.24,000/- per year towards cost of cattle feeds and extra income Rs. 12,600/- per year

Impact : The milk production has increased from 12 ltrs per day to 15 ltrs per day. The encouraging result motivated another 5

nos farmers to adopt Azolla cultivation in the village.

Successful Farmer

Name of the KVK : KVK-Bolangir, OUAT, Bhubaneswar, Orissa

TITLE : Vegetable farming (Okra)

Introduction : Sri. Narahari Rout is a graduate farmer of Larkipalli village in Bolangir District.

After completion of his graduation he started farming with his parental land of 2.4 ha

adjacent to Bolangir Municipal area. Till the year 2009 he was continuing rice-pulse

based farming system with less income of Rs. 60,000/- per annum.



KVK intervention : After the inception of KVK, Bolangir, scientists of KVK constantly guided him and

insisted him to go for vegetable farming (Okra Var : Mahyco 10) In the year 2010

and imparted training to him on Okra cultivation and demonstration. He cultivated

0.2 ha of Okra in Kharif -2010

Output : He then went for cultivation of 1ha Okra during rabi season 2010. He harvested

about 108 q/ha. Which is double than the earlier varieties.



Outcome : Sri Rout harvested about 108q/ha and earned Rs. 1,29,600 /- a net profit of Rs.81,135/- per ha was obtained against

expenditure of Rs. 48,465

19. Details of KVK Agro-technological Park: NOT AVAILABLE

| Name of KVK | Name of Component of Park | Detail Information (If established) |
|-------------|---------------------------|--|
| | Crop Cafeteria | |
| | Technology Desk | |
| | Visitors Gallery | |
| | Technology Exhibition | |
| | Technology Gate-Valve | |

20. Important visitors to KVK

| 201 1111 P01 | Zot important (ibitory to il (il | | | | | | | | |
|---------------------|---|--------------------|-------------------------|--|--|--|--|--|--|
| Name of | Name of Visitor | Date of Visit | Remarks | | | | | | |
| KVK | | | | | | | | | |
| Bolangir | Prof. D.P.Roy, V.C., OUAT, BBSR | 21.11.11 | | | | | | | |
| Bolangir | Dr. S.S. Nanda, DEE,OUAT,BBSR | 23.11.11/ 28.02.12 | Review KVK activities & | | | | | | |
| | | | attended SAC meeting | | | | | | |
| Bolangir | Dr. R.K.Raj Joint Director, Extension, Directorate of | 07.12.11 | Review KVK activities | | | | | | |
| | Extension Education, OUAT, BBSR | | | | | | | | |

21. Status of KVK Website: AVAILABLE (kvkbolangirzpdvii.org)

22. E-CONNECTIVITY: NOT AVAILABLE

| Name of KVK | Number and | l Date of Lectur | e delivered from I | No of lectors organized by KVK | Brief achievements | Remarks | |
|-------------|------------|-------------------------|------------------------------------|-----------------------------------|-----------------------|---------|---|
| | Date | No of Staff attended | No of call received from Hub | No of Call mate to Hub by KVK | | | |
| - | _ | - | - | _ | - | - | - |

23. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

| Name of KVK | Types of Activities | No. of | Number of | Related crop/livestock technology |
|-------------|---|------------|--------------|-----------------------------------|
| | | Activities | Participants | |
| Bolangir | Gosthies | | | |
| Bolangir | Lectures organized | | | |
| Bolangir | Exhibition | | | |
| Bolangir | Film show | | | |
| Bolangir | Fair | | | |
| Bolangir | Farm Visit | | | |
| Bolangir | Diagnostic Practical's | | | |
| Bolangir | Distribution of Literature (No.) | | | |
| Bolangir | Distribution of Seed (q) | | | |
| Bolangir | Distribution of Planting materials (No.) | | | |
| Bolangir | Bio Product distribution (Kg) | | | |
| Bolangir | Bio Fertilizers (q) | | | |
| Bolangir | Distribution of fingerlings (No) | | | |
| Bolangir | Distribution of Livestock specimen (No.) | | | |
| Bolangir | Total number of farmers visited the technology week | | | |

24. INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

| Name of KVK | Crops/cultivars | Area (ha) | Number of beneficiaries |
|-------------|-----------------|-----------|-------------------------|
| BOLANGIR | | | |
| | | | |

Major area coverage under alternate crops/varieties

| Mane of KVK | Crops | Area (ha) | Number of beneficiaries |
|-------------|-----------------|-----------|-------------------------|
| | Oilseeds | | |
| | Pulses | | |
| | Cereals | | |
| | Vegetable crops | | |
| | Tuber crops | | |
| | Fruits | | |
| | Spices | | |
| | Cotton | | |
| | | | |
| | | | |
| | Total | | |

| Name of KVK | Livestock co | mponents | Number of inter | No.of participants | | | |
|--|--------------|---------------------------|-------------------------|-----------------------|--------|---------------------|-------------------|
| | Dairy Manag | ement | | | | _ | |
| | Disease mana | agement | | | | | |
| | Feed and fod | der technology | | | | | |
| | Poultry mana | gement | | | | | |
| | | | | | | | |
| | | | | | | | |
| | _ | | | | | | |
| Animal health camps organise | d | N. 1 | | N. O | | 77 00 | |
| Name of KVK | | Number of camps | | No.of animals | | No.of farm | iers |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Seed distribution in drought h | it states | | | | | | |
| Name of KVK | | Crops | | Quantity (qtl) | | verage of | Number |
| | | | | | are | a (ha) | farmers |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Seedlings and Sanlings distrib | uted | | | | | | |
| | uted | Crans | | Quantity (No.s) | | | Number |
| | uted | Crops | | Quantity (No.s) | Со | verage of | Number of farmers |
| | uted | Crops | Seedlings | Quantity (No.s) | Со | | Number |
| | uted | Crops | Seedlings | Quantity (No.s) | Со | verage of | |
| | uted | Crops | Seedlings | Quantity (No.s) | Со | verage of | |
| | uted | Crops | Seedlings | Quantity (No.s) | Со | verage of | |
| | uted | Crops | Seedlings | Quantity (No.s) | Со | verage of | |
| | uted | Crops | Seedlings | Quantity (No.s) | Со | verage of | |
| | uted | Crops | Seedlings | Quantity (No.s) | Со | verage of | |
| Seedlings and Saplings distrib Name of KVK Bio-control Agents | uted | Crops | Seedlings | Quantity (No.s) | Со | verage of | |
| | | | | | Corare | verage of | |
| Name of KVK Bio-control Agents | | Crops Bio-control Agents | Seedlings Quantity (q) | Coverage of | Corare | verage of a (ha) | |
| Name of KVK Bio-control Agents | | | | | Corare | verage of a (ha) | |
| Name of KVK Bio-control Agents | | | | Coverage of | Corare | verage of a (ha) | |
| Bio-control Agents Name of KVK | | | | Coverage of | Corare | verage of a (ha) | |
| Bio-control Agents Name of KVK | | Bio-control Agents | Quantity (q) | Coverage of Area (ha) | No. of | verage of a (ha) | |
| Bio-control Agents Name of KVK | | | | Coverage of Area (ha) | Corare | verage of a (ha) | |

| (f) | Verms | Prod | uced |
|------------|-------|------|------|
|------------|-------|------|------|

| Name of KVK | Verms Produced | Quantity (q) | Coverage of Area (ha) | No. of Farmers |
|-------------|----------------|--------------|--------------------------|----------------|
| | | | Arca (na) | |
| | | | | |

(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 for | | ners fair Exhibitio | | xhibition Film sho | | 10W | |
|-------------|----------|---------|----------|---------|------------------------|---------|---------------------|---------|--------------------|---------|-----|---------|
| | No. | No. of | No. | No. of | No. | No. of | No. | No. of | No. | No. of | No. | No. of |
| | | farmers | | farmers | | farmers | | farmers | | farmers | | farmers |
| Bolangir | | | | | | | | | | | | |
| | | | | | | | | | | | | |

25.

Status of KVK Website: Already having website
If available, please provide the address of website: **kvkbolangirzpdvii.org**

26. Well labeled Photographs for each activity of the KVK (Soft copies as well as hard copy) Attached in separate folder as photographs





Hybrid paddy - JKRH-401









Application Herbicide Pyrozosulfuron ethyl in direct sown upland paddy



RECOMMENDED PRACTICE



FARMERS' PRACTICE



RECOMMENDED PRACTICE

FARMERS' PRACTICE



ASSESSMENT OF COWPEA VARIETY: UTKAL MANIK





ASSESSMENT OF BORON IN CABBAGE





Assessment of Maleic hydrazide in Onion







ASSESSMENT OF ETHYLENE IN PUMPKIN



OFT ON MARIEGOLD VAR: PUSABASANTI





Farmer Operating paddy drum seeder for sowing pre germinated seeds







Farmer operating power weeder in cotton crop





RECOMMENDED PRACTICE



FARMERS' PRACTICE



RECOMMENDED PRACTICE





FARMERS' PRACTICE





PACKAGE DEMONSTRATION ON HIGH YIELDING TOMATO VAR: UTKALA RAJA







CULTIVATION OF HIGH YIELDING POINTED GOURD

VAR –SWARNA ALAUKIK







INM IN BRINJAL



Demonstration of Papaya variety Coorg honeydew



RECOMMENDED PRACTICE

FARMERS' PRACTICE



RECOMMENDED PRACTICE







Demonstration on Sugarcane stripper







Drip irrigation system in Banana







Dual purpose poultry farming



Low cost Vermicomposting through ring method