

ANNUAL PROGRESS REPORT 2009-10



**KRISHI VIGYAN KENDRA
MALKANGIRI**

***ORISSA UNIVERSITY OF AGRICULTURE
& TECHNOLOGY, BHUBANESWAR***

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1. GENERAL INFORMATION ABOUT THE KVK

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

| KVK | Postal Address with Pin code | Telephone | | | E mail |
|------------|---|-----------|--------|--------|--|
| | | STD | Office | FAX | |
| Malkangiri | Krishi Vigyan Kendra, At-Talasahi Po/Dist-Malkangiri, Pin-764045 | 06861 | 230050 | 230050 | malkangirikvk@yahoo.co.in |

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

| Host Institute name | Postal Address with Pin code | Telephone | | | E mail |
|--|---|-----------|---------|---------|---|
| | | STD | Office | FAX | |
| Orissa University of Agriculture and Technology, Bhubaneswar | Orissa University of Agriculture and Technology Bhubaneswar-751003 | 0674 | 2392677 | 2391780 | http://ouat.ac.in vc@ouat.ori.nic.in |

1.3. Name of the Programme Coordinator (I/C) with phone & mobile No

| Name | Telephone / Contact | | |
|--------------------------|---------------------|------------|-------|
| | Residence | Mobile | Email |
| Mr. Sanjay Kumar Mohanty | - | 9437368659 | - |

1.4. Year of sanction: March, 2006 (started functioning from September, 2006)

1.5. Staff Position (as on 31th March 2010)

| 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) |
|--------------|----------------------------|---------------------------|------------------|----------------|---------------------------|---------------------------|---------------------|-----------------|----------------------|------------------------------|
| Malkangiri | Programme Coordinator | Sri Sanjay Kumar Mohanty | Plant Protection | M.Sc. (Ag.) | Entomology | 8,000 - 13,500 | 9,100 | 17.06.06 | Temporary | Others |
| Malkangiri | Subject Matter Specialist1 | Smt. Bidyutlata Mallick | Home Science | M.Sc. (H.Sc.) | Home Science | 8,000 | 8,000 | 28.10.09 | Temporary | S.T |
| Malkangiri | Subject Matter Specialist2 | Miss. Sunita Dandase na | Agronomy | M.Sc. (Ag.) | Agronomy | 8,000 | 8,000 | 23.11.09 | Temporary | S.T |
| Malkangiri | Subject Matter Specialist3 | | | | | | | | | |
| Malkangiri | Subject Matter Specialist4 | | | | | | | | | |
| Malkangiri | Subject Matter Specialist5 | | | | | | | | | |
| Malkangiri | Subject Matter Specialist6 | | | | | | | | | |
| Malkangiri | Programme Assistant | | | | | | | | | |
| Malkangiri | Farm Manager | | | | | | | | | |
| Malkangiri | Computer Programmer | | | | | | | | | |
| Malkangiri | Accountant /superintendent | | | | | | | | | |
| Malkangiri | Stenographer | Sri Pradeep Kumar Nayak | | B.Sc. | | 4,000 -6000 | 4,300 | 12.10.06 | Temporary | Others |
| Malkangiri | Driver | Sri Chandra Sekhar Behera | | HSC | | 3,005 -75-3,950 -80-4,590 | 3,200 | 01.08.07 | Temporary | S.C |
| Malkangiri | Driver | Sri Upendra Mishra | | HSC | | 3,050 | 3,050 | 25.07.08 | Temporary | Others |
| Malkangiri | Supporting staff | Sri Budhia Behera | | - | | 2,550 | 2,550 | 30.07.08 | Temporary | OBC |

| 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) |
|--------------|------------------|-----------------------|------------|----------------|---------------------------|-----------------|---------------------|-----------------|----------------------|------------------------------|
| Malkangiri | Supporting staff | Sri Bata Naik | | - | | 2,550 | 2,550 | 01.08.08 | Temporary | S.C |
| Malkangiri | | | | | | | | | | |

1.6. Total land with KVK (in ha) : 20.83 Ha.

| S. No. | Item | Area (ha) |
|--------|---------------------------|-----------|
| 1 | Under Buildings | 2 |
| 2. | Under Demonstration Units | - |
| 3. | Under Crops | - |
| 4. | Orchard/Agro-forestry | - |
| 5. | Others | 18.83 |

1.7. A) Infrastructural Development: A) Buildings Only demarcation of KVK farm with barbed fencing completed (partly) and Admn. Building is going to be started shortly.

| S. No. | Name of building | Source of funding | Stage | | | | | |
|--------|------------------------------|-------------------|--------------------|--------------------|-------------------|---------------|--------------------|------------------------|
| | | | Complete | | | Incomplete | | |
| | | | Completion Date | Plinth area (Sq.m) | Expenditure (Rs.) | Starting Date | Plinth area (Sq.m) | Status of construction |
| 1. | Admin. Building | ICAR | Under Construction | | | 5.3.09 | 281.69 | Contd. |
| 2. | Farmers Hostel | ICAR | Under Construction | - | - | - | - | - |
| 3. | Staff Quarters (6) | ICAR | Under Construction | - | - | - | - | - |
| 4. | Demo Units (2) | ICAR | - | - | - | - | - | - |
| 5. | Fencing | ICAR | 09.10.07 | 5500/r.feet | 7,00,000/- | | | Stolen |
| 6. | Rain Water harvesting system | ICAR | - | - | -- | - | - | |
| 7. | Threshing floor | ICAR | - | - | -- | - | - | |
| 8. | Farm Godown | ICAR | - | - | -- | - | - | |

B) Vehicles

| Type of vehicle | Year of purchase | Cost (Rs.) | Total kms. Run | Present status |
|------------------------|------------------|------------|----------------|----------------|
| TATA SUMO | 28.04.2006 | 3,77,270/- | | Running |
| Tractor Mahindra | 10.05.2006 | 3,94,900/- | | Running |
| Hero Honda Motor cycle | 31.03.2010 | 49,965/- | | Running |

C) Equipments & AV aids

| Name of the equipment | Year of purchase | Cost (Rs.) | Present status |
|-----------------------|------------------|------------|----------------|
| TV | 2007 | 11,200/- | Running |
| DVD | 2007 | 2,400/- | Running |
| Camera | 2007 | 9,800/- | Running |
| Stabilizer(0.5w) | 2007 | 1,000/- | Running |

| | | | |
|----------------|------|----------|---------|
| Digital Camera | 2008 | 9800/- | Running |
| LCD Projector | 2010 | 72,750/- | Running |

1.8. Details SAC meeting* conducted in the year

| Venue & Date | No. of Participant | Salient Recommendations | Action taken |
|--|--------------------|--|---|
| DRDA Conference Hall Dt. 12.03.2009 | 26 | Testing of INM in Groundnut. | OFT on assessment of INM and weed management module in Ground nut |
| | | Popularization of SRI method of Rice cultivation | Training on techniques to be adopted for SRI method of rice cultivation to practicing farmers |
| | | INM in Maize | FLD on INM in maize |
| | | Production of Vermins and Vermicompost | Training on Vermin Vermicompost production and preparation of Vermiwash. FLD on Vermicompost production |
| | | Testing of aromatic rice variety | OFT on scented rice |
| | | Shoot and Fruit borer management in Brinjal | OFT on fruit and shoot borer in Brinjal. |
| | | Developing farming system models. | FLD on Integrated farming system |
| | | Disease management in Tomato | FLD on management of leaf curl viral disease in tomato. |
| | | Introduction of wilt resistant variety of tomato | OFT on assessment of wilt resistant high yielding variety of tomato (Utkal Raja) |
| | | Crop diversification in upland | Training to farmers for maize, groundnut, pulse like Arhar, Bengalgram, in upland during Kharif |

2. DETAILS OF DISTRICT (2009-10)

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

Malkangiri District at a Glance

| | |
|----------------------------|---|
| Agro Climatic Zone | South Eastern Ghat Zone |
| Location | Chhatishgarh in North and West, Andhra Pradesh in South, Koraput district in East |
| Latitude | 17 ⁰ 40' to 18 ⁰ 43' |
| Longitude | 81 ⁰ 22' to 82 ⁰ 25' |
| Altitude | 300-900 m MSL |
| River system | Saberi in the North-West and Sileru in the South separating Malkangiri from Andhra Pradesh and Chhatishgarh |
| Population density | 87 per sq km (as per 2001 census) |
| Total Geographical area | 579100 ha(As per Dist. Statistical hand Book) |
| Gross cultivated area | 167000 ha |
| Total cultivated area | 141560 ha |
| High land | 87121 ha (61.55%) |
| Medium land | 30414 ha (21.48%) |
| Low land | 24025 ha (16.97%) |
| Total Population | 505000 (SC-23%, ST-55% & Other-22%) |
| Total Agriculture Family | 91667 |
| Total Population of Male | 253000 |
| Total Population of Female | 252000 |
| Literacy rate | 30.53% |
| Soil Texture | Sandy loam, clay loam |
| Soil type | Red laterite, acidic |
| Fertilizer Consumption | 17.78 : 8.92 : 4.82 kg NPK per hectare |
| Major Cropping system | Rice-Rice, Rice-Groundnut, Rice-vegetable, sesamum-Rice Rice-Maize |
| Predominant crop | Paddy (Area-85126 ha, average yield-20.12 q/ha) Groundnut(Area-14156 ha, average yield-21.64 q/ha) |
| Other crops | Sesamum, Greengram, Maize, Vegetables |
| Cropping intensity | 126% during 2008-09 |
| Major plantation crop | Mango, Banana |
| Average annual rainfall | 1521.8 mm (75% received during June to September) |
| Relative Humidity | 25-70% |

| | |
|-----------------------|---------------------|
| Average Maximum Temp. | 44.8 ⁰ C |
|-----------------------|---------------------|

DETAILS OF DISTRICT (2009-10)

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

| S. No | Farming system/enterprise |
|-------|---------------------------|
| 1 | Rice –Rice |
| 2 | Rice –Groundnut |
| 3 | Rice-vegetables |
| 4 | Fallow-Sesamum-Rice |
| 5 | Rice-fish |
| 6 | Rice-Greengram |
| 7 | Pond based |
| 8 | Vegetable-vegetable |
| 9 | Arhar-Rice |

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

| S. No | Agro-climatic Zone | Characteristics |
|-------|--------------------|---|
| 1 | South Eastern Ghat | Situated between 17 ⁰ 49' and 18 ⁰ 3' N latitude ; 81 ⁰ 15' and 82 ⁰ 75' E longitude Scattered and sharp isolated hills and thick forest Major area covered under undulated uplands Major soil type are –red sandy loam, red loam, red laterite and black loam. Annual average rainfall 1521.8mm Mostly poor acidic , red soil . Mono crop with rice,ragi,sesamum,groundnut and some vegetables in kharif as rainfed crops |

| S. No | Agro ecological situation | Characteristics |
|-------|--|---|
| 1 | Medium rainfall, high elevation (1000-1250 mm, 400-900m) | Red soil with undulated up lands , cultivated crops are ,Rice,ragi,kulthi and maize Receiving the rain fall -1200 mm |
| 2 | Medium rainfall, low elevation (1000-1250 mm, <400m) | Red and red laterite soil with crop covers like rice,maize,mung with rain fall 1250mm |
| 3 | High rainfall, low elevation (>1250 mm, <400m) | Red soil with crop covers of rice,groundnut ,mung and ragi |
| 4 | Low rainfall, low elevation (<1000 mm, <400m) | Red and laterite soil ,low rain fall, crop covers like rice ,til ,black gram etc. |

2.4 Soil type

| S. No | Soil type | Characteristics | Area in ha |
|-------|-------------------|--|------------|
| 1 | Red sandy loam | Highly erodible, fertile,covers major area | 317.0 |
| 2 | Red loam laterite | Undulated waste lands ,covers orchard crops,ragi and some pulses and oil seeds | 238.0 |
| 3 | Black laterite | Waste lands | 260.0 |

2.5. Weather data

| Month | Normal Rainfall (mm) | Actual rainfall 2009-10 (mm) | Deviation from Normal Rainfall | Temperature | |
|-----------|----------------------|------------------------------|--------------------------------|-------------|------------|
| | | | | Maximum° C | Minimum° C |
| April | 34.8 | 0 | 34.80 | 45.6 | 22.6 |
| May | 49.1 | 3.55 | 45.55 | 45.4 | 22.0 |
| June | 212.2 | 84.38 | 127.82 | 41.6 | 23.0 |
| July | 465.7 | 456.20 | 9.50 | 36.0 | 24.2 |
| August | 472.8 | 307.60 | 165.20 | 34.0 | 23.0 |
| September | 281.2 | 166.93 | 114.27 | 34.8 | 22.6 |
| October | 109.5 | 5.33 | 104.17 | 33.8 | 21.2 |
| November | 23.6 | - | | 29.8 | 14.0 |
| December | 3.0 | - | | 26.2 | 11.2 |
| January | 2.7 | - | | 29.8 | 9.0 |
| February | 4.0 | - | | 36.4 | 13.2 |
| March | 8.9 | - | | 41.6 | 17.0 |
| Total | 1667.6 | 1324.14 | | | |

2.6. Crop coverage

| Sl No | Crop | Area(ha) | Production (q) | Productivity(q/ha) |
|-------|-------------|----------|----------------|--------------------|
| 1 | Total Paddy | 75150 | 19200825 | 25.55 |
| 2 | Total Maize | 8100 | 213435 | 26.35 |
| 3 | Arhar | 950 | 41325 | 4.35 |
| 4 | Greengram | 2505 | 95691 | 3.82 |
| 5 | Blackgram | 37.80 | 192.78 | 5.10 |
| 6 | Groundnut | 14156 | 290198 | 20.50 |
| 7 | Sesamuim | 27410 | 1110105 | 4.05 |
| 8 | Mustard | 450 | 801 | 1.78 |
| 9 | Mesta | 190 | 1558 | 8.20 |
| 10 | Chilli | 1485 | 1185625 | 12.50 |
| 11 | Tomato | 1693 | 209060 | 123.40 |
| 12 | Brinjal | 3675 | 456080 | 124.10 |
| 13 | Cabbage | 908 | 232100 | 255.61 |
| 14 | Cauliflower | 456 | 63390 | 139.01 |
| 15 | Okra | 1466 | 126530 | 86.30 |

2.7. Live Stock Scenario in the District

| Live stock | Breed | Population (no.) | Milk/meat Production |
|------------|--------------|------------------|----------------------|
| Cow | Indian breed | 428963 | 5.9TMt |
| | Exotic | 5692 | 5.53TMt |

| | | | |
|--------------|--------------|---------------|-------------------|
| Bufallo | Indian breed | 46890 | 5.381TMt |
| Total | | 481545 | 16.811TMt |
| Goat | Indian breed | 144961 | 13653 |
| Sheep | Indian breed | 28545 | 4454 Kg/year |
| Pig | Indian breed | 60173 | - |
| Poultry | Indian breed | 487244 | 10.56 ml/yr (egg) |
| Duck | Indian breed | 24357 | 2 lakh/yr (egg) |

2.8. Details of Operational area / Villages

| Sl. No. | Taluk | Name of the block | Name of the village | Major crops & enterprises | Major problem identified | Identified Thrust Areas |
|---------|-------------|-------------------|---------------------|--|---|---|
| 1 | Malkan giri | Malkan giri | Mundaguda | Paddy, maize, Groundnut, G.gram, Sesamum, Brinjal, Tomato, Dairy, poultry, goatery | <ul style="list-style-type: none"> Imbalance nutrient management Lack of knowledge in integrated disease and pest management in different crops | <ul style="list-style-type: none"> High Yielding disease resistant varieties cultivation Weed management IPM, INM, IDM |
| 2 | Malkan giri | Malkan giri | Kadabahal | Paddy,maize,Groundnut. G.gram,Sesamum,Brinjal, Tomato, Dairy, poultry, goatery,fishery | <ul style="list-style-type: none"> Low yield due to cultivation of local varieties | <ul style="list-style-type: none"> Cultivation of fodder, Vaccination/ Deworming |
| 3 | Malkan giri | Malkan giri | MV-8 | Paddy,maize,Groundnut. G.gram,Sesamum,Brinjal, Tomato,chilli,cabbage, cauli flower,Banana,cow pea, pumpkin Dairy, poultry, goatery,fishery | <ul style="list-style-type: none"> Low production from fishery and live stock enterprises Drudgery to farm women Un employed rural youth | <ul style="list-style-type: none"> Fish pond mgt. Capacity building Balance nutrition Un Employment |

| | | | | | | |
|---|-------------|-------------|-----------|---|---|--|
| 4 | Malkan giri | Malkan giri | Pedawada | Paddy,maize,Groundnut. G.gram,Sesamum,Brinjal, Tomato,chilli,cow pea, pumpkin Dairy, poultry, goatery, | <ul style="list-style-type: none"> • Post harvest loss of fruits and vegetables • Low income due to rice mono cropping and drought condition • Reduction of soil fertility | |
| 5 | Malkan giri | Malkan iri | Siadimala | Paddy,maize,Groundnut. G.gram,Sesamum,Brinjal, Tomato,chilli,cow pea, pumpkin Dairy, poultry, goatery, | | |

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

| Sl.No | THRUST AREA |
|-------|--|
| 1. | Integrated nutrient management in Cereals and pulses. |
| 2. | Integrated Pest management. |
| 3. | Replacement of Local Variety and to increase seed replacement ratio. |
| 4. | Promotion of Pisciculture along with integrated cropping system.(FSR approach) |
| 5. | Integrated Diseases Management using bio-pesticides, crop rotation. |
| 6. | Sustainable Agriculture through suitable cropping system. |
| 7. | Natural Resource Management to intact soil health. |
| 8. | Yield enhancement in sesamum and groundnut by application of gypsum /paper mill sludge/micro nutrient. |
| 9. | Improving productivity in vegetables and fruits through varietal and advance technology. |

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

| Sl.No. | Problem identified | Methods of problem identification |
|--------|---|--------------------------------------|
| 1. | Low yield due to imbalance nutrient management of different crops | PRA Survey, Focused group discussion |
| 2. | Lack of knowledge in integrated disease and pest management of | PRA Survey, Focused group discussion |

| | | |
|----|---|--------------------------------------|
| | different crops | |
| 3. | Low yield due to cultivation of local variety | PRA Survey, Focused group discussion |
| 4. | Low production from fishery and livestock enterprises | PRA Survey, Focused group discussion |
| 5. | Drudgery to Farm Woman | PRA Survey, Focused group discussion |
| 6. | Unemployment rural youth | PRA Survey, Focused group discussion |
| 7. | Post harvest loss of fruits and vegetable | PRA Survey, Focused group discussion |

Details of On Farm Testing:

O.F.T -1

1. Title of the OFT: Assessment of Wilt tolerant high yielding variety of tomato (Utkala Raja)
2. Problem Diagnosed: Low yield of tomato due to use of old varieties
3. Details of technologies selected for assessment/refinement: T1- Pusa rubi , T2 –Utkala Raja
4. Source of technology: OUAT, Bhubaneswar
5. Production system and thematic area : 2007
6. Performance of the Technology with performance indicators: Testing of variety against low yield
7. Final recommendation for micro level situation : The wilt tolerant variety can be used in both irrigated and rain fed condition
8. Constraints identified and feedback for research : Keeping quality is low
9. Process of farmers participation and their reaction: 5 farmers were selected from three of the adopted villages through farmers group meeting. Each replication represents one farmer.

Results on on Farm Trials:

| Crop/enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|-----------------|-----------------------|---|---|----------------|--|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Tomato | Irrigated Medium Land | Low yield of tomato due to use of old varieties | Assessment of high yielding variety of tomato (Utkala Raja) | 5 | Yield maximization By Certified seed of Tomato variety – Utkala Raja | No. of fruits per plant & Fruit weight |

| | | | | | | | | | | | | |
|--------|------|-----------|------------|--|----------------------|------------------|-------------------------|------|--|--|--|--|
| | | | | | | | | | | | | |
| | | | | | N | P | K | | | | | |
| Tomato | Rabi | Irrigated | Sandy loam | | Low (191.4 to 209.7) | Low (8.2 to 8.9) | Medium (207.2 to 236.1) | Rice | | | | |

OFT-2

1. Title of the OFT: Assessment YMV resistant variety of Okra (Arka Anamika)
2. Problem Diagnosed: Low yield Due to high infestation of YMV
3. Details of technologies selected for assessment/refinement: T1-pusa Sawani, T2- arka Anamika
4. Source of technology: I I H R, Bangalore.
5. Production system and thematic area : Rice –vegetable, varietals evaluation
6. Performance of the Technology with performance indicators: Testing of variety against YMV for yield and YMV incidence percentage.
7. Final recommendation for micro level situation : Var. Arka Anamika is Resistant to YMV
8. Constraints identified and feedback for research : Yield lower than other Hybrid
9. Process of farmers participation and their reaction: 5 farmers were selected from three of the adopted villages through farmers group meeting. Each replication represents one farmer.

Results on On Farm Trials:

| Crop/enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|-----------------|-----------------------|--|---|----------------|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Okra | Irrigated medium land | Low yield due to severe infestation of YMV | Assessment of High Yielding Variety of Okra against YMV | 5 | Yield maximization with introduction of YMV resistant variety | Yield , C:B. ratio, YMV incidence (%age) No of fruits /plant |

| Data on the parameter | Results of assessment | Feedback from the | Any refinement | Justification for refinement |
|-----------------------|-----------------------|-------------------|----------------|------------------------------|
|-----------------------|-----------------------|-------------------|----------------|------------------------------|

| | | | | | | | | | | | | |
|------|--------|-----------------------|------|--|----------------------|------------------|------------------------|--------|--|--|--|--|
| | | | | | | | | | | | | |
| | | | | | N | P | K | | | | | |
| Okra | Summer | Irrigated medium land | Loam | | Low (191.4 to 209.7) | Low (8.2 to 8.9) | Medium (20.7 to 236.1) | Pad dy | | | | |

OFT-3

1. Title of the OFT: Assessment of HYV of Groundnut (Smruti)
2. Problem Diagnosed: Low yield Due to old variety
3. Details of technologies selected for assessment/refinement: T1-JL-24, T2- Smruti
4. Source of technology: -----
5. Production system and thematic area : Rice- Groundnut, Varietal evaluation
6. Performance of the Technology with performance indicators: Testing of technology against for yield
7. Final recommendation for micro level situation : Compatible
8. Constraints identified and feedback for research : Yield lower than other hybrid
9. Process of farmers participation and their reaction: 5 farmers were selected from three of the adopted villages through farmers group meeting. Each replication represents one farmer.

Results on On Farm Trials:

| Crop/enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|-----------------|-----------------------|-------------------|---|----------------|---|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Groundnut | Irrigated medium land | Low yield | Assessment of High yielding variety of Groundnut Smruti | 5 | Yield maximization with introduction of HYV | Yield and Pods/plant |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|-----------------------|-----------------------|--------------------------|---------------------|------------------------------|
|-----------------------|-----------------------|--------------------------|---------------------|------------------------------|

| | | | | | | | | | | | | |
|-----------|--------|-----------|------------|--|----------------------|------------------|------------------------|-------|--------------------|----------------------|---|---|
| Groundnut | Kharif | Irrigated | Sandy loam | | Low (191.4 to 209.7) | Low (8.2 to 8.9) | Medium (20.7 to 236.1) | Paddy | 22-8-09 to 30-8-09 | 18-12-09 to 30-12-09 | - | - |
|-----------|--------|-----------|------------|--|----------------------|------------------|------------------------|-------|--------------------|----------------------|---|---|

OFT-4

1. Title of the OFT: Assessment of high yielding variety of Green gram
2. Problem Diagnosed: Low yield of Green gram due to use of old varieties
3. Details of technologies selected for assessment/refinement: T1- Use of unidentified variety, T2- Certified seed of Green gram variety –Durga
4. Source of technology: OUAT, Bhubaneswar, 2005
5. Production system and thematic area : Rice-Green gram, Varietal evaluation
6. Performance of the Technology with performance indicators: Testing of technology against yield
7. Final recommendation for micro level situation : Compatible
8. Constraints identified and feedback for research : Availability of seed, further research is required to develop YMV resistant variety.
9. Process of farmers participation and their reaction: 5 farmers were selected from three of the adopted villages through farmers group meeting. Each replication represents one farmer.

Results on On Farm Trials:

| Crop/enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|-----------------|-----------------------|-------------------|--|----------------|---|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Greengram | Irrigated medium land | Low yield | Assessment of High yielding variety of Greengram Durga(OBGG52) | 5 | Yield maximization with introduction of HYV | Yield and Pods/plant |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|---|---|---|---------------------|------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| F.P . Yield-3.76qtl. Pods/plant-36.2 | Yield of local variety was 3.76 qtl/ha as compared to 7.42 qtl/ha Increase in yield 97.34% Avg. no of pods/plant-69.4 in Durga where as it is 36.2 in the case of local variety | Farmers are interested to grow this variety | - | - |
| R.P . Yield-7.42qtl. Pods/plant-69.4 | | | | |

| Technology Assessed / Refined | Productivity of district | *Production per unit | Gross cost(Rs.) | Gross return (Rs.) | Net Return (Profit) in Rs. / unit | BC Ratio | Additional yield Qt / Ha | Additional cost (Rs.) | Additional return (Rs.) |
|-------------------------------|--------------------------|----------------------|-----------------|--------------------|-----------------------------------|----------|--------------------------|-----------------------|-------------------------|
| 13 | | 14 | | | 15 | 16 | | | |
| Farmer's practice | 3.82 | 3.76 | 9000 | 18800 | 9800 | 2.08 | 2.94 | 500 | 14200 |
| Technology assessed | | 6.7 | 9500 | 33500 | 24000 | 3.52 | | | |
| Technology refined** | | | | | | | | | |

Farming Situation:

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rain fall (mm) | No. of rainy days |
|-----------|-----------|----------------------------------|------------|----|----------------------|------------------|------------------------|---------------|--------------------------------|-----------------|-------------------------|-------------------|
| | | | | | N | P | K | | | | | |
| Greengram | Late Rabi | Irrigated | Sandy loam | | Low (191.4 to 209.7) | Low (8.2 to 8.9) | Medium (20.7 to 236.1) | Paddy | January 2 nd . week | March last week | - | - |

OFT-5

1. Title of the OFT: Assessment of high yielding variety of pointed gourd (Swarna alaukik)
2. Problem Diagnosed: Low yield due to use of local variety .
3. Details of technologies selected for assessment/refinement: Planting of cuttings Pointed gourd variety- Swarna Alaukik
4. Source of technology: CHES, Bhubaneswar, 2007
5. Production system and thematic area : Rice-Vegetable, Varietal Evaluation
6. Performance of the Technology with performance indicators: Testing of technology against yield

7. Final recommendation for micro level situation : Compatible
 8. Constraints identified and feedback for research : Availability of planting materials, further research is required to prevent immature flower & fruit dropping.
 9. Process of farmers participation and their reaction: 5 farmers were selected from two of the adopted villages through farmers group meeting. Each replication represents one farmer.

Results on On Farm Trials:

| Crop/enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|------------------------|--------------------------|---------------------------------------|---|-----------------------|--|---------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Pointed gourd | Irrigated, Medium land | Low yield due to use of local variety | Assessment of high yielding variety of pointed gourd (Swarna alaukik) | 5 | Planting of cuttings Pointed gourd variety- Swarna Alaukik | Yield, Fruits/plant |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|---|---|---|----------------------------|-------------------------------------|
| 8 | 9 | 10 | 11 | 12 |
| F.P . Yield/ha.-210Qtl No. Of fruits/plant- 64 | Yield of local variety was 210qtl/ha as compared to 254 qtl/ha Increase in yield 20.95% Avg. no of fruits/plant-75.6 in Swarna Aloukik where as it is 64 in the case of local variety | Farmer appreciating the variety due to good yield, better marketability | - | - |
| R.P . Yield/ha.-254Qtl No. Of fruits/plant- 75.6 | | | | |

| Technology Assessed / Refined | Productivity of district | *Production per unit | Gross cost(Rs.) | Gross return (Rs.) | Net Return (Profit) in Rs. / unit | BC Ratio | Additional yield Qt / Ha | Additional cost (Rs.) | Additional return (Rs.) |
|-------------------------------|--------------------------|----------------------|-----------------|--------------------|-----------------------------------|----------|--------------------------|-----------------------|-------------------------|
| 13 | | 14 | | | 15 | 16 | | | |
| Farmer's practice | - | 210 | 52000 | 210000 | 158000 | 4.03 | 44 | 10000 | 34000 |
| Technology assessed | | 254 | 62000 | 254000 | 192000 | 4.09 | | | |
| Technology refined** | - | | | | | | | | |

Farming Situation:

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rain fall (mm) | No. of rainy days |
|---------------|--------|----------------------------------|------------|----|----------------------|------------------|-------------------------|---------------|------------------------------|---------------------------------------|-------------------------|-------------------|
| | | | | | N | P | K | | | | | |
| Pointed gourd | Rabi | Irrigated | Sandy loam | - | Low (191.4 to 209.7) | Low (8.2 to 8.9) | Medium (20.72 to 236.1) | Paddy | October 2 nd week | December 3 rd week onwards | - | - |

OFT-6

1. Title of the OFT: Assessment of use clipping knife in harvesting of okra
2. Problem Diagnosed: Low efficiency and high drudgery in plucking of okra
3. Details of technologies selected for assessment/refinement: Use of clipping knife in harvesting of okra
4. Source of technology: NRCWA, Bhubaneswar, 2008
5. Production system and thematic area : Rice-Vegetable, Assessment
6. Performance of the Technology with performance indicators: Testing of technology against efficiency of clipping knife in okra
7. Final recommendation for micro level situation : Compatible
8. Constraints identified and feedback for research : -

9. Process of farmers participation and their reaction: 10 farmers were selected from two of the adopted villages through farmers group meeting. Each replication represents one farmer.

Results on On Farm Trials:

| Crop/ enterprise | Farming situation | Problem Diagnosed | Title of OFT | No. of trials* | Technology Assessed | Parameters of assessment |
|-----------------------------|------------------------------|--|---|-------------------------------|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Okra | Irrigated, Medium land | Low efficiency and high drudgery in plucking of okra | Assessment of use clipping knife in harvesting of okra | 10 | Use of clipping knife in harvesting of okra | Quantity of okra plucked/hour |

| Data on the parameter | Results of assessment | Feedback from the farmer | Any refinement done | Justification for refinement |
|----------------------------------|--|---|------------------------------------|---|
| 8 | 9 | 10 | 11 | 12 |
| F.P . 10 kg/ hour | Efficiency of clipping knife was 17 kg/hour as compared to 10 kg/hour when plucked manually. Increase in efficiency 70% | Farmer appreciating the techmology | - | - |
| R.P . 17 kg/hour | | | | |

| Technology Assessed / Refined | Productivity of district | *Efficiency/hour | Gross cost for plucking (Rs.) | Gross weight of okra plucked/day | Net Return (Profit) in Rs. / unit | BC Ratio | Additional quantity of okra plucked | Additional cost (Rs.) | Additional quantity of okra plucked/day |
|-------------------------------|--------------------------|------------------|---|----------------------------------|-----------------------------------|--------------------------|-------------------------------------|-----------------------|---|
| 13 | | 14 | | | 15 | 16 | | | |
| Farmer's practice | - | 10kg | Rs 3/blade + Labour charge-Rs90/8hrs | 80 kg. | - | .86 kg harvested/rup ee | 56 | 22 | 56 |
| Technology assessed | | 17kg. | Rs 25/Clipping knife+ Labour charge-Rs90/8hrs | 136 kg | - | 1.18 kg harvested/rup ee | | | |
| Technology refined** | | | | | | | | | |

Farming Situation:

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rain fall (mm) | No. of rainy days |
|------|--------|----------------------------------|------------|----|----------------------|------------------|----------------------|---------------|------------------------------|---------------------------------------|-------------------------|-------------------|
| | | | | | N | P | K | | | | | |
| Okra | Rabi | Irrigated | Sandy loam | - | Low (191.4 to 209.7) | Low (8.2 to 8.9) | Medium (20 to 236.1) | Paddy | October 2 nd week | December 3 rd week onwards | - | - |

FLD

Cereals:

| s l n o | crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No of farmers/Demonstration | | | Reason for shortfall in achievement |
|------------------|-------|---------------|-----------------------------|-----------------|-----------|--------|-----------------------------|-------|-------|-------------------------------------|
| | | | | | Proposed | actual | sc/st | other | total | |
| 1 | Maize | INM | INM in hybrid Maize P-30R77 | Summer 09 | 1 | 1 | 5 | - | 5 | |

Details of farming situation

| C r o p | Se a s o n | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|------------------|------------------------|----------------------------------|------------|------------|--------------------|------------------|-----------------------|---------------|------------------|---------------|------------------------|-------------------|
| | | | | | N | P | K | | | | | |
| Maize | Summer | Irrigated Medium land | Sandy loam | 5.6 to 6.3 | Low (19.1 to 20.9) | Low (8.2 to 8.9) | Medium (20.7 to 23.6) | Rice | January III Week | April IV Week | Nil | |

Performance of FLD

Cereals:

| Sl. No | Crop | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Dist. Productivity | Demo. Yield No. of Cobs/ha | | | Yield of local Check Qtl./ha | Increase in yield (%) | Addi. Yield | Data on parameter in relation to technology demonstrated | |
|--------|-------|-------------------------|---------|----------------|------------|--------------------|----------------------------|---------------------|------------------------------------|------------------------------|-----------------------|---------------------------|--|--|
| | | | | | | | H | L | A | | | | Demo | Local |
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | | 12 | 13 |
| 1 | Maize | INM in Hybrid maize | P-30R77 | 5 | 1 | 26.35 Q/ Ha | 10600 (43.2 Q/Ha) | 9800 (38.4 Q/Ha) | 10200 no cob/ha (40.8 Q/ Ha) | 72000 (25.2 Q/Ha) | 41.6 | 30000 cobs (15.6 q/ha) | No. of Cobs/plant =1.8 Length of cob =28.9 cm | No. of Cobs/plant =1.2 Length of cob =21.2 cm |

Economic impact of FLD

| Average cost of cultivation(Rs/Ha) | | Average gross return(Rs/Ha) | | Average net return/profit(Rs/Ha) | | BC Ratio (GR/GC) | | Additional Cost (Rs) | Additional Return (Rs) |
|------------------------------------|-------------|-----------------------------|-------------|----------------------------------|-------------|------------------|-------------|----------------------|------------------------|
| Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | | |
| 22700 | 19500 | 51000 | 36000 | 28300 | 16500 | 2.24 | 1.80 | 3200 | 11800 |

Technical Feed Back on demonstrated Technology

| Sl No. | Feed Back |
|--------|--|
| 1. | All the farmers appreciated the performance of the demonstration and ready to adopt the components. The net return was increased due to use of hybrid seed. The availability of seed of the variety and irrigation is a major problem. |

Farmer's reaction on specific technology

| Sl No. | Feedback |
|--------|---|
| 1 | Appreciated the performance of the variety, availability of seed and irrigation are the major problem |

| Sl No | Crop | thematic area | Technology Demonstrated | Season and year | Area (ha) | | No of farmers/Demonstration | | | Reason for shortfall in achievement |
|-------|-------|-----------------------------|-------------------------|-----------------|-----------|--------|-----------------------------|-------|-------|-------------------------------------|
| | | | | | proposed | actual | sc/st | other | total | |
| 2 | Paddy | Cultivation of HYV of Paddy | Use of HYV-Pratikshya | Kharif, 2009 | 1 | 1 | 5 | - | 5 | |

Details of farming situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|-------|--------|----------------------------------|------------|------------|----------------------|------------------|-------------------------|---------------|----------------------|-----------------|------------------------|-------------------|
| | | | | | N | P | K | | | | | |
| Paddy | Kharif | Irrigated Medium land | Sandy loam | 5.6 To 6.3 | Low (191.4 to 209.7) | Low (8.2 to 8.9) | Medium (207.2 to 236.1) | Rice | February II&III week | April I&II Week | Nil | |

Performance of FLD

| Sl. No | Crop | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Dist. Productivity | Demo. Yield No. of Cobs/ha | | | Yield of local Check Qtl./ha | Increase in yield (%) | Addi. Yield Qtl/ha. | Data on parameter in relation to technology demonstrated | |
|--------|------|-------------------------|---------|----------------|------------|--------------------|----------------------------|---|---|------------------------------|-----------------------|---------------------|--|-------|
| | | | | | | | H | L | A | | | | Demo | Local |
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | | 12 | 13 |

| | | | | | | | | | | | | | | |
|---|-------|-----------------------|----------------|---|---|-------------|------|------|------|------|-------|-----|--|--|
| 2 | Paddy | Use of HYV-Pratikshya | HYV-Pratikshya | 5 | 1 | 25.55 Q/ Ha | 53.8 | 48.7 | 49.6 | 41.9 | 18.37 | 7.7 | No of tillers/Square meter-9 Number of grains Panicle-203 | No of tillers/Square meter-5 Number of grains Panicle-156 |
|---|-------|-----------------------|----------------|---|---|-------------|------|------|------|------|-------|-----|--|--|

Economic impact of FLD

| Average cost of cultivation(Rs/Ha) | | Average gross return(Rs/Ha) | | Average net return/profit(Rs/Ha) | | BC Ratio (GR/GC) | | Additional Cost (Rs) | Additional Return (Rs) |
|------------------------------------|-------------|-----------------------------|-------------|----------------------------------|-------------|------------------|-------------|----------------------|------------------------|
| Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | | |
| 24,000 | 23,000 | 48,608 | 41,062 | 24,608 | 18,062 | 2.02 | 1.78 | 1000 | 6546 |

Technical Feed Back on demonstrated Technology

| SI No. | Feed Back |
|--------|--|
| 1. | All the farmers appreciated the performance of the demonstration and ready to adopt the components. The net return was increased due Pratikshya variety. The irrigation is a major problem |

Farmer's reaction on specific technology

| SI No. | Feedback |
|--------|---|
| 1. | Appreciated the performance of the variety, availability of seed and irrigation are the major problem |

Horticultural crops

| Sl. No | Crop | Thematic area | Technology Demonstrated | Season and year | Area (ha) | | No. of farmers/ Demonstration | | | Reasons for shortfall |
|--------|---------|-----------------------------------|---------------------------------------|-----------------|-----------|--------|-------------------------------|--------|-------|-----------------------|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Cow pea | Seed treatment with biofertilizer | Seed treatment with Rhizobium and PSB | Summer ,09 | 1.0 | 1.0 | 4 | 0 | 4 | |
| 2 | Pumpkin | Cultivation of HYV of Pumpkin | Improved Gu amal variety | Summer ,09 | 1.0 | 1.0 | 4 | 0 | 4 | |

Farming Situation

| Crop | Season | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|---------|--------|----------------------------------|------------|------------|--------------------|---------------------|-----------------------|---------------|----------------------|-------------------|------------------------|-------------------|
| | | | | | N | P | K | | | | | |
| Cow pea | Summer | Canal Irrigated | Sandy loam | 5.7 to 6.4 | Low 148.3 To 213.1 | Medium 12.3 To 16.1 | Medium 287.4 To 321.7 | Rice | February II&III Week | April I & II Week | - | - |
| Pumpkin | Summer | Canal Irrigated | Sandy loam | 5.4 to 6.2 | Low 159.1 To 207.4 | Medium 13.2 To 15.3 | Medium 309.6 To 336.9 | Rice | February I Week | April I & II Week | - | - |

Performance of FLD

| Sl. No | Crop | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Dist. Productivity | Demo. Yield Qtl/ha | | | Yield of local Check Qtl./ha | Increase in yield (%) | Addi. Yield | Data on parameter in relation to technology demonstrated | |
|--------|---------|---------------------------------------|--------------|----------------|------------|--------------------|--------------------|-------|-------|------------------------------|-----------------------|-------------|--|---|
| | | | | | | | H | L | A | | | | Demo | Local |
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | | 12 | 13 |
| | Cowpea | Seed treatment with Rhizobium and PSB | Utkal Manika | 4 | 1.0 | 32.5 | 59.2 | 54.6 | 57.4 | 48 | 19.5 | 9.4 | No Fruits /plant = 28.4 Length of pod- 16 cm. | No Fruit /plant = 17.2 Length of pod- 12.8 cm. |
| | Pumpkin | Improved Gu amal variety | Gua mal | 4 | 1.0 | - | 216.8 | 209.7 | 212.7 | 178.5 | 24.2 | 34.2 | No Fruits /plant = 2.2 Av. Fruit wt. =2.7 Kg | No Fruit /plant = 1.6 Av. Fruit wt. =2.1 Kg |

| Average cost of cultivation(Rs/Ha) | | Average gross return(Rs/Ha) | | Average net return/profit(Rs/Ha) | | BC Ratio (GR/GC) | | Add. Cost (Rs.) | Add. Return(Rs.) |
|------------------------------------|-------------|-----------------------------|-------------|----------------------------------|-------------|------------------|-------------|-----------------|------------------|
| Demo. | Local Check | Demo. | Local Check | Demo. | Local Check | Demo. | Local Check | | |
| 24700 | 23600 | 45920 | 38400 | 21220 | 14800 | 1.85 | 1.62 | 1100 | 6420 |
| 25500 | 20000 | 72000 | 57000 | 46500 | 37000 | 2.82 | 2.85 | 5500 | 9500 |

Technical Feed Back on demonstrated Technology

| Sl No. | Feed Back |
|--------|--|
| 1. | All the farmers appreciated the performance of the demonstration and ready to adopt the components. The net return was increased due to improved variety and RDF |

| | |
|----|---|
| | The irrigation is a major problem. |
| 2. | All the farmers appreciated the performance of the demonstration and ready to adopt the components. The net return was increased due to seed treatment. The availability of seed of the variety and irrigation is a major problem. |

Farmer's reaction on specific technology

| SI No. | Feedback |
|--------|---|
| 1 | Appreciated the performance of the demonstration, availability of seed and irrigation are the major problem |
| 2 | Appreciated the performance of the demonstration, irrigation in time is the major problem |

Enterprises

| Sl. No. | Crop/Enterprise | Thematic area | Technology Demonstrated | Season and year | No. of Units | | No. of farmers/ Demonstration | | | Reasons for shortfall |
|---------|-----------------|-------------------------------|---|-----------------|--------------|--------|-------------------------------|--------|-------|-----------------------|
| | | | | | Proposed | Actual | SC/ST | Others | Total | |
| 1 | Vermicomposting | Income generating enterprises | Vermiworms- <i>Eudrillus eugeniae</i> Cemented Pit (10'x3'x2') | Summer, 2010 | 3 | 3 | 3 | 0 | 3 | |
| 2 | Storage Bin | Income generating enterprises | One quintal capacity container made of tin | Summer, 2010 | 3 | 3 | 3 | 0 | 3 | |

Farming Situation

| Crop/Enterprise | Season | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Previous crop | Sowing date | Harvest date | Seasonal rainfall (mm) | No. of rainy days |
|-----------------|--------------|----------------------------------|-----------|----|----------------|---|---|---------------|---------------|--------------|------------------------|-------------------|
| | | | | | N | P | K | | | | | |
| Vermicomposting | Summer, 2010 | - | - | - | N | P | K | - | March IV Week | June IV Week | - | - |
| Storage Bin | Summer, 2010 | - | - | - | - | - | - | - | March IV Week | June IV Week | - | - |

| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Performance of FLD

| Sl. No | Crop/Enterprise | Technology Demonstrated | Variety | No. of Farmers | No. of Units | Dist. Productivity | Demo. Yield Qtl/ha | | | Yield of local Check Qtl/ha | Increase in yield (%) | Addi. Yield | Data on parameter in relation to technology demonstrated | |
|--------|-----------------|--|---------------------------------------|----------------|---------------|--------------------|--------------------|---|---|-----------------------------|-----------------------|-------------|--|-------|
| | | | | | | | H | L | A | | | | Demo | Local |
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | | 12 | 13 |
| 1 | Vermicomposting | Vermiworms- <i>Eudrillus eugeniae</i> Cemented Pit (10'x3'x2') | Vermiworms- <i>Eudrillus eugeniae</i> | 3 | 3 (10'x3'x2') | - | Continuing | | | | | | | |
| 2 | Storage Bin | One quintal capacity container made of tin | - | 3 | 3 | - | Continuing | | | | | | | |

| Average cost of cultivation(Rs/Ha) | | Average gross return(Rs/Ha) | | Average net return/profit(Rs/Ha) | | BC Ratio (GR/GC) | | Add. Cost (Rs.) | Add. Return(Rs.) |
|------------------------------------|-------------|-----------------------------|-------------|----------------------------------|-------------|------------------|-------------|-----------------|------------------|
| Demo. | Local Check | Demo. | Local Check | Demo. | Local Check | Demo. | Local Check | | |
| Continuing | | | | | | | | | |
| Continuing | | | | | | | | | |

Technical Feed Back on demonstrated Technology

| Sl No. | Feed Back |
|--------|------------|
| 1 | Continuing |
| 2 | Continuing |

Farmer's reaction on specific technology

| Sl No. | Feedback |
|--------|------------|
| 1 | Continuing |
| 2 | Continuing |

Special FLD

| S l. N o. | Crop | thematic area | Technology Demonstrated | Season and year | Area (ha) | | No of farmers/Demonstration | | | Reason for shortfall in achieve ment |
|--------------------|------------|---|---|-----------------|-----------|--------|--------------------------------|-------|-------|---|
| | | | | | proposed | actual | sc/st | other | total | |
| | Green Gram | Improved method of Green Gram Cultivation | Use of HYV -PDM-11, seed treatment with Captan, Rhizobium plant protection measures against sucking pests | Late Rabi | 5 | 5 | 8 | 2 | 10 | - |

Details of farming situation

| C r o p | Se a s o n | Farming situation (RF/Irrigated) | Soil type | PH | Status of soil | | | Prev i o u s c r o p | Sowing date | Harves t date | Seaso nal rainf all (mm) | No. of rainy days |
|---------------------------------------|------------------------|--|---------------------------|------------------------------|---|------------------------------------|--|--|-------------------------------|-----------------------------|--------------------------------------|-------------------------|
| | | | | | N | P | K | | | | | |
| Gr e e n G r a m | Late Rabi | Irrigated Medium land | San dy lo a m | 5. 6 T o 6. 3 | Lo w (19 1.4 to 209 .7) | Lo w (8. 2 to 8.9) | Me di u m (20 7.2 to 236 .1) | Ric e | 10.01. 2010 onwar ds | 17.03. 10 onwar ds | Nil | |

Performance of FLD

| S l. . | C r o p | Technol ogy Demonst | Vari ety | No. of Far | Area (ha.) | Dist. Produ ctivity | Demo. Yield No. of Cobs/ha | Yield of local | Inc rea se | Addi. Yield Qtl/h | Data on parameter in relation to technology demonstrated |
|--------------|------------------|---------------------------|-------------|------------------|---------------|---------------------------|-------------------------------|----------------------|------------------|-------------------------|--|
|--------------|------------------|---------------------------|-------------|------------------|---------------|---------------------------|-------------------------------|----------------------|------------------|-------------------------|--|

| No | pp | rated | | mers | | | H | L | A | Check Qtl./ha | in yield (%) | a. | Demo | Local |
|----|------------|--|------------|------|---|----------|-----|-----|------|---------------|--------------|-----|---|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | | 12 | 13 |
| 1 | Green Gram | Use of HYV - PDM-11, seed treatment with Captan, Rhizobium plant protection measures against sucking pests | HYV-PDM-11 | 10 | 5 | 3.82Q/Ha | 8.5 | 6.5 | 7.32 | 3.62 | 102.2 | 3.5 | Yield/ha=7.32qt No of pods/plant =72 | Yield/ha=3.62 No of pods/plant =34 |

Economic impact of FLD

| Average cost of cultivation (Rs/Ha) | | Average gross return (Rs/Ha) | | Average net return/profit (Rs/Ha) | | BC Ratio (GR/GC) | | Additional Cost (Rs) | Additional Return (Rs) |
|-------------------------------------|-------------|------------------------------|-------------|-----------------------------------|-------------|------------------|-------------|----------------------|------------------------|
| Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | | |
| 12,000 | 9,000 | 36,600 | 18,100 | 24,600 | 9,000 | 1:3.05 | 1:2.01 | 3000 | 15600 |

Technical Feed Back on demonstrated Technology

| Sl No. | Feed Back |
|--------|--|
| 1. | All the farmers appreciated the performance of the demonstration and ready to adopt the components. The net return was increased due to the variety. |

Farmer's reaction on specific technology

| Sl No. | Feedback |
|--------|--|
| 1 | Appreciated the performance of the variety, availability of seed and irrigation in time are the major problem. |

| S l N o . | Cro p | them atic area | Technology Demonstrated | Season and year | Area (ha) | | No of farmers/Demonstration | | | Reason for shortfa ll in achie vement |
|-----------------------|-----------------------|----------------------------------|---|--------------------|--------------|--------|--------------------------------|-------|-------|--|
| | | | | | propose d | actual | sc/st | other | total | |
| 2 | Gr ou nd nut | INM in Ground nut | Application of (Rizobium, Azospirilum, PSB, Zypsum, Boron) | Summer | 5 | 5 | 8 | 2 | 10 | - |

Details of farming situation

| C ro p | Se as on | Farming situation (RF/Irrigate d) | Soil type | PH | Status of soil | | | Prev ious crop | Sowing date | Harves t date | Seaso nal rainf all (mm) | No. of rainy days |
|-----------------------|----------------|--|-----------------------|------------------------------|---|------------------------------------|---|----------------------|----------------|------------------|--------------------------------------|-------------------------|
| | | | | | N | P | K | | | | | |
| Gr ou nd nut | Sum mer | Irrigated Medium land | San dy loa m | 5. 6 T o 6. 3 | Lo w (19 1.4 to 209 .7) | Lo w (8. 2 to 8.9) | Me diu m (20 to 236 .1) | Ric e | | | Nil | |

Performance of FLD

| Sl. No | Crop | Technology Demonstrated | Variety | No. of Farmers | Area (ha.) | Dist. Productivity | Demo. Yield No. of Cobs/ha | | | Yield of local Check Qtl./ha | Increase in yield (%) | Addi. Yield Qtl/ha. | Data on parameter in relation to technology demonstrated | |
|--------|-----------|---|---------|----------------|------------|--------------------|----------------------------|-------|-------|------------------------------|-----------------------|---------------------|--|--------------------------------------|
| | | | | | | | H | L | A | | | | Demo | Local |
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | | 12 | 13 |
| 2 | Groundnut | Application of (Rizobium, Azospirillum, PSB, Zypsum, Boron) | | 10 | 5 | 20.50 | 25.69 | 22.10 | 24.39 | 17.76 | 37.33 | 6.63 | Yield/ha=24.39 No of pods/plant = | Yield/ha=17.76 No of pods/plant = |

Economic impact of FLD

| Average cost of cultivation (Rs/Ha) | | Average gross return (Rs/Ha) | | Average net return/profit (Rs/Ha) | | BC Ratio (GR/GC) | | Additional Cost (Rs) | Additional Return (Rs) |
|-------------------------------------|-------------|------------------------------|-------------|-----------------------------------|-------------|------------------|-------------|----------------------|------------------------|
| Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | Demonstration | Local Check | | |
| 17,200 | 15,500 | 48,780 | 35,520 | 31580 | 20020 | 2.8 | 2.2 | 1700 | 11560 |

Technical Feed Back on demonstrated Technology

| Sl No. | Feed Back |
|--------|--|
| 1. | All the farmers appreciated the performance of the demonstration and ready to adopt the components. The net return was increased due to the intervention |

Farmer's reaction on specific technology

| Sl No. | Feedback |
|--------|--|
| 1 | Appreciated the performance of the variety, availability of seed and irrigation in time are the major problem. |

| Name of KVK | Category | Training Type | Theme code | Sub-theme | No. of Courses (Targeted) | No. of Courses (Achieved) | Duration (Days) | Participants | | | | | |
|----------------|----------|---------------|------------|---|---------------------------|---------------------------|-----------------|--------------|----|----|----|--------|----|
| | | | | | | | | SC | | ST | | Others | |
| | | | | | | | | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Malkangiri | | | | | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Fish harvest and processing technology | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Fry and fingerling rearing | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Small scale processing | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Post Harvest Technology | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Tailoring and Stitching | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Rural Crafts | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Others (Irrigation System) | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Others (Flower Production) | | | | | | | | | |
| KVK Malkangiri | RY | ONC | RYH | Others (Please specify) | | | | | | | | | |
| KVK Malkangiri | IS | ONC | EXP | Productivity enhancement in field crops | | | | | | | | | |
| KVK Malkangiri | IS | ONC | EXP | Integrated Pest Management | 1 | 1 | 2 | 3 | 1 | 6 | - | - | - |
| KVK Malkangiri | IS | ONC | EXP | Integrated Nutrient management | | | | | | | | | |
| KVK Malkangiri | IS | ONC | EXP | Rejuvenation of old orchards | | | | | | | | | |
| KVK Malkangiri | IS | ONC | EXP | Protected cultivation technology | | | | | | | | | |
| KVK Malkangiri | IS | ONC | EXP | Formation and Management of SHGs | 1 | 1 | 2 | 3 | 2 | 5 | | 1 | - |

| Name of KVK | Category | Training Type | Theme code | Sub-theme | No. of Courses (Targeted) | No. of Courses (Achieved) | Duration (Days) | Participants | | | | | |
|----------------|----------|---------------|------------|--|---------------------------|---------------------------|-----------------|--------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | SC | | ST | | Others | |
| | | | | | | | | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| ri | | | | | | | | | | | | | |
| KVK Malkangiri | FW | OFC | SFM | Soil and Water Conservation | | | | | | | | | |
| KVK Malkangiri | FW | OFC | SFM | Integrated Nutrient Management | | | | | | | | | |
| KVK Malkangiri | FW | OFC | SFM | Production and use of organic inputs | | | | | | | | | |
| KVK Malkangiri | FW | OFC | SFM | Management of Problematic soils | | | | | | | | | |
| KVK Malkangiri | FW | OFC | SFM | Micro nutrient deficiency in crops | | | | | | | | | |
| KVK Malkangiri | FW | OFC | SFM | Nutrient Use Efficiency | | | | | | | | | |
| KVK Malkangiri | FW | OFC | SFM | Soil and Water Testing | | | | | | | | | |
| KVK Malkangiri | FW | OFC | LP M | Dairy Management | | | | | | | | | |
| KVK Malkangiri | FW | OFC | LP M | Poultry Management | | | | | | | | | |
| KVK Malkangiri | FW | OFC | LP M | Piggery Management | | | | | | | | | |
| KVK Malkangiri | FW | OFC | LP M | Rabbit Management | | | | | | | | | |
| KVK Malkangiri | FW | OFC | LP M | Disease Management | | | | | | | | | |
| KVK Malkangiri | FW | OFC | LP M | Feed management | | | | | | | | | |
| KVK Malkangiri | FW | OFC | WO E | Household food security by kitchen gardening and nutrition gardening | 1 | 1 | 1 | - | - | 20 | 20 | - | - |

| Name of KVK | Category | Training Type | Theme code | Sub-theme | No. of Courses (Targeted) | No. of Courses (Achieved) | Duration (Days) | Participants | | | | | |
|----------------|----------|---------------|------------|-----------------------------------|---------------------------|---------------------------|-----------------|--------------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | SC | | ST | | Others | |
| | | | | | | | | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| KVK Malkangiri | | | | and use of organic inputs | | | | | | | | | |
| KVK Malkangiri | IS | OFC | EXP | Gender mainstreaming through SHGs | | | | | | | | | |
| KVK Malkangiri | IS | OFC | EXP | Others (Please specify) | | | | | | | | | |
| KVK Malkangiri | | | | | | | | | | | | | |
| KVK Malkangiri | | | | | | | | | | | | | |
| KVK Malkangiri | | | | | | | | | | | | | |

| Date | Title | Duration (Days) | Participants | S.C | | S.T | | Others | |
|-------------|---|-----------------|--------------|-----|---|-----|---|--------|---|
| | | | | M | F | M | F | M | F |
| 15 June 09 | Layout & Management of Orchards | 1 | 25 | | | 3 | | 22 | |
| 17 Jul. 09 | Production & Management technique in Cashew nut. | 1 | 25 | | | 19 | 6 | | |
| 23 Jul. 09 | Production of seedlings in vegetables. | 1 | 10 | | | 6 | | 4 | |
| 26 Aug. 09 | Cultivation techniques of Banana | 2 | 25 | 25 | | | | | |
| 29 Aug. 09 | Post harvest technology and value addition in fruits. | 2 | 10 | 10 | | | | | |
| 14 Sept. 09 | Production and management | 2 | 25 | | | 17 | 8 | | |

| | | | | | | | | | |
|---------------|---|---|----|----|----|----|----|--|--|
| | technology in Chili | | | | | | | | |
| 5 Sept. 09 | Production and management practices in Rice based cropping system. | 2 | 25 | 21 | 4 | | | | |
| 23-24 Oct. 09 | Nursery Management in vegetable crops | 2 | 40 | | | 23 | 17 | | |
| 11-12 Nov. 09 | Mushroom cultivation | 2 | 25 | | 25 | | | | |
| 17-18 Nov.09 | Preparation and preservation of tomato sauce | 2 | 25 | | 25 | | | | |
| 17.12.09 | Preservation and preparation of pickles from cauliflower, cabbage, carrot, pea and bean | 1 | 25 | | 25 | | | | |
| 18-19.01.10 | Integrated pest management in green gram | 2 | 25 | | | 15 | 10 | | |
| 23.01.10 | Household food security by kitchen gardening and nutrition gardening | 1 | 40 | | | 20 | 20 | | |
| 27.01.10 | Pointed gourd cultivation | 1 | 20 | | | 20 | | | |
| 28-29.01.10 | Integrated weed management in rice and green gram | 2 | 25 | | | 15 | 10 | | |
| 05.02.10 | Preservation | 7 | 10 | | 4 | | 6 | | |

| | | | | | | | | | |
|-----------------|---|---|----|----|---|----|---|---|---|
| to 11.02.10 | of fruits and vegetable | | | | | | | | |
| 21- 22.02.10 | Organic farming for sustainable crop production | 2 | 15 | 5 | 0 | 4 | 0 | 6 | 0 |
| 23- 24.02.10 | Preparation of spray fluids as well as safe and judicious use of pesticide | 2 | 25 | 12 | 0 | 13 | 0 | 0 | 0 |
| 25- 26.02.10 | Cultivation of off season vegetables | 2 | 20 | 6 | 0 | 14 | | | |
| 15- 16.03.10 | Formation and management of SHG | 2 | 10 | 4 | 3 | 2 | 1 | | |
| 20- 21.03.10 | Integrated pest management in Kharif vegetable | 2 | 10 | 3 | 2 | 5 | | | |
| 22- 24.03.10 | Protected cultivation of capsicum, cauliflower and off season tomato | 3 | 10 | | | 10 | | | |
| 25- 27.03.10 | Seed production of rice, green gram and maize | 3 | 10 | 3 | | 7 | | | |

Extension activities:

| Sl.No. | No. | Beneficiary |
|-----------------|-----|-------------|
| i. Farmers Fair | | |
| ii. Kissan Mela | 1 | 150 |
| iii. Exhibition | 2 | 1100 |
| iv. Field days | | |
| v. Field days | | |

| | | |
|-------------------------------------|-----|----------------------|
| Vi Special day celebration | 1 | 25 |
| vii Radio talk | 4 | Can not be estimated |
| viii Television talk | 10 | Can not be estimated |
| Ix Technical Report | 6 | 600 |
| x Scientists visit to farmers field | 138 | 358 |
| Xi Kissan Gostthi | - | - |
| xii. Farmers visit to K.V.K. | 73 | 171 |
| xiii. Diagnostic visit | 12 | 158 |
| xiv Animal health camp | - | - |
| xv. Farmers club meeting | - | - |
| xvi SHG conversion meeting | - | - |
| xvii Ex-trainees sammelan | - | - |
| xviii Film show | 20 | 620 |
| xix. Popular article | - | - |
| xx. Group meeting | 25 | 200 |
| xxi. News paper coverage | - | - |
| xxii. Any other | | |
| Total | 292 | 3062 |

3.5 Production and supply of Technological products

SEED MATERIALS

| Category | Crop | Variety | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|---------------------|------|------------|-----------------|-------------|----------------------------|
| CEREALS | Rice | SWARNA | 10.5 | 17,850 | 33 |
| | | GAJAPATI | 8.49 | 14,433 | 30 |
| | | PRATIKSHYA | 3.12 | 5304 | 10 |
| | | | | | |
| | | | | | |
| OILSEEDS | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 1 PULSES | | | | | |
| | | | | | |
| | | | | | |
| VEGETABLES | | | | | |
| | | | | | |
| | | | | | |
| FLOWER CROPS | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | | | |
|-------------------------|--|--|--|--|--|
| | | | | | |
| OTHERS (Specify) | | | | | |
| | | | | | |

SUMMARY

| Sl. No. | Crop | Quantity (qtl.) | Value (Rs.) | Provided to No. of Farmers |
|--------------|--------------|-----------------|--------------|----------------------------|
| 1 | CEREALS | 22.11 | 37587 | 73 |
| 2 | OILSEEDS | | | |
| 3 | PULSES | | | |
| 4 | VEGETABLES | | | |
| 5 | FLOWER CROPS | | | |
| 6 | OTHERS | | | |
| TOTAL | | 22.11 | 37587 | 73 |

PLANTING MATERIALS

| Sl. No. | Crop | Variety | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|-------------------------|-----------|-------------------|-----------------|-------------|----------------------------|
| FRUITS | Papaya | Coorg Honeydue | 390 | 1170 | 39 |
| | | | | | |
| SPICES | | | | | |
| | | | | | |
| VEGETABLES | Drumstick | PKM-1 | 410 | 2050 | 42 |
| | | | | | |
| FOREST SPECIES | | | | | |
| | | | | | |
| ORNAMENTAL CROPS | | | | | |
| | | | | | |
| PLANTATION CROPS | | | | | |
| | | | | | |
| Others (specify) | Chillers | Chiller | 590 | 1180 | 59 |
| | | | | | |
| | | | | | |

SUMMARY

| Sl. No. | Crop | Quantity (Nos.) | Value (Rs.) | Provided to No. of Farmers |
|---------|------------------|-----------------|-------------|----------------------------|
| 1 | FRUITS | 390 | 1170 | 39 |
| 2 | VEGETABLES | 410 | 2050 | 42 |
| 3 | SPICES | | | |
| 4 | FOREST SPECIES | | | |
| 5 | ORNAMENTAL CROPS | | | |
| 6 | PLANTATION CROPS | | | |
| 7 | OTHERS | 590 | 1180 | 59 |
| | TOTAL | 1390 | 4400 | 140 |

BIO PRODUCTS : NIL

| Sl. No. | Product Name | Species | Quantity | | Value (Rs.) | Provided to No. of Farmers |
|-----------------------|--------------|---------|----------|------|-------------|----------------------------|
| | | | No | (kg) | | |
| BIOAGENTS | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| BIOFERTILIZERS | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| BIO PESTICIDES | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |

SUMMARY

| Sl. No. | Product Name | Species | Quantity | | Value (Rs.) | Provided to No. of Farmers |
|---------|-----------------|---------|----------|------|-------------|----------------------------|
| | | | No | (kg) | | |
| 1 | BIOAGENTS | | | | | |
| 2 | BIO FERTILIZERS | | | | | |
| 3 | BIO PESTICIDE | | | | | |
| | TOTAL | | | | | |

LIVESTOCK : NIL

| Sl. No. | Type | Breed | Quantity | | Value (Rs.) | Provided to No. of Farmers |
|---------|------|-------|----------|-----|-------------|----------------------------|
| | | | (Nos) | Kgs | | |

| | | | | | | |
|-------------------------|--|--|--|--|--|--|
| Cattle | | | | | | |
| | | | | | | |
| | | | | | | |
| Sheep and Goat | | | | | | |
| | | | | | | |
| | | | | | | |
| Poultry | | | | | | |
| | | | | | | |
| | | | | | | |
| Fisheries | | | | | | |
| | | | | | | |
| | | | | | | |
| Others (Specify) | | | | | | |
| | | | | | | |
| | | | | | | |

SUMMARY

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

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

(A) KVK News Letter (Date of start, Periodicity, number of copies distributed etc.-

KVK News Letter ((,etc.)

| KVK Name | Date of start | Periodicity | Number of copies printed | Number of copies distributed |
|------------|---------------|-------------|--------------------------|------------------------------|
| Malkangiri | 31.03.2010 | Half yearly | 500 | - |

(B) Literature developed/published

| Item | Title | Authors name | Number |
|-------------------|-------|--------------|--------|
| Research papers | - | - | - |
| Technical reports | | | |

| | | | |
|---------------------------------|--|---|-------------|
| News letters | Malyabantika | Sri Sanjay Kunar Mohanty, Miss Sunita Dandsena Sri Santosh Kumar Samantaray | 500 |
| Technical bulletins | Pointed Gourd cultivation | Miss Sunita Dandasena, Sri Sanjay Kumar Mohanty | 500 |
| | 'SRI' method of Rice cultivation | Miss Sunita Dandasena, Sri Sanjay Kumar Mohanty | 500 |
| | IPM in tomato | Sri Sanjay Kumar Mohanty, Miss Sunita Dandasena | 500 |
| | IPM in Cabbage | Miss Sunita Dandasena, Sri Sanjay Kumar Mohanty | 500 |
| | Care of pregnant woman and newly born baby | Mrs Bidyutlata Mallick, Sri Sanjay Kumar Mohanty | 500 |
| | Preparation of pickles (Mango, Drumstick, Tamarind, Ber) | Mrs Bidyutlata Mallick, Sri Sanjay Kumar Mohanty | 500 |
| Popular articles | - | - | - |
| Extension literature (Leaflets) | - | - | - |
| | - | - | - |
| Others (Pl. specify) | - | - | - |
| TOTAL | | | 3500 |

(C) Details of Electronic Media Produced : NIL

| S. No. | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number |
|--------|---|------------------------|--------|
|--------|---|------------------------|--------|

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

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

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

- Identification of courses for farmers/farm women PRA, Group discussion
- Rural Youth
- Inservice personnel

3.11 Field activities

- i. Number of villages adopted : Five
- ii. No. of farm families selected : 100
- iii. No. of survey/PRA conducted : Five

3.12. Activities of Soil and Water Testing Laboratory-NIL

Status of establishment of Lab :

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

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

3. Details of samples analyzed so far :

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

4.0 IMPACT

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

| Name of specific technology/skill transferred | No. of participants | % of adoption | Change in income (Rs.) | |
|---|---------------------|---------------|------------------------|------------------|
| | | | Before (Rs./Unit) | After (Rs./Unit) |
| Seed treatment with bio fertilizer in Cowpea | 4 | 67 % | 11900 / ha | 17220 / ha |
| INM in Pumpkin | 4 | 67 % | 41900 / ha | 54080 / ha |
| Cultivation of YMV resistant Variety of Okra , Arka Anamika | 4 | 73 % | 11900 / ha | 18280 / ha |
| Control of leaf webber & pod | 5 | 85 % | 8000 / ha | 15000 / ha |

| | | | | |
|--|---|------|------------|------------|
| borer in Sesamum | | | | |
| Cultivation of wilt resistant HYV of Brinjal Blue star | 4 | 86 % | 44260 / ha | 63500 / ha |
| Introduction of new HYV of Rice Pratikshya | 4 | 91 % | 13000 / ha | 16800 / ha |
| IPM in rice | 4 | 72.5 | 9100 /ha | 12400 /ha |

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

| Crop | Problem | Technology | No. of beneficiaries | Farmer' reaction | Spread | | |
|---------|-----------|-----------------------------|----------------------|------------------|---------|---------------|----------|
| | | | | | Village | No. of farmer | Area(ha) |
| Paddy | Low yield | Use of HYV-Pratikshya | 5 | Accepted | 8 | 29 | 8 |
| Maize | Low Yield | INM in hybrid Maize P-30R77 | 5 | Accepted | 6 | 23 | 10 |
| Pumpkin | Low yield | Improved Gu amal variety | 4 | Accepted | 6 | 20 | 6 |

Economic impact

| Crop | Yield qt/ha | | % increase | Av.Cost Rs./Ha | | Gross return Rs/ha | | Net Return Rs/ha | | B.C. Ration | |
|---------|-------------|-------|------------|----------------|--------|--------------------|--------|------------------|--------|-------------|------|
| | Local | Demo | | Local | Demo | Local | Demo | Local | Demo | Local | Demo |
| Paddy | 41.9 | 49.6 | 18.37 | 23,000 | 48,608 | 41,062 | 48,608 | 18,062 | 24,608 | 1.78 | 2.02 |
| Maize | 25.2 | 40.8 | 41.6 | 19500 | 22700 | 36000 | 51000 | 16500 | 28300 | 1.80 | 2.24 |
| Pumpkin | 178.5 | 212.7 | 24.2 | 20000 | 25500 | 57000 | 72000 | 37000 | 46500 | 2.85 | 2.82 |

LINKAGES

Functional linkage with different organizations

| Name of organization | Nature of linkage |
|--|---|
| Department of Agriculture, Govt. of Orissa | Joint diagnostic survey, preparation of key message, conducting training of farmers and line department officials, demonstrations, involvement as resource persons in KVK training programmes & |

| | |
|--|---|
| | their training. |
| Department of Horticulture, Govt. of Orissa | Training and exposure visits (to KVK and KVK adopted villages) of officials, involvement as resource persons in KVK training programmes |
| Animal Resource Development Department, Govt. of Orissa | Sharing of information & participation in meeting |
| Department of Soil Conservation, Govt. of Orissa | Exchange of information ,participation in meeting . |
| Department of Fisheries, Govt. of Orissa | Exchange of information and involvement in planning process |
| N.G.Os. | Imparting trainings, village adoption programmes, Involvement as resource persons in their training programmes. |
| All India Radio, Jeypore | Radio talks, participation in farm and home programmes, question-answers forum and participation in phone-in-please programme, broadcasting of KVK activities |
| Other KVKs of State | Exchange of technology ,literatures, seeds and expertise . |

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

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

5.3 Details of linkage with ATMA

- a) Is ATMA implemented in your district ?-Yes/No-: **yes**
(This year in the month of september,07 ATMA was lunched in this district.)

| S. No. | Programme | Nature of linkage | Remarks |
|--------|--------------------------|---|---------|
| 1 | Training | Involve as a resource person,PRA survey | |
| 2 | Launching of Action plan | DPD(Tech.) | |

5.4 Give details of programmes implemented under National Horticultural Mission

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

| | | | |
|---|----------|------------------------------|----|
| 1 | Training | Involve as a resource person | No |
| | | | |

5.5 Nature of linkage with National Fisheries Development Board

| S. No. | Programme | Nature of linkage | Remarks |
|--------|-----------|-------------------|---------|
| 1 | | No | No |
| | | | |

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm) : NIL

| Sl. No. | Demo Unit | Year of estt. | Area | Details of production | | | Amount (Rs.) | | Remarks |
|---------|-----------|---------------|------|-----------------------|---------|------|----------------|--------------|---------|
| | | | | Variety | Produce | Qty. | Cost of inputs | Gross income | |
| | | | | | | | | | |

6.2 Performance of instructional farm (Crops) including seed production

| Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|---------------------------|----------------|-----------------|-----------|-----------------------|-----------------|------------|----------------|--------------|---------|
| | | | | Variety | Type of Produce | Qty.(Qtl.) | Cost of inputs | Gross income | |
| Cereals (Paddy) | 23.7.09 | 7.12.09 | 0.8 | Swarna | SD | 10.5 | 4731 | 17850 | |
| | 24.7.09 | to | 0.52 | Gajapati | | 8.49 | 3075 | 14433 | |
| | 24.7.09 | 16.12.09 | 0.28 | Pratiksha | | 3.12 | 1656 | 5304 | |
| Pulses | | | | | | | | | |
| Oilseeds (Groundnut) | | | | | | | | | |
| (Sesamum) | | | | | | | | | |
| mustard | | | | | | | | | |
| Fibers | | | | | | | | | |
| Spices & Plantation crops | | | | | | | | | |
| Mango | | | | | | | | | |
| Floriculture | | | | | | | | | |
| Fruits | | | | | | | | | |
| Vegetables | | | | | | | | | |
| Others (specify) | | | | | | | | | |
| | | | | | | | | | |

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

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

6.4 Performance of instructional farm (livestock and fisheries production) - NIL

| Sl. No | Name of the animal / bird / aquatics | Details of production | | | Amount (Rs.) | | Remarks |
|--------|--------------------------------------|-----------------------|-----------------|------|----------------|--------------|---------|
| | | Breed | Type of Produce | Qty. | Cost of inputs | Gross income | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

6.5 Utilization of hostel facilities : NIL

Accommodation available (No. of beds) :

| Months | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|--------|------------------------|----------------------------|--------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |

FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

| Bank account | Name of the bank | Location | Account Number |
|---------------------|---------------------|-------------|----------------|
| With Host Institute | State Bank of India | Bhubaneswar | |
| With KVK | State Bank of India | Malkangiri | 11384457399 |

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

| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1 st April 2007 |
|----------------------|------------------|--------------|-------------|--------------|--|
| | Kharif 2008 | Rabi 2008-09 | Kharif 2008 | Rabi 2008-09 | |
| Inputs | - | Nil | - | 0.08 | |
| Extension activities | | | | 0.02 | |
| TA/DA/POL etc. | | | | - | |
| TOTAL | | | | 0.1 | |

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

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

7.4 Utilization of funds under FLD on Cotton (Rs. In Lakhs) :NIL

| Item | Released by ICAR | | Expenditure | | Unspent balance as on 1 st April 2007 |
|----------------------|------------------|---------------|-------------|--------------|--|
| | Kharif 2006 | Rabi 2006 -07 | Kharif 2006 | Rabi 2006-07 | |
| Inputs | | | | | |
| Extension activities | | | | | |
| TA/DA/POL etc. | | | | | |
| TOTAL | | | | | |

7.5 Utilization of KVK funds during the year 2006-07

| S. No. | Particulars | Sanctioned by ICAR | Released by Ouat | Expenditure |
|---------------------------------------|--|--------------------|------------------|-----------------|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 400,000 | 400,000 | 395349 |
| 2 | Traveling allowances | 50,000 | 50,000 | 40,348 |
| 3 | Contingencies | 150,000 | 150,000 | 150,000 |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | | | |
| B | POL, repair of vehicles, tractor and equipments | | | |
| C | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | | | |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | | |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | | | |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | | | |
| G | Training of extension functionaries | | | |
| H | Maintenance of buildings | | | |
| I | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| J | Library | 10,000 | 10,000 | 9,436 |
| TOTAL (A) | | 610,000 | 610,000 | 59,5133 |
| B. Non-Recurring Contingencies | | | | |
| 1 | Works | 7,00,000 | 7,00,000 | 7,00,000 |
| 2 | Equipments including SWTL & Furniture | 75,000 | 75,000 | 74,351 |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | | | |
| 4 | Library (Purchase of assets like books & journals) | 10,000 | 10,000 | 10,000 |
| TOTAL (B) | | 7,85,000 | 7,85,000 | 7,84,351 |
| C. REVOLVING FUND | | | | |
| GRAND TOTAL (A+B+C) | | | | |

7.6 Utilization of KVK funds during the year 2007-08

For the year 2007-08 (up to March,08)

| S. No. | Particulars | Sanctioned by ICAR | Released by OUAT | Expenditure |
|---------------------------------------|--|---------------------------|-------------------------|--------------------|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 15.00,000 | 907432 | 907432 |
| 2 | Traveling allowances | 48,000 | 48,000 | 48,000 |
| 3 | Contingencies | | | |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | | | |
| B | POL, repair of vehicles, tractor and equipments | | | |
| C | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | | | |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | | |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | | | |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | | | |
| G | Training of extension functionaries | | | |
| H | Maintenance of buildings | | | |
| I | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| J | Library | | | |
| TOTAL (A) | | 2098000 | 1404934 | 1404934 |
| B. Non-Recurring Contingencies | | | | |
| 1 | Works | 10.00,000 | 10.00,000 | 10.00,000 |
| 2 | Equipments including SWTL & Furniture | 95,000 | 85,899 | 84,900 |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | - | - | - |
| 4 | Library (Purchase of assets like books & journals) | - | - | - |
| TOTAL (B) | | 10,95,000 | 10,85,899 | 10,84,900 |
| C. REVOLVING FUND | | 50,000 | 50,000 | 30,015 |
| GRAND TOTAL (A+B+C) | | 3243000 | 2540833 | 2519849 |

Utilization of KVK funds during the year 2008 - 09

| S. No. | Particulars | Sanctioned by ICAR | Released by OUAT | Expenditure |
|---------------------------------------|--|--------------------|------------------|----------------|
| A. Recurring Contingencies | | | | |
| 1 | Pay & Allowances | 200000 | 1030503 | 1030503 |
| 2 | Traveling allowances | 70000 | 70000 | 23337 |
| 3 | Contingencies | 706850 | 706850 | 356288 |
| A | Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines) | | | |
| B | POL, repair of vehicles, tractor and equipments | | 236850 | 133451 |
| C | Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained) | | | |
| D | Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training) | | | |
| E | Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year) | | | |
| F | On farm testing (on need based, location specific and newly generated information in the major production systems of the area) | | | |
| G | Training of extension functionaries | | | |
| H | Maintenance of buildings | | 400000 | 199500 |
| I | Establishment of Soil, Plant & Water Testing Laboratory | | | |
| J | Library | | | |
| TOTAL (A) | | 2776850 | 1807353 | 1410128 |
| B. Non-Recurring Contingencies | | | | |
| 1 | Works | 2200000 | 2200000 | 2200000 |
| 2 | Equipments including SWTL & Furniture | 50,000 | 50,000 | 49800 |
| 3 | Vehicle (Four wheeler/Two wheeler, please specify) | | | |
| 4 | Library (Purchase of assets like books & journals) | | | |
| TOTAL (B) | | 2250000 | 2250000 | 2249800 |
| C. REVOLVING FUND | | | | |
| GRAND TOTAL (A+B+C) | | 2250000 | 2250000 | 2249800 |

7.5 Status of revolving fund (Rs. in lakhs) for 2 years

| Year | Opening balance as on 1 st April | Income during the year | Expenditure during the year | Net balance in hand as on 1 st April of each year |
|--------------------------|---|------------------------|-----------------------------|--|
| April 2007 to March 2008 | 50,000 | 34,910 | Rs.30,015 | Rs 54,895 |
| April 2008 to March 2009 | 54,895 | 41,875 | 19,328 | 77,442 |

Please include information which has not been reflected above (write in detail). - No

8.1 Constraints :

- (a) Administrative :
- o Three numbers of SMS
 - o Two Programme Asst.

- One farm manager

- One SO

yet to be appointed

(b) Technical : Online sending of reports sometimes creates difficulties

(c) Infrastructure: Administrative building, staff quarters, farmer's hostel, fencing of instructional farm, boring of tube wells to be completed before onset of monsoon, otherwise seed production programme under revolving fund can not be taken up. If directed to take up seed production under revolving fund, there is high risk of theft and grazing away by the stray cattle.

(Programme Coordinator)

K.V.K.,Malkangiri