

**ANNUAL PROGRESS REPORT
OF KVK NAYAGARH
(ZONE VII)**

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Instructions for Filling the Format

- 1. Do not change/modify/ delete any column of any of the table. However, additional rows can be created, if required**
- 2. Do not merge columns, rows.**
- 3. Please repeat the name of KVK in each table in the column “Name of KVK”**
- 4. Do not fill the non-numerical values in numeric field**
- 5. Do not repeat the unit while reporting data as it is already mentioned in the heading row**
- 6. Strictly fill the data in desired unit only. If it is reported in other unit, convert it in the desired unit**
- 7. Please mention only standard English names of crops (Do not mention Urd, Arhar, Til, Kulthi, Moong, Bajra, etc.)**
- 8. Additional relevant information may be provided at the end of Format by creating heading “Additional Information”**
- 9. Also read the instructions mentioned just below the table**
- 10. Your suggestions for improvement in the format for your simplicity as well as data compilation may be given at the end of the format**
- 11. Do not press any Enter Key in any of the columns while making entry in the columns of the table. Use only arrow key /Tab key/ mouse pointer while movement from one column/row to another.**
- 12. Gray colour cells in summary table need not to be filled.**

REPORTING PERIOD – April, 2010 to March, 2011

Summary of achievements during the reporting period

| KVK Name | Activity | Target | | Achievement | | Total value of resource generated/Fund received from diff. sources (Rs.) |
|----------|--|----------------------|------------------------------|----------------------|------------------------------|--|
| | | Number of activity | No. of farmers/beneficiaries | Number of activity | No. of farmers/beneficiaries | |
| Nayagarh | OFTs | 25 | 150 | 23 | 139 | |
| | FLDs – Oilseeds (activity in ha) | 5 | 15 | 5 | 17 | |
| | FLDs – Pulses (activity in ha) | | | | | |
| | FLDs – Cotton (activity in ha) | | | | | |
| | FLDs – Other than Oilseed and pulse crops(activity in ha) | 32.7 | 172 | 35.6 | 179 | |
| | FLDs – Other than Crops (activity in no. of Unit/Enterprise) | 15 units 100 beds | 35 | 16 units 100 beds | 36 | |
| | Training-Farmers and farm women | 64 | 1600 | 64 | 1600 | |
| | Training-Rural youths | 18 | 360 | 18 | 355 | |
| | Training- Extension functionaries | 20 | 300 | 17 | 265 | |
| | Extension Activities | | | | | |
| | Farmers Fair | 2 | 250 | 2 | 250 | |
| | Kissan Mela | 2 | 200 | 1 | 153 | |
| | Exhibition | 2 | 400 | 3 | 400 | |
| | Field days | 12 | 600 | 8 | 410 | |
| | Special day celebration | 2 | 100 | 2 | 100 | |
| | Radio talk | | | | | |
| | Television talk | 20 | | 20 | | |
| | Technical Report | 5 | | 5 | | |
| | Scientists visit to farmers' field | 72 | 196 | 72 | 196 | |
| | Kissan Gosthi | | | | | |
| | Farmers visit to K.V.K. | 380 | 380 | 385 | 385 | |
| | Diagnostic visit | 86 | 225 | 86 | 225 | |
| | Animal health camp | 2 | 268 | 2 | 268 | |
| | No. of farmers club formed | 30 | 300 | 30 | 300 | |
| | Farmers' club meeting held | 2 | 45 | 2 | 45 | |
| | SHG convention | 4 | 100 | 4 | 100 | |
| | Ex-trainees sammelan | 2 | 100 | 2 | 100 | |
| | Film show | 60 | 2300 | 60 | 2389 | |
| | Group meeting | 4 | 100 | 10 | 210 | |
| | Newspaper coverage | 11 | | 6 | | |
| | Seed Production (Number of activity as seeds in quintal) | | | | | |
| | Planting material ((Number of activity as quantity of | | | | | |

| KVK Name | Activity | Target | | Achievement | | Total value of resource generated/Fund received from diff. sources (Rs.) |
|----------|--|--------------------|------------------------------|--------------------------------------|------------------------------|--|
| | | Number of activity | No. of farmers/beneficiaries | Number of activity | No. of farmers/beneficiaries | |
| | planting material in quintal) | | | | | |
| | Seedling Production (Number of activity as number of seedlings in numbers) | | | | | |
| | Sapling Production (Number of activity as number of sapling in numbers) | 11500 | 2000 | 11500 | 2000 | 43660/- |
| | Other Bio- products(Vermicompost) | 1 qtl | 20 | 14 qtls | 75 | 10650/- |
| | Livestock products(Vanaraja chicks) | 1500 | 400 | 1500 | 450 | 60000/- |
| | SAC Meeting (Date & no. of core/official members | | | 27.11.10 | 17 | |
| | Newsletters (no.) | 2 | 2000 | 2 | 2000 | |
| | Publication (Research papers, popular article) | 8 | 100 | 6 | 1000 | |
| | Convergence programmes / Sponsored programmes | | | 5 | 220 | |
| | KVK-ATMA Linkage programme (Number of activities) | | | 7 | 920 | |
| | Outreach of KVK in the District (No. of blocks, no. of villages) | | | No.of Blocks-8 No.of villages- 18 | | |
| | Soil sample tested | | | 65 | 65 | |
| | Water sample tested | | | 28 | 28 | |
| | KMA (No. of messages & beneficiaries) | | | 78 | 3100 | |

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) |
|--------------|-----------------------------|----------------------------|------------------------|------------------------|---------------------------|-----------------|---------------------|-----------------|----------------------|-----------------------------|
| Nayagarh | Programme Coordinator | Mrs. Shelly Dash | Programme Coordinator | M.A (Home Science) | Home Sc. | 15600-39100 | 36630 | 17.07.09 | Temporary | Others |
| Nayagarh | Subject Matter Specialist1 | Mr. Anil Kumar Swain | SMS (Fisheries) | M.F.Sc Fishery) | Fisheries | 15600-39100 | 19050 | 11.03.05 | Temporary | Others |
| Nayagarh | Subject Matter Specialist2 | Mr. Arjun Mohan Prusti | SMS (Plant Breeding) | M. Sc (Ag) | Plant Breeding | 15600-39100 | 17610 | 01.09.08 | Temporary | Others |
| Nayagarh | Subject Matter Specialist3 | Mr. Trinath Khandaitaray | SMS (Plant Protection) | M. Sc (Ag) | Agril. Entomology | 15600-39100 | 18320 | 20.07.09 | Temporary | Others |
| Nayagarh | Subject Matter Specialist4 | Mrs. Smitha G. Nair | SMS (Forestry) | M.Sc (Forestry) | Forestry | 15600-39100 | 16250 | 05.10.09 | Temporary | Others |
| Nayagarh | Subject Matter Specialist5 | Mr. Tribijayi Badjena | SMS (Agril. Extension) | M.Sc (Ag) Agril. Extn. | Agril. Extension | 15600-39100 | 15600 | 07.04.10 | Temporary | Others |
| Nayagarh | Subject Matter Specialist6 | | Vacant | | | | | | | |
| Nayagarh | Computer programmer | Mrs. Rosalin Praharaj | Pro. Asst. (Computer) | B. Sc (PGDCA, MCA) | Computer | 9300-34800 | 11010 | 10.03.06 | Temporary | Others |
| Nayagarh | Farm Manager | | Vacant | | | | | | | |
| Nayagarh | Programme Assistant | Mr. Bikaram Paramanik | Pro. Asst. (Forestry) | B.Sc (Forestry) | Forestry | 9300-34800 | 11010 | 16.10.06 | Temporary | Others |
| Nayagarh | Accountant / superintendent | Mr. Bhagirathi Sahoo | S. A | Graduation | Accounts | 9300-34800 | 11850 | 1.11.10 | Temporary | Others |
| Nayagarh | Stenographer | | Vacant | | | | | | Temporary | Others |
| Nayagarh | Driver | Mr. Rabi Narayan Mahapatra | Driver/Mechanic | Intermediate | NA | 3050-4590 | 3125 | 22.07.08 | Temporary | Others |
| Nayagarh | Driver | Mr. Jagannath Sahoo | Driver/Mechanic | Matric | NA | 3050-4590 | 3125 | 28.03.11 | Temporary | Others |
| Nayagarh | Supporting staff | Mr. Prasanna Martha | Peon/Watchman | ME | NA | 2550-3200 | 3125 | 28.03.11 | Temporary | Others |
| Nayagarh | Supporting staff | Mr. Gunanidhi Bauta | Peon/Watchman | ME | NA | 2550-3200 | 2610 | 19.12.07 | Temporary | Others |

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

| | | |
|------------------------------------|---|--|
| Agroclimatic Zone | : | East and Southeast Coastal Plain Zone |
| Latitude | : | 20° 54' N |
| Longitude | : | 85° 07' E |
| Altitude | : | 151 MSL |
| Geographical area of District (ha) | : | 394110 |
| C.D. Blocks | : | 8 (Nayagarh, Dasapalla, Ranpur, Khandapara, Gania, Bhapur, Nuagaon, Odagaon) |
| No.of villages | : | 1702 |
| Population(2001 census) | : | 864516 |
| Male | : | 446177(51.61%) |
| Female | : | 418339(48.39%) |
| ST | : | 50836(5.88%) |
| SC | : | 121409(14.04%) |
| Population Density | : | 222/Sq Km |
| Cultivated area (in 000 ha) | : | 134 |
| Cultivated highland(in 000 ha | : | 45 (34%) |
| Cultivated Medium land(in 000 ha | : | 49 (36%) |
| Cultivated Low land(in 000 ha | : | 40 (30%) |
| Total irrigated area (ha) | | |
| Kharif | : | 31826 |
| Rabi | : | 14605 |
| Soil type | : | Laterite, Alluvial, Red Soil and Mixed Red & black soil |
| Average annual rainfall (mm) | : | 1354.3mm |
| Cropping intensity (%) | : | 176 |
| Major crops grown | : | Rice, Sugarcane, Vegetables, Greengram and black gram |

Resources:-

Fertile agricultural land.

Suitable climate for the production of varieties of agricultural crops.

Sufficient water resources.

District, State and National level research and extension agro advisory offices are within in reach.

Good network of road transport connecting the district headquarters with villages.

Sugar mill in the heart of the district.

Availability of no. of rice mills and chuda mills.

Availability of no. of oil expellers.

Availability of Dal mills.

Opportunities:-

Irrigation Potential can be increased

Agricultural productivity can be enhanced through farm mechanisation.

Establishment of village mandies will provide better price to the farmers.

Nayagarh dal has a special affinity

Crop diversification for cash crops like sugarcane, oil seeds, Pulses, vegetables.

Development of storage facility like cold storage to stop distress sells and farmers will get better price.

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) |
|----------|--------------|------------------|------------|-------------------|------------|--|
| Nayagarh | Janisahi | 2007 | Dasapalla | 50 km | 950 | 850 |
| Nayagarh | Rampada | 2008 | Bhapur | 20km | 625 | 575 |
| Nayagarh | Mardarajpur | 2008 | Nayagarh | 25km | 700 | 658 |
| Nayagarh | Malatipur | 2009 | Nayagarh | 12km | 570 | 435 |
| Nayagarh | Badahamara | 2010 | Odagaon | 4km | 250 | 115 |

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

| KVK Name | THRUST AREA |
|--------------|--|
| KVK Nayagarh | Varietal substitution in paddy, particularly for rainfed upland and medium land types. |
| KVK Nayagarh | Crop diversification from paddy to pulse (Arhar), oilseed (Sunflower, ground nut) sugarcane and tuber crop based cropping systems. |
| KVK Nayagarh | Integrated nutrient management by incorporation of crop residues /forest litters, green manuring, improvised composting and balanced use of inorganic and biofertilisers. |
| KVK Nayagarh | Popularizing ecofriendly pesticides and biocontrol agents and IPM practices for borers in sugarcane and brinjal. |
| KVK Nayagarh | Revolutionizing fresh water fish farming by including freshwater prawn (Scampi) in Composite pisciculture system. |
| KVK Nayagarh | Empowerment of rural youth and SHGs through remunerative agro based enterprises like value addition of fruits and vegetables, mushroom production, bee keeping, floriculture ,poultry farming and nursery raising. |
| KVK Nayagarh | Rejuvenating mango and cashew orchards and developing Alternative Land Use system model. |
| KVK Nayagarh | Scientific method of fish production with freshwater prawn culture, integrated farming system research and stunted fingerlings & yearlings stocking. |
| KVK Nayagarh | Income generation from backyard poultry for economic upliftment. |
| KVK Nayagarh | Raising of fuelwood , timber and fodder yielding species to meet the local demand and production , value addition of minor forest produces. |
| KVK Nayagarh | Varietal substitution in paddy, particularly for rainfed upland and medium land types. |

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

| KVK Name | Problem identified | Methods of problem identification |
|----------|---|--|
| Nayagarh | PADDY : Low grain yield - poor nutrition- Heavy weed infestation-High grain loss - BPH & Stem Borer | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | MOONG : Low productivity – Little Nutrition- High storage loss – Pulse beetle | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | SUGARCANE : Increase in production cost – Closer spacing-High Seed requirement – Manual weeding-Low MC production – Poor N management- Incident of ESB & IB. | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | COLOCASIA : Increase in production cost – Manual weeding-Growth retardation Blight & Rot | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | TUBER CROPS : Deep rooted longer duration Yam - poor acceptance- less yield potential Sweet Potato – Poor acceptance, Slow multiplication rate | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | GROUNDNUT : Increased production cost – Manual weeding-Poor plant stand – Early stage wilting | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | SUNFLOWER : Low yield – Increased Chaffiness-pest & disease incidence | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | COCONUT : Fruit drop- Eriophyid mite attack-Low yield in local types | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | MANGO: Fruit drop- Mango hopper & Bark eating caterpillar | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | BRINJAL : Fruit and Shoot borer Incidence- Wilting | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | COLE CROPS: Tobacco caterpillar incidence- Low yield in local types | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | TOMATO: Low yielding local types | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | FOREST TREES : Untapped forest resources , Deforestation due to heavy demand on fuel wood, timber and fodder demand | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | FISHERY: Poor pond management- Predatory and weed fish- Adverse culture environment – High seed mortality-Improper stocking ratio and density-Poor feeding. | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |
| Nayagarh | OTHERS: Underutilization of orchard shade (cashew and mango)-Straw scarcity for mushroom production - Lack of income generating vocation for women- Poor land utilization and crop insurance in rainfed upland-Grain loss by house & field rats-Distress sell of mango & tomato-Malnutrition of women and children –Drudgery associated with rural housewives and women in agriculture. | PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting |

2. On Farm Testing

2.1 Information about OFT

| KVK name | Year/season | Problem diagnose | Category of technology (Assessment/Refinement) | Thematic Area | Crop/enterprise | Farming Situations | Title of OFT | No. of trials | Results (with parameter) | | Net Returns (Rs./ha) | | Recommendations |
|----------|--------------------|---|--|--------------------------------|-----------------|------------------------------|---|---------------|--------------------------|--------------|----------------------|--------|---|
| | | | | | | | | | Farmer practice T1 | Rec. Tech T2 | T1 | T2 | |
| Nayagarh | 2010-11/ Kharif | Low yield in paddy under semi deep low land situation due to use of low yielding local varieties. | Assessment | Varietal Evaluation | Paddy | Rainfed Low land | Assessment of paddy variety Uphar | 10 | 48.08 | 53.95 | 16580 | 21750 | Paddy variety Uphar may be sown under semi deep low land situation for better yield and profit |
| Nayagarh | 2010-11 Kharif | Low yield in paddy due to flood water submergence | Assessment | Varietal Evaluation | Paddy | Rainfed Low land | Assessment paddy var. Swarna sub1 | 5 | 46.7 | 49.97 | 17150 | 19940 | Studies on submergence tolerance of paddy var. Swarna sub 1 couldnot be assessed due to lack of flood in kharif season. Therefore the OFT should be conducted during kharif 2011. |
| Nayagarh | 2010-11/ Kharif | Zinc deficiency in paddy | Assessment | Integrated Nutrient Management | Paddy | Rainfed Medium and low land, | Assessment of zinc application in paddy | 10 | 45.2 | 52.5 | 15570 | 21400 | Basal application Zinc Sulphate @ 25 kg/ha is beneficial |
| Nayagarh | 2010-11/ Kharif | Heavy termite and ESB attack in early stage of cane growth | Assessment | Integrated Pest Management | Sugarcane | Irrigated Medium land | Assessment of insecticides for termite and ESB control in sugarcane | 10 | 94t/ha | 112t/ha | 110759 | 142615 | Soil application of regent (fipronil 0.3% granules) @20kg/ha at the time of planting |
| Nayagarh | 2010-11/ Kharif | Severe BLB incidence | Assessment | Integrated Disease Management | Paddy | Rainfed Low and medium | Assessment of IDM measures | 5 | 35.37 q/ha | 50.73 q/ha | 17232 | 29767 | Seed treatment with plantomycin @ 1gm/kg of seed, |

| | | | | | | | | | | | | | |
|-----------------|--------------------|--|------------|---|--------------------|----------------------------------|--|----|-------------------------------------|---|------------|------------|---|
| | | | | | | land | for BLB in kharif rice | | | | | | Two foliar sprays of streptocycline @ 1gm/10ltrs of water, one at boot leaf stage and another at maximum growth stage |
| Nayagarh | 2010-11/ Kharif | Low yield in chilli due to degenerated variety and susceptible to wilt | Assessment | Varietal Evaluation | Chilli | Flow irrigation Up & medium land | Assessment of high yielding, wilt resistant chilli var. Utkal Abha | 10 | 82.5q/ha | 110.8 q/ha | 34600 | 53190 | Chilli var- Utkal Abha Seed rate @500g/ha, Spacing 90X45 cm FYM @15T/ha, Seed treatment with bavistin @ 2gm/kg of seed NPK@135:88:94kg/ha |
| Nayagarh | 2010-11/ Kharif | Poor livelihood of farm women | Assessment | Small Scale income generating enterprises | Mushroom | | Assessment of lime application in mushroom | 5 | Yld-1.5g | Yld-98 kg | Rs.58/b ed | Rs.90/b ed | Application of lime@2% maintains the required pH in paddy straw mushroom |
| Nayagarh | 2010-11/ Kharif | Drudgery of farm women | Assessment | Drudgery reduction | Groundnut | | Assessment of groundnut decorticat or | 2 | 1.5 kg | 29 | | | |
| Nayagarh | 2010-11/ Kharif | Less fingerling and yearling production in the earthen ponds | Assessment | Production and Management | Indian major carps | Rainfed Low land | Assessment of yearling/fingerling production in cemented tank | 2 | 1.3lak h/ha | 1.5lak h/ha | 39000 | 60000 | Cemented tank fingerling production has high survivability and growth rate |
| Nayagarh | 2010-11/ Kharif | Soil loss due to heavy rain | Assessment | Integrated Farming System | Teak | Rainfed Up land | Assessment of soil conservation through mulching in teak | 5 | Av ht of seedlings - 64.2 cm girth- | Av ht of seedlings - 74 cm Girth - 6 cm | | | Mulching is recommended where there is loss of soil |

| | | | | | | | | | | | | | |
|-----------------|--------------------|---|------------|---------------------------|-------------------|----------------|--|---|--|---|-------|-------|--|
| | | | | | | | plantation | | 4 cm Sur%- 65 | Sur%- 75 | | | |
| Nayagarh | 2010-11/ Kharif | Unavailability of genuine planting materials of superior clones | Assessment | Integrated Farming System | <i>Eucalyptus</i> | Rainfed Upland | Assessment of Eucalyptus clones | 4 | Av ht 64.2 cm Collar dia- 0.4 cm Shoot spread -2 cm | Av ht -73.5 cm Collar dia- 1 cm Shoot spread -1.7 cm | | | Proven superior clones are better performers than local seedlings available. |
| Nayagarh | 2010-11/ Kharif | Non utilization of the interspaces in the teak plantation | Assessment | Integrated Farming System | <i>Teak</i> | Rainfed Upland | Assessment of growth of Elephant Foot Yam var. Gajendra under Teak plantation. | 5 | Av ht (teak)- 2.16m Girth- 6 cm. Survival %- 88 | Av ht (teak) - 1.89m Av yield - 15.5 kg/farmer Girth- 5.2 cm. Survival %- 89 | | | Intercropping give an additional source of income to the farmer but no positive effect on the growth of teak seedlings |
| Nayagarh | 2010-11/ Kharif | Unutilisation of backyard water logging area | Assessment | Production & Management | Crop | Pond based | Assessment of magur culture in backyard | 4 | 3.5q/ha | 2.1q/ha | 15000 | 5000 | Refinement of the technology is necessary |
| Nayagarh | 2010-11/ Kharif | Non availability of magur fingerling for culture practice | Assessment | Production & Management | Crop | Tank based | Assessment of magur fingerling production | 4 | | 5000nos/ha | | 5,000 | Refinement of the technology is necessary |

| | | | | | | | | | | | | | |
|-----------------|----------------|--|------------|--------------------------------|--------------|-----------------------------|---|----|--|------------|--------|--------|---|
| Nayagarh | 2010-11/Kharif | Less fish production due to aquatic weed | Assessment | Production & Management | Crop | Pond based | Assessment of aquatic weed control | 2 | 23q/ha | 25q/ha | 115000 | 135000 | Grass carp and silver carp controls the aquatic weed and enhances the production |
| Nayagarh | 2010-11/ Rabi | Low yield in green gram due to use of local varieties. | Assessment | Varietal Evaluation | Green gram | Rainfed Medium & low land | Assessment of green gram variety LGG460 | 10 | 3.5 | 4.03 | 5900 | 7350 | green gram var. LGG 460 may be used in rabi season for higher yield and profit |
| Nayagarh | 2010-11/ Rabi | Poor nutrient uptake in greengram | Assessment | Integrated Nutrient Management | Greengram | Rainfed Medium land | Assessment of bio-fertiliser application in greengram | 10 | 3.64 | 4.00 | 5600 | 7200 | Bio-fertiliser application in greengram improves yield and profit |
| Nayagarh | 2010-11/ Rabi | Yield instability in Green gram | Assessment | Integrated Nutrient Management | Green gram | Rain fed Medium & low land | Assessment of DAP spray in Green gram | 10 | The OFT is vitiated due to heavy rainfall after sowing leading to very poor crop stand in the field. Therefore this OFT will be repeated in Rabi 2011-12 . | | | | |
| Nayagarh | 2010-11/ Rabi | Heavy wilt complex at early stages of crop growth | Assessment | Integrated Disease Management | Groundnut | Flow irrigation Medium land | Assessment of fungicides for control of wilt in groundnut . | 5 | 11.61 q/ha | 15.33 q/ha | 18185 | 28465 | Seed treatment with Vitavax power @ 1.5 g/Kg of seed + foliar spray of Vitavax power @ 1.5g/ lt. of water for 2-3 times. |
| Nayagarh | 2010-11/ Rabi | Severe infestation of tobacco caterpillar in cabbage | Assessment | Integrated Pest Management | Cabbage | Irrigated Medium land | Assessment of bio-pesticides in managing tobacco caterpillar in cabbage | 5 | 203.8 q/ha | 275.6 q/ha | 56205 | 87508 | Foliar spray of Bt. @ 1Kg /ha with 500 lt. of water and alternate sprayings of Spodoptera NPV @ 250 LE /ha for 2-3 times at 10 days interval. |
| Nayagarh | 2010-11/ Rabi | Low yield of local variety | Assessment | Varietal Evaluation | Sweet Potato | Irrigated Up & medium land | Assessment of Sweet Potato var Kissan | 8 | 119.6 q/ha | 169.3/ha | 24700 | 44450 | Sweet Potato var Kissan cuttings @ 30,000 no/ac NPK @ 30: 20:30/ac planting on rises |

| | | | | | | | | | | | | | | | |
|-----------------|---------------|--|------------|----------------------|-----------|---|---|---|--|--|--|--|--|--|--|
| Nayagarh | 2010-11/ Rabi | Insufficient yield of paddy straw mushroom inside poly house | Assessment | Mushroom cultivation | Mushroom | - | Refinement of off season paddy straw mushroom in poly house | 3 | | | | | | | |
| Nayagarh | 2010-11/ Rabi | Drudgery of farm women | Assessment | Drudgery reduction | Sugarcane | | Assessment of sugarcane stripper | 5 | | | | | | | |

2 Economic Performance

| KVK name | OFT Title | Parameters | | | Average Cost of cultivation (Rs/ha) | | | Average Gross Return (Rs/ha) | | | Average Net Return (Rs/ha) | | | Benefit-Cost Ratio (Gross Return / Gross Cost) | | |
|-----------------|-----------------------------------|--|----------------------|----------------------|--|---------------------------|---|-------------------------------------|---------------------------|---|-----------------------------------|---------------------------|---|---|---------------------------|---|
| | | Name and unit of Parameter | Dem o | Chec k | FP (T₁) | RP (T₂) | Refined Practice, if any (T₃) | FP (T₁) | RP (T₂) | Refined Practice, if any (T₃) | FP (T₁) | RP (T₂) | Refined Practice, if any (T₃) | FP (T₁) | RP (T₂) | Refined Practice, if any (T₃) |
| Nayagarh | Assessment of paddy variety Uphar | Plant height (Cm), Panicle length(Cm), No. of grains/panicle | 145, 26.4 251 | 115 24.0 218 | 31500 | 32200 | | 48080 | 53950 | | 16580 | 21750 | | 1.53 | 1.68 | |
| Nayagarh | Assessment paddy var. Swarna sub1 | Plant height (Cm), Panicle length(Cm), No. of | 105.2 21.8 237 | 101.8 21.5 221 | 29550 | 30030 | | 46700 | 49970 | | 17150 | 19940 | | 1.56 | 1.66 | |

| | | | | | | | | | | | | | | | | |
|----------|---|--|--------------------|--------------------|-------|-------|--|------------|--------|--|------------|------------|--|----------|----------|--|
| | | grains/panicle | | | | | | | | | | | | | | |
| Nayagarh | Assessment of zinc application in paddy | Plant height (Cm), Panicle length (Cm), No. of grains/panicle, | 127 25.1 231 | 121 23.3 201 | 29630 | 31100 | | 45200 | 52500 | | 155 70 | 214 00 | | 1.5 2 | 1.6 9 | |
| Nayagarh | Assessment of insecticides for termite and ESB control in sugarcane | Cane yield (t/ha) , Dead heart (%) | 112 3 | 94 15 | 77241 | 81385 | | 18800 0 | 224000 | | 110 759 | 142 615 | | 2.3 1 | 2.8 9 | |
| Nayagarh | Assessment of IDM measures for BLB in kharif rice | Yield(qt/ha) BLB (%) | 50.7 3 11.6 | 35.37 23.8 | 18138 | 20963 | | 35370 | 50730 | | 172 32 | 297 67 | | 1.9 5 | 2.4 2 | |
| Nayagarh | Assessment of high yielding wilt resistant chilli var. Utkal Ava | Yield (Kg/m ²) | 1.3 | 0.9 | 31400 | 35450 | | 66000 | 88640 | | 346 00 | 531 90 | | 2.1 | 2.5 | |
| Nayagarh | Assessment of lime application in mushroom | Percentage infection in mushroom beds, yield. | | | | | | | | | | | | | | |
| Nayagarh | Assessment of groundnut | Drudgery reduction | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|---------------|---|---|------------------|--------------------------|-------|-------|-------|---------------------|---------------------|--------|--------|--------|-------|------|------|------|--|
| | decorticator | | | | | | | | | | | | | | | | |
| KVK, Nayagarh | Assessment of magur culture in backyard | Production, survivability size | 2.1q/ha | 3.5q/ha | 5000 | 35000 | | 20000 | 40000 | | 15000 | 5000 | | 3.0 | 0.14 | | |
| Nayagarh | Assessment of yearling/fingerling production in cemented tank | Survivability, production, no of crops, | 1.5lakh/ha | 1.3lakh/ha | | 42000 | 48000 | | 81000 | 108000 | | 39000 | 60000 | | 0.92 | 1.25 | |
| Nayagarh | Assessment of magur culture in backyard | Production (q/ha) (8 month) | 2.1q/ha | 3.5q/ha | 5000 | 35000 | | 20000 | 40000 | | 15000 | 5000 | | 3.0 | 0.14 | | |
| Nayagarh | Assessment of magur fingerling production | Production (nos/ha) (2 month) | 5000nos/ha | | | 35000 | | | 40000 | | | 5000 | | | 0.14 | | |
| Nayagarh | Assessment of fingerling production in cement tank | Production (nos/ha) (2 month) | 1.5lakh/ha | 1.3lakh/ha | 42000 | 48000 | | 81000 | 108000 | | 39000 | 60000 | | 0.92 | 1.25 | | |
| Nayagarh | Assessment of aquatic weed control | Production (q/ha) (8 month) | 25q/ha | 23q/ha | 57500 | 58500 | | 172500 | 193500 | | 115000 | 135000 | | 2.0 | 2.30 | | |
| Nayagarh | Assessment of soil conservati | Shoot length, collar | Av ht of seedlin | Av ht of seedlings -64.2 | 12000 | 19690 | | Ex yld after 10 yrs | Ex yld after 10 yrs | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|----------|--|---|---|---|-------|-------|--|-------------------------------|-------------------------------------|--|------|------|--|------|------|--|
| | on through mulching in teak plantation | diameter, survival percentage | gs -74 cm Collar dia- 6 cm Sur%- 75 | cm Collar dia- 4 cm Sur%- 65 | | | | Rs.64000 | 1 lakhs | | | | | | | |
| Nayagarh | Assessment of Eucalyptus clones | Shoot length, collar diameter, shootspread | Av ht of seedlings - 73.5 cm Collar dia- 1 cm | Av ht of seedlings -64.2 cm Collar dia- 0.4 cm | 27000 | 42642 | | Ex yld after 5 yrs Rs90000 | Ex yld after 4 yrs 180000 | | | | | | | |
| Nayagarh | Assessment of growth of Elephant Foot Yam var. Gajendra under Teak plantation. | Growth statistics, % survival | Av ht of seedlings - 1.89m Av yield - 15.5 kg/farmer | Av ht of seedlings - 2.16m. | 12000 | 32000 | | | An additional income of Rs 15000/ha | | | | | | | |
| Nayagarh | Assessment of green gram variety LGG460 | Days to maturity, No of Pods/plant, Pod length (Cm) | 80 35 8.8 | 75 15 4.5 | 11600 | 12800 | | 17500 | 20150 | | 5900 | 7350 | | 1.51 | 1.57 | |
| Nayagarh | Assessment of bio-fertiliser application in | Days to maturity, No. of pods/plant, Pod length | 80 34 9.0 | 80 32 8.4 | 12600 | 12800 | | 18200 | 20000 | | 5600 | 7200 | | 1.44 | 1.56 | |

| | | | | | | | | | | | | | | | | | |
|----------|---|--|---------------|----------------|-------|-------|--|--------|--------|--|-------|-------|--|------|------|--|--|
| | greengram | (Cm) | | | | | | | | | | | | | | | |
| Nayagarh | Assessment of DAP spray in Green gram | The OFT is vitiated due to heavy rainfall after sowing leading to very poor crop stand in the field. Therefore this OFT will be repeated in Rabi 2011-12 . | | | | | | | | | | | | | | | |
| Nayagarh | Assessment of fungicides for control of wilt in groundnut . | Yield (Q/ha) wilt incidence(%), | 15.33 8.9 | 11.61 21.87 | 22450 | 25190 | | 40635 | 53655 | | 18185 | 28465 | | 1.81 | 2.13 | | |
| Nayagarh | Assessment of bio-pesticides in managing tobacco caterpillar in cabbage | Head yield (Q/ha) Spodoptera damage (%) | 275.6 12.3 | 203.8 26.5 | 45695 | 50292 | | 101900 | 137800 | | 56205 | 87508 | | 2.23 | 2.74 | | |
| Nayagarh | Assessment of Sweet Potato var. Kissan | Tuber yield (Kg/m ²) | 1.9 | 1.35 | 35100 | 40200 | | 59800 | 84650 | | 24700 | 44450 | | 1.7 | 2.1 | | |
| Nayagarh | Refinement of off season paddy straw mushroom in poly house | Temperature inside poly house, moisture content. | | | | | | | | | | | | | | | |
| Nayagarh | Assessment of sugarcane stripper | Drudgery reduction | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---------------|---|--------------------|-------------|--------|-------|-------|--|--------|--------|--|--------|--------|--|-----|------|--|
| Nayagarh | Assessment of aquatic weed control | Production | 25q/ha | 23q/ha | 57500 | 58500 | | 172500 | 193500 | | 115000 | 135000 | | 2.0 | 2.30 | |
| KVK, Nayagarh | Assessment of magur fingerling production | Production, Income | 5000 nos/ha | | | 35000 | | | 40000 | | | 5000 | | | 0.14 | |

2.3 Feedback from KVK to Research System

| Name of KVK | Feedback |
|-------------|---|
| Nayagarh | <p>Paddy: Seed treatment is quite effective for BLB control. Farmers are satisfied with the use of antibiotics.</p> <p>Sugarcane: Farmers are quite satisfied with the performance of Fipronil. More emphasis should be given for its easy availability.</p> <p>Groundnut: Seed treatment and foliar spray of vitavax power is quite encouraging and farmers are satisfied by the use of this fungicide. Higher motivation is required to the farmers for soil drenching of the chemicals.</p> <p>Cabbage: farmers are very much satisfied with the use and performance of Bt and NPV (Bio-pesticides). More awareness is required to the farmers for the bio-pesticide use.</p> <p>Magur fry survival rate is less</p> <p>Magur feed availability</p> <p>Gajendra high yielding and promising</p> <p>Eucalyptus clones- fast growing high;y profitable, browsed by cattle</p> <p>Teak is the most preferred tree species in any programme</p> <p>Paddy: Var. Upahar : So far productivity, panicle length no of grains/panicle are concerned, Paddy var. Upahar is better than paddy var. Pooja & local var. Mayurkantha & Talakuni under semi deep low land situation. How ever paddy var. pooja possess better grain quality than paddy var. Upahar. The seed material of paddy var. Upahar may be made available at block level for better adaptation.</p> <p>Paddy: Zinc application in paddy: Application of zinc sulphate @ 20kg/ha improves grain yield, nos of grains/panicle,</p> |

reduces chaffiness significantly. Zinc sulphate may be made available at block level for wide adaptation.

Greengram: Var. LGG 460 is superior to local var. of Moong with respect to grain yield, no of pods /plant, pod length.

Seeds of the variety should be made available at block level.

Greengram: Biofertilizer application improves yield in greengram. Quality of the biofertilisers should be properly maintained & it should be available at GP level at the time of sowing.

3. Achievements of Frontline Demonstrations

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

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

| KVK Name | Crop/ Enterprise | Thematic Area | Technology demonstrated | Details of popularization methods suggested to the Extension system | Horizontal spread of technology | | |
|----------|---------------------|--|---|---|---------------------------------|-------------------|---------------|
| | | | | | No. of villages | No. of farmers | Area in ha |
| Nayagarh | Paddy | Integrated Nutrient Management | Green manuring in direct seeded kharif paddy | Training, leaf lets, exposure visit, video show, news paper | 14 | 240 | 209 |
| Nayagarh | Paddy | Varietal Evaluation | Varietal substitution in paddy | Training, leaf lets, exposure visit, news paper | 9 | 180 | 220 |
| Nayagarh | Field pea | Integrated Crop Management | Pyara cropping of field pea | Training, leaf lets, exposure visit, news paper | 8 | 119 | 161 |
| Nayagarh | Paddy | Integrated pest management | Integrated pest management in rice | Training, leaf lets, exposure visit, video show, news paper | 18 | 170 | 118 |
| Nayagarh | Sugarcane | Integrated pest management | Biological control of sugarcane borers | Training, leaf lets, exposure visit, video show, news paper | 10 | 262 | 198 |
| Nayagarh | Beekeeping | Small Scale income generating enterprises | Bee keeping for rural youth | Training, leaf lets, exposure visit, video show, news paper | 13 | 35 | 121 Units |
| Nayagarh | Brinjal | Integrated pest management | Integrated pest management in brinjal | Training, leaf lets, exposure visit, video show, news paper | 12 | 149 | 99 |

| | | | | | | | |
|----------|--------------------|----------------------------|---|---|----|-----|-----|
| Nayagarh | Tamato | Integrated pest management | Microbial control of tomato fruit and shoot borer | Training, leaf lets, exposure visit, video show, Kisan mela | 8 | 73 | 38 |
| Nayagarh | Bananna | Varietal Evaluation | Cultivation of Tissue culture banana | Training, Farm Visit, Exposure visit, Film show | 11 | 85 | 30 |
| Nayagarh | Papaya | Varietal Evaluation | Cultivation of high yielding variety of papaya | Training, Farm Visit, Exposure visit, Film show | 15 | 98 | 24 |
| Nayagarh | Gajendra | Varietal Evaluation | Introduction of improved EFY Var. Gajendra | Training, Farm Visit, Exposure visit, Film show | 13 | 160 | 17 |
| Nayagarh | Arrowroot | Integrated Crop Management | Crop substitution with arrowroot. | Training leaf lets, exposure visit, | 8 | 194 | 68 |
| Nayagarh | Turmeric | Varietal Evaluation | Introduction of improved Turmeric var. Suroma | Training, Farm Visit, Exposure visit, Film show | 7 | 49 | 7 |
| Nayagarh | Indian major carps | Disease of Management | Application of CIFAX | Training, Farm Visit, Exposure visit, Film show | 10 | 6 | 4 |
| Nayagarh | Indian major carps | Production and Management | Pond based farming system | Training, Farm Visit, Exposure visit, Film show | 15 | 2 | 0.4 |
| Nayagarh | Indian major carps | Production and Management | Duck cum fish culture | Training, Farm Visit, Exposure visit, Film show | 7 | 2 | 0.4 |
| Nayagarh | Prawn | Production and Management | Prawn culture with fish | Training, Farm Visit, Exposure visit, Film show | 8 | 2 | 0.2 |
| Nayagarh | Fish feed | Nutrition Management | Supplementary floating feed application | Training, Farm Visit, Exposure visit, Film show | 7 | 2 | 0.4 |
| Nayagarh | Indian major carps | Disease of Management | Application of CIFAX | Training, Farm Visit, Exposure visit, Film show | 10 | 6 | 4 |
| Nayagarh | Bamboo | Seed / Plant production | Raising of bamboo through culm cutting | Training farm visit, Exposure visit, Booklet | 5 | 35 | 10 |

| | | | | | | | |
|-------------------------|----------|---------------------------|--|--|----|----|----------|
| Seed / Plant production | Acacia | Integrated Farming System | Growing Acacia in bunds | Training, group discussion, News paper coverage | 6 | 65 | 6 |
| Nayagarh | Mushroom | Mushroom cultivation | Paddy straw mushroom cultivation. | Publication of article, Group discussion & Demonstration | 16 | 20 | 100 beds |
| Nayagarh | Paddy | Drudgery reduction | Demonstration of Mandua weeder in paddy weeding. | Demonstration | 4 | 5 | 1 |

Details of FLDs implemented

| KVK Name | Thematic area | Name of Crop/Enterprise | Season and year | Technology demonstrated | Crop-Area (ha) / Entrep - No. | Name of Variety/Technology /Entreprizes | Results (q/ha) | | % change | No. of farmers | | | | |
|-----------|--------------------------------|-------------------------|-----------------|---------------------------------|-------------------------------|--|----------------|-------|----------|----------------|----|-----|--------|-------|
| | | | | | | | Demons | Check | | SC | ST | OBC | Others | Total |
| Nayagarrh | Integrated Nutrient Management | Maize | Kharif 2010-11 | INM in maize | 2.0 ha | Application of FYM @ 5t/ha+ bio-fertilizer+NPK @ 80:40:40 kg/ha+ZnSo4 @ 25kg/ha | 46.87 | 39.1 | 19.87 | | | 10 | | 10 |
| Nayagarrh | Integrated Crop Management | Paddy | Kharif 2010-11 | SRI method of paddy cultivation | 2.0 ha | Transplanting of 8-12 days old one seedling/hill at a spacing of 25cmx 25cm with incorporation of weeds by mechanical weeder, proper water management. | 58.2 | 49.5 | 17.6 | 4 | | 8 | | 12 |
| Nayagarrh | Varietal Evaluation | Paddy | Kharif 2010-11 | Paddy var. Manaswini | 6.0 ha | Cultivation of paddy var. Manaswini possessing high yield potential, good grain quality, suitable for late sown condition, resistant to stemborer, leaf folder, moderately resistant to BPh and WBPH | 48.5 | 42.6 | 13.8 | 2 | | 11 | 4 | 17 |

| | | | | | | | | | | | | | | |
|----------|--------------------------------|-----------|----------------|--|--------|--|-------|-------|-------|---|---|---|---|----|
| Nayagarh | Varietal Evaluation | Sugarcane | Rabi 2010-11 | Sugarcane var. CO OR 04-152(Raghunath) | 0.5 ha | Sugarcane var. CO OR 04-152(Raghunath) | 1205 | 1004 | 20 | 4 | | 1 | 1 | 6 |
| Nayagarh | Varietal Evaluation | Sugarcane | Rabi 2010-11 | Sugarcane var. Neelamadhaba | 0.5 ha | Introduction of sugarcane var. Neelamadhaba possessing high yield potential, high sucrose content (>16%), tolerant to water logging condition. | | | | | | | 5 | 5 |
| Nayagarh | Production of organic inputs | Vermi n | Rabi 2010-11 | Vermicomposting | 5units | Vermicomposting | | | | | | 4 | 1 | 5 |
| Nayagarh | Integrated Pest Management | Rice | Kharif 2010-11 | IPM for stem borer in kharif paddy | 2.0 ha | Pratiksha Foliar spray of chloropyriphous @ of 1lt/ha with use of Tricocards @ 50,000/ha for 5 to 6 times at 15 days interval | 50.52 | 38.21 | 32.21 | 2 | 1 | | 7 | 10 |
| Nayagarh | Bio control of Pest & diseases | Sugarcane | Kharif 2010-11 | Biological control of sugarcane borers | 4.0 ha | Sabita Soil application of NOC @ 2.5q/ha + use of tricocards (T.chilonis @ 1,25000/ha for 5 to 6 times at the appearance of borer | 1291 | 1081 | 19.44 | | | 9 | 1 | 10 |

| | | | | | | | | | | | | | | |
|----------|---|-----------|----------------|--|----------|---|----------|---------|-------|---|----|---|----|----|
| Nayagarh | Bio control of Pest & diseases | Tomato | Rabi 2010-11 | Microbial control of fruit borer in tomato | 1.0 ha | Chiranjivi Soil application of <i>P.floroscence</i> @ 2.5kg/ha with foliar spray of Bt @ 1kg/ha for 3 to 4 times at 15 days interval | 312.5 | 237.5 | 31.58 | | | 8 | 2 | 10 |
| Nayagarh | Small Scale income generating enterprises | Honey bee | Rabi 2010-11 | Beekeeping | 10 units | <i>Apis.cerena indica</i> , Beekeeping | 0.6 | | | | | 5 | 5 | 10 |
| Nayagarh | Varietal Evaluation | Colocasia | Kharif 2010-11 | Colocasia var-Muktakeshi | 0.4 ha | Variety Muktakeshi spacing 45x20cm , depth 5 cm, FYM @ 15ton/ha seed treatment with bavistin@ 2gm /kg of seed, seed rate 20q/acre. | 182.6 | 142.5 | 28% | 1 | 10 | | 1 | 12 |
| Nayagarh | Mushroom cultivation | Mushroom | kharif 2010-11 | Paddy straw mushroom | 100 beds | Cultivation of paddy straw mushroom. variety <i>V.volvaceae</i> | 700g/bed | 950/bed | 36% | | | | 20 | 20 |

| | | | | | | | | | | | | | | |
|----------|---------------------------|------------------------------------|-------------|--|--------|--|--|--|--|---|---|---|---|----|
| Nayagarh | Integrated Farming System | Acacia mangium | Kharif 2010 | Planting of <i>Acacia mangium</i> (2.5X2.5 m) on the bunds of agricultural lands and ponds | 0.2 ha | | Av ht 1.1 m Av dia- 1.3 cm Av.No.of branches - 2,Avspread-1m | | | 1 | | 9 | | 10 |
| | Integrated Farming System | Hill broom | Kharif 2010 | Planting 2 months seedling of Hill broom in the unutilised homesteads | 0.2 ha | | | | | 4 | 6 | | | 10 |
| Nayagarh | Integrated Farming System | Teak Mangium Eucalyptus Gliricidia | Kharif 2010 | Planting seedling of MPTs in the unutilized homesteads | 1.0 ha | | Teak-Av ht-1.5 m Sisoo-91.2 cm Gliricida -1.5m Eucalyptus-91.6cm Survival% - 75(T),69(M),55(G),81(E) | | | | | 7 | 3 | 10 |

| | | | | | | | | | | | | | | |
|----------|-------------------------|-------|-------------|---|--------|---|------|------|--------|---|--|---|---|---|
| Nayagarh | Production & Management | Prawn | Kharif 2010 | fish culture with freshwater prawn | 0.8 ha | Scampi, Scampi seed will be stocked as bottom layer culture organism with rohu as column and catla as surface layer | 22.3 | 20 | 11.5 | | | 2 | | 2 |
| Nayagarh | Feed and fodder | Fish | Kharif 2010 | Floating fish feed | 0.4 ha | Godrej, Fish feed floating type will be given during the culture period of fish, fishes will take the floating feed from the left over feed, feed consumption level can be assessed with minimizing the expenditure | 33.2 | 23.5 | 41.2 | | | | 2 | 2 |
| Nayagarh | Production & Management | Fish | Kharif 2010 | Farming system with horticulture and animal component | 0.4 ha | Tissue culture, Horticulture as well as seed production along with fish culture | 46.8 | 22.6 | 107.07 | | | | 2 | 2 |
| Nayagarh | Production & Management | Fish | Kharif 2010 | Duck cum fish culture | 0.4 ha | Khaki Campbell, duckery will be utilized for egg, meat, manure as well as aeration to the fish culture practice | 28.3 | 20 | 41.5 | 1 | | 1 | | 2 |

| | | | | | | | | | | | | | | | |
|----------|--------------------------------------|--------|--------------|---|--------|---|---|----|------|---|---|---|----|---|----|
| Nayagarh | Disease management | Fish | Rabi 2010-11 | CIFAX application for control of EUS | 4.0 ha | CIFAX, CIFAX will be applied in the pond water 1lit/ha as a curative for EUS diseases | 24.5 | 20 | 22.5 | 1 | | 2 | 1 | 4 | |
| | Quality planting material production | Bamboo | Kharif 2010 | Bamboo cuttings from 1-2 yr. old culms cut with two nodes, hole punched and filled with water and sealed, placed on seed bed to induce roots & shoots | 0.2ha | | Av.ht - 1.3 m No. of sprouts - 4. Survival %-75 | | | | 1 | | 13 | 2 | 15 |

3.3 Economic Impact of FLD

| KVK Name | Name of Crop/ Enterprise | Technology demonstrated | Parameters | | | Cost of cultivation (Rs/ha) | | Gross Return (Rs/ha) | | Average Net Return (Rs/ha) | | Benefit-Cost Ratio (Gross Return / Gross Cost) | |
|----------|--------------------------|---------------------------------|--|---------------|---------------|-----------------------------|-------|----------------------|-------|----------------------------|-------|--|-------------|
| | | | | | | | | | | | | | |
| | | | Name and unit of Parameter | Demo | Check | Demo | Check | Demo | Check | Demo | Check | Demo | Local Check |
| Nayagarh | Maize | INM in maize | No. of seed rows | 15 | 12 | 19300 | 18400 | 37500 | 31280 | 18200 | 12880 | 1.94 | 1.7 |
| | | | No. of grains / row | 35 | 28 | | | | | | | | |
| Nayagarh | Paddy | SRI method of paddy cultivation | Plant height (Cm), Panicle length(Cm) | 111.4 25.4 | 107.4 22.5 | 27150 | 27350 | 58200 | 49500 | 31050 | 22150 | 2.14 | 1.8 |
| | | | No. of grains/panicle | 255 | 224 | | | | | | | | |
| Nayagarh | Paddy | Paddy var. Manaswini | Plant height (Cm), Panicle length(Cm) | 106.5 24.6 | 100.6 21.0 | 27500 | 25850 | 48500 | 42600 | 21000 | 16750 | 1.76 | 1.6 |
| | | | No. of grains/panicle | 253 | 221 | | | | | | | | |

| | | | | | | | | | | | | | |
|----------|-------------|---|--|---------------------|---------------------|-------|-------|--------|--------|--------|--------|------|------|
| Nayagarh | Sugarcane | Sugarcane var COOR 04 152 (Raghunath) | Cane length(M) cane diameter (cm) single cane weight (kg) | 3.5 3.6 2.775 | 3.3 2.8 1.950 | 81695 | 78132 | 241000 | 200800 | 159305 | 122668 | 2.95 | 2.57 |
| Nayagarh | Sugarcane | Sugarcane var. Neelamadhaba | | | | | | | | | | | |
| Nayagarh | Vermin | Vermicomposting | | | | | | | | | | | |
| Nayagarh | Rice | IPM for stem borer in kharif rice | Grain yield(Qt /ha) Borer incidence (%) | 50.52 8.8 | 38.21 25.6 | 21297 | 20217 | 50520 | 38210 | 29293 | 17993 | 2.38 | 1.89 |
| Nayagarh | Sugarcane | Biological control for sugarcane borers | Cane yield(t/ha) Borer infestation (%) | 129 11.3 | 108 25.9 | 88400 | 79757 | 258000 | 197000 | 169600 | 117243 | 2.92 | 2.47 |
| Nayagarh | Tomato | Microbial control for fruit borer in tomato | Yield(Q /ha) Fruit borer damage(%) | 312.5 8.6 | 237.5 28.4 | 55265 | 49274 | 156250 | 118750 | 100985 | 69476 | 2.83 | 2.41 |
| Nayagarh | Bee keeping | Bee keeping | Yield(Kg/box) | 6 | | 3257 | | 8500 | | 5243 | | 2.61 | |
| Nayagarh | Colocassia | Colocassia var-Muktakeshi | Yield (Kg/m ²) | 2.2 | 1.6 | 31750 | 27600 | 73000 | 57000 | 41250 | 29400 | 2.3 | 2.0 |
| Nayagarh | Mushroom | Paddy straw mushroom | Yld (kg/bed) | 0.95 | 0.7 | 30 | 25 | 76 | 56 | 46 | 21 | 2.53 | 1.83 |

| | | | | | | | | | | | | | |
|----------|-----------|--|---|----------------------------|---------|-----------|---|---|-------------------------------|--------|--------|------|------|
| Nayagarh | Mangium | Bund planting | Ht(m) Collar dia(cm) Av.No.o f braches | 1.1 1.3 2 | | 120 00 | | | 53000 (after 10 yrs) | | | | |
| Nayagarh | Bamboo | Culm cutting method | No of sprouts, ht of sprouts(m) Survival % | 1.3 m 4 nos 75 | 1m 3 | 450 0 | Mos tly natu rall y pro pag ated | 7820 /- from 4 th yr onwa rds | | | | | |
| Nayagarh | Hillbroom | Intercropping | | | | | | | | | | | |
| Nayagarh | Prawn | fish culture with freshwater prawn | Producti on (q/ha) | 22.3 | 20 | 63000 | 50500 | 211850 | 150000 | 148850 | 99500 | 2.36 | 1.97 |
| Nayagarh | Fish | Floating fish feed | Producti on (q/ha) | 33.2 | 23.5 | 67500 | 55000 | 249000 | 176250 | 181500 | 121250 | 2.69 | 2.20 |
| Nayagarh | Fish | Farming system with horticulture and animal component | Producti on (q/ha) | 46.8 | 22.6 | 64000 | 48500 | 351000 | 169500 | 287000 | 121000 | 4.48 | 2.49 |
| Nayagarh | Fish | Duck cum fish culture | Producti on (q/ha) | 28.3 | 20 | 52000 | 47500 | 212250 | 150000 | 160250 | 102500 | 3.08 | 2.16 |
| Nayagarh | Fish | CIFAX application for control of EUS | Producti on (q/ha) | 24.5 | 20 | 51200 | 50000 | 183750 | 150000 | 132550 | 100000 | 2.59 | 2.00 |

Feedback of the Farmers

| Name of KVK | Feedback |
|-------------|---|
| Nayagarh | <p>Colocasia: Resistant to blight & water lodging, more acceptability among farmers.</p> <p>Paddy: All the farmers appreciated to the performance & ready to adopt in the technology as it is low cost, economic & ecofriendly.</p> <p>Sugarcane: All the farmers appreciated to the performance & ready to adopt in the technology as it is low cost, economic & ecofriendly.</p> <p>Trichocards should be available easily & plentifully to the farmers.</p> <p>Tomato: All the farmers appreciated to the performance & ready to adopt in the technology as it is low cost, economic & ecofriendly.</p> <p>Beekeeping: It has a lot of scopes as the district has good coverage of natural forest, very good enterprise which provides good returned to the farmers in long term</p> <p>Scampi fetches good price than fish</p> <p>Waste of feed in floating feed is less</p> <p>Round the year employment in farming system</p> <p>Duck gives egg, meat, fertilizer, aeration</p> <p>Therapeutic treatment with less dose in beneficial in CIFAX</p> <p>Mangium- fast growing, highly adaptable tree species, survival percentage is high</p> <p>Hill broom- heavily browsed by cattle</p> <p>Maize: INM in Maize Farmer are very much convinced that application of organic manure, in conjunction with inorganic fertilizer and micro nutrients increase yield, cob length & grains per cob.</p> <p>Paddy: SRI method of planting is definitely more productive, it is suitable for irrigated lands with facility of drainage.</p> <p>Manaswini: It is performing better than the ruling swarna variety. Its grain quality is also better so far yield and juice quality are concerning.</p> <p>Sugarcane var. COPOR04152 is definitely superior to CO6907. However CO6907 is more tolerant to moisture stress than COOR04152</p> |

3.5 Training and Extension activities under FLD

| KVK Name | Crop | Activity | No. of activities organized | Number of participants | Remarks |
|----------|--------------------|--------------------------------------|-----------------------------|------------------------|---------|
| Nayagarh | Paddy | Field days | 2 | 100 | |
| | | Farmers Training | 8 | 200 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | 3 | 45 | |
| Nayagarh | Maize | Field days | | | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Nayagarh | Paddy | Field days | 1 | 35 | |
| | | Farmers Training | 2 | 50 | |
| | | Media coverage | 1 | 300 | |
| | | Training for extension functionaries | 1 | 15 | |
| Nayagarh | Sugarcane | Field days | 1 | 35 | |
| | | Farmers Training | 2 | 45 | |
| | | Media coverage | 2 | 550 | |
| | | Training for extension functionaries | 1 | 15 | |
| Nayagarh | Tomato | Field days | 1 | 50 | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Nayagarh | Beekeeping | Field days | | | |
| | | Farmers Training | 1 | 20 | |
| | | Media coverage | 1 | 400 | |
| | | Training for extension functionaries | | | |
| Nayagarh | Colocassia | Field days | | | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Nayagarh | Indian major carps | Field days | 1 | 50 | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | 1 | | |
| | | Training for extension functionaries | | | |
| Nayagarh | Prawn | Field days | 1 | 50 | 1 |
| | | Farmers Training | 1 | 25 | 1 |
| | | Media coverage | 2 | 450 | 2 |
| | | Training for extension functionaries | | | |

| | | | | | |
|----------|--------------------------|--------------------------------------|---|-----|---|
| Nayagarh | Fish | Field days | 2 | 100 | 2 |
| | | Farmers Training | 8 | 195 | 8 |
| | | Media coverage | 2 | 500 | 2 |
| | | Training for extension functionaries | 3 | 60 | 3 |
| Nayagarh | Bamboo | Field days | | | |
| | | Farmers Training | 1 | 25 | |
| | | Media coverage | | | |
| | | Training for extension functionaries | | | |
| Nayagarh | Mushroom | Field days | 1 | | |
| | | Farmers Training | 2 | | |
| | | Media coverage | 1 | | |
| | | Training for extension functionaries | | | |
| Nayagarh | Zero energy cool chamber | Field days | 1 | | |
| | | Farmers Training | 1 | | |
| | | Media coverage | 1 | | |
| | | 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 |
|-------------|--------------------------|---|--|------------------------------|
| Nayagarh | Farmers and Farm women | Group discussion, Field visit | 15-04-2010,Sikharpur,Jogiapalli | 20 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit | 29-04-2010,Sardarpur | 17 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit | 5-05-2010, chandi,Biridui | 21 |
| Nayagarh | Farmer and Farmwomen | PRA Survey | 14-5-2010,Totasahi,Madhupur | 17 |
| Nayagarh | Farmers and Farm women | PRA survey Group discussion, Field visit | 25-5-2010,Budijhari,Badahamara | 16 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 2-6-2010,Malatipur,Koska,Balspada | 15 |
| Nayagarh | Farmers and Farm women | Group discussion | 8-7-2010, Kunjbiharipur,khandapada,Khedapada | 13 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 5-7-2010,Lakmiprasad,Bodapada, | 14 |
| Nayagarh | Farmers and Farm women | Group discussion | 28-7-2010,Maradrajpur,Pandusara | 20 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 3-8-2010, Kridashpur,Kantabania,Malatipur,Kunjbiharipur | 19 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 25-8-2010, Rampada,Bhapur | 15 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 7-9-2010 Sikharpur,Biridi,Khandapada | 13 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 6-10-2010 Malisahi,Rohisahi,Jatpur | 17 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 11-11-2010 Deuli,Denkena,Balugaoan | 20 |
| Nayagarh | Farmers and Farm women | Group discussion – By seeing the pest incidence in cabbage and cauliflower, some practicing farmers aware for insect pest management. | 3-12-2010, Karabara,Nandabar,Jasabantapur | 9 |
| Nayagarh | Farmers and Farm women | Diagnostic field visit – By seeing the sunflower pots infested with cut worn, some practicing farmers were interested for diagnostic symptoms and management. | 3-1-2011, Jogiapalli,Khunguri,Badahamara | 13 |
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 23-2-2011 Guntuni,Chandi,Biridi,Malatipur | 11 |
| Nayagarh | Farmers and Farm women | Diagnostic field visit – By visiting the brinjal plots highly infested with fruit and shoot borer, some practicing farmers and farm women were interested for its management. | 15-03-2011, Champatipur,Sardapur,Godipatana | 17 |

| | | | | |
|----------|------------------------|---|--|----|
| Nayagarh | Farmers and Farm women | Group discussion, Field visit, survey | 17-3-2011 Khedapada,Malisahi | 26 |
| Nayagarh | In-service | Group discussion – By discussing with the NGO President, Secretary about the demerits of use of chemical pesticides the NGO members were interested for the application of biopesticides in insect pest management. | 26-8-2010 Khandapada,Budusa | 7 |
| Nayagarh | In-service | Group discussion with NGO workers and Krushak club members | 5-10-2010, Khalisahi,Khandapada,Banamalipur | 10 |
| Nayagarh | In-service | Group discussion with NGO workers and Krushak club members | 15-12-2010, Singipur,Petapalli,Serjang | 8 |
| Nayagarh | In-service | Group discussion with NGO workers, Krushak club members and SHG members | 18-02-2011, Nuagoan,Seranda,Jakola | 9 |
| Nayagarh | Rural Youth | Group discussion | 18-6-2010 Kantabania,Balugoan,Jaimangala | 10 |
| Nayagarh | Rural Youth | Group discussion | 2-7-2010Janisahi | 7 |
| Nayagarh | Rural Youth | Group discussion – By interacting with the unemployed rural youths in the area about the ill effect of hazardous pesticides, they are interested for safety in judicious use of plant protection chemicals. | 24-1-2011, Janisahi,Dalaksahi,Digiri | 6 |
| Nayagarh | Rural Youth | Group discussion – By interacting with the unemployed rural youths in the area | 1-3-2011, Champatipur,Ranapur | 9 |

Abbreviation Used

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

5. TRAINING PROGRAMMES

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

Table 5.1. Details of Training programmes conducted by the KVKs

| Name of KVK | Cate-gory | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|-----------|---------------|---------------|--|----------------|-----------------|--------------|----|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Nayagarh | FW | OFC | HOF | Planting technique in mango & cashew nut | 1 | 1 | | | 2 | 1 | 12 | 10 | | |
| Nayagarh | FW | ONC | HOV | Raising of vegetable nursery | 1 | 1 | | | 3 | 1 | 13 | 8 | | |
| Nayagarh | FW | OFC | HOT | Planting and post planting management in sweet potato | 1 | 1 | | | 1 | 3 | 3 | 13 | | |
| Nayagarh | FW | OFC | HOT | Method of planting, nutrient and water management in sweet potato and chilli | 1 | 1 | 1 | 21 | | 3 | | | | |
| Nayagarh | FW | OFC | HOS | Planting techniques in turmeric | 1 | 1 | | | | 5 | 4 | | 16 | |
| Nayagarh | FW | OFC | HOM | Cultivation of medicinal plants for higher profit | 1 | 1 | | | 7 | | | 1 | 17 | |
| Nayagarh | FW | ONC | HOF | Care and maintenance of young cashew orchard | 1 | 2 | 25 | | | | | | | |
| Nayagarh | FW | ONC | HOV | Use of plant growth regulators in vegetable crops | 1 | 2 | 25 | | | | | | | |
| Nayagarh | RY | ONC | HOT | Corm treatment, planting and fertilizer management in colocasia | 1 | 1 | | | 1 | | 12 | 7 | | |
| Nayagarh | RY | ONC | HOF | Quality planting material production | 1 | 3 | 20 | | | | | | | |

| Name of KVK | Cate-gory | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|-----------|---------------|---------------|--|----------------|-----------------|--------------|---|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | | | in fruit crops | | | | | | | | | | |
| Nayagarh | FW | ONC | PLP | IPM for eriophyid mite in coconut | 1 | 2 | | | | | 12 | 13 | | |
| Nayagarh | FW | ONC | PLP | IDM for sheath blight,blast &BLB diseases in rice | 1 | 2 | | | 1 | | | | 14 | 10 |
| Nayagarh | FW | ONC | PLP | IDM in vegetable nursery | 1 | 2 | | | 12 | | | | 13 | |
| Nayagarh | FW | ONC | PLP | IPM for major insect pest in cole crops | 1 | 2 | | | 5 | | | | 20 | |
| Nayagarh | FW | ONC | PLP | IPM for fruit & shoot borer in brinjal | 1 | 2 | | | | | | | 25 | |
| Nayagarh | FW | OFC | PLP | IPM for fruit fly in cucurbits | 1 | 1 | | | | | | | 23 | 2 |
| Nayagarh | FW | OFC | PLP | Biological control for sugarcane borers | 1 | 1 | | | 2 | | | | 19 | 4 |
| Nayagarh | FW | OFC | PLP | IPM for YSB,BPH &Gandhi bug in rice | 2 | 2 | | | | | 11 | 14 | 25 | |
| Nayagarh | FW | OFC | PLP | Management of die back &fruit rot diseases in seedling | 1 | 1 | | | 11 | | | | 14 | |
| Nayagarh | FW | OFC | PLP | IPM for major sucking pest in oilseed crops | 1 | 1 | | | 1 | 2 | | | 22 | |
| Nayagarh | FW | OFC | PLP | IDM for root rot &YMV in pulses | 1 | 1 | | | | | | | 25 | |
| Nayagarh | FW | OFC | PLP | Wilt management in solanaceous vegetables | 1 | 1 | | | 2 | | | | 23 | |
| Nayagarh | RY | ONC | PLP | IPM in sugarcane | 1 | 2 | | | | | | | 14 | 6 |
| Nayagarh | RY | ONC | PLP | Safe &judicious use of pesticides | 1 | 3 | | | 1 | | | | 14 | |
| Nayagarh | IS | ONC | PLP | Use of bio-pesticides &botanicals for insect | 1 | 2 | | | 1 | | | | 14 | |

| Name of KVK | Cate-gory | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|-----------|---------------|---------------|--|----------------|-----------------|--------------|---|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | | | pest management in organic farming | | | | | | | | | | |
| Nayagarh | IS | ONC | PLP | Use of bio pesticides in managing major insect pest in field crops | 1 | 3 | | | | | | | 15 | |
| Nayagarh | IS | ONC | PLP | Modern pest control methods for managing insect pest in crops | 1 | 3 | | | 1 | | | | 13 | 1 |
| Nayagarh | FW | ONC | CRP | Hybrid paddy cultivation | 1 | 2 | 1 | | 1 | | | | 23 | |
| Nayagarh | FW | ONC | CRP | SRI method of paddy cultivation | 1 | 2 | | | 2 | | | | 22 | 1 |
| Nayagarh | FW | OFC | CRP | SRI method of paddy cultivation | 1 | 1 | 8 | | 8 | | | | 9 | |
| Nayagarh | FW | OFC | CRP | Integrated weed management in paddy | 2 | 2 | 18 | | | | | | 19 | 13 |
| Nayagarh | FW | OFC | CRP | Soil test based INM in maize | 1 | 1 | | | 1 | | | | 17 | 7 |
| Nayagarh | FW | OFC | CRP | Techniques of rouging in paddy | 3 | 3 | 7 | 2 | 16 | 2 | | | 48 | |
| Nayagarh | FW | OFC | CRP | Planting techniques in sugarcane | 1 | 1 | | | | | | | 25 | |
| Nayagarh | FW | OFC | CRP | Use of bio inoculant in pulses | 1 | 1 | | | | | | | 25 | |
| Nayagarh | FW | ONC | CRP | Ratoon management in sugarcane | 1 | 2 | | | 2 | | | | 23 | |
| Nayagarh | RY | ONC | CRP | Techniques of seed production in paddy | 1 | 2 | | | 1 | | | | 19 | |
| Nayagarh | RY | ONC | CRP | Use of growth regulator in field crops | 1 | 2 | | | 1 | | | | 19 | |
| Nayagarh | IS | ONC | CRP | Acid soil | 1 | 2 | 1 | 1 | | | 4 | | 9 | |

| Name of KVK | Cate-gory | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|-----------|---------------|---------------|--|----------------|-----------------|--------------|---|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | | | management | | | | | | | | | | |
| Nayagarh | IS | ONC | CRP | Nutrient management in organic farming | 1 | 2 | 4 | | | | | | 11 | |
| Nayagarh | FW | ONC | FIS | Mixed culture in fish | 1 | 2 | | | | 25 | | | | |
| Nayagarh | FW | ONC | FIS | Magur culture | 1 | 2 | | | 25 | | | | | |
| Nayagarh | RY | ONC | FIS | Fish seed production in cemented tank | 1 | 2 | 20 | | | | | | | |
| Nayagarh | IS | ONC | FIS | Cage and pen culture in reservoirs | 1 | 2 | 20 | | | | | | | |
| Nayagarh | FW | ONC | FIS | Dry fish and fish pickle preparation | 1 | 2 | | | | 25 | | | | |
| Nayagarh | FW | ONC | FIS | Preparation of fish feed | 1 | 2 | | | 25 | | | | | |
| Nayagarh | FW | OFC | FIS | Fish fingerling production | 1 | 1 | 25 | | | | | | | |
| Nayagarh | FW | OFC | FIS | Control of EUS | 1 | 1 | 25 | | | | | | | |
| Nayagarh | FW | OFC | FIS | Pen culture in reservoirs | 1 | 1 | 25 | | | | | | | |
| Nayagarh | FW | OFC | FIS | Magur seed production | 1 | 1 | 25 | | | | | | | |
| Nayagarh | IS | ONC | FIS | Low cost aquaculture | 1 | 2 | 17 | 3 | | | | | | |
| Nayagarh | IS | ONC | FIS | Fish seed production in cemented tank | 1 | 2 | 17 | 3 | | | | | | |
| Nayagarh | FW | ONC | CBD | Role & responsibilities of SHGs | 1 | 1 | | | | | 9 | 14 | 2 | |
| Nayagarh | FW | OFC | CBD | Skilled training on agricultural implement: maintenance & use of sprayer | 1 | 1 | | | 3 | 1 | 13 | 8 | | |
| Nayagarh | FW | OFC | CBD | Scientific pulse production | 1 | 1 | | | 3 | 1 | 12 | 9 | | |

| Name of KVK | Cate-gory | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|-----------|---------------|---------------|---|----------------|-----------------|--------------|----|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | | | | technology | | | | | | | | | | |
| Nayagarh | FW | ONC | CBD | Use of seed drill in vegetable crops | 1 | 1 | | 25 | | | | | | |
| Nayagarh | FW | ONC | CBD | Use of implement in vegetable crops | 1 | 2 | | 9 | | | | | | 16 |
| Nayagarh | RY | OFC | CBD | Leadership development for community work | 1 | 1 | 5 | | | | 4 | | 11 | |
| Nayagarh | RY | OFC | CBD | Organising farmers club | 1 | 1 | 15 | | | | | | 5 | |
| Nayagarh | IS | ONC | CBD | Motivational skill technique | 1 | 1 | 14 | 1 | | | | | | |
| Nayagarh | IS | OFC | CBD | PRA methodology | 1 | 1 | 10 | | | | | | 5 | |
| Nayagarh | IS | ONC | CBD | Agro-ecosystem analysis for resources characterization | 1 | 1 | 11 | | | | | | 4 | |
| Nayagarh | IS | ONC | CBD | Participatory project management in rural sector for sustainable livelihood & food security | 1 | 1 | 12 | | | | | | 3 | |
| Nayagarh | IS | ONC | CBD | Management of training programme | 1 | 1 | 11 | | | | | | 4 | |
| Nayagarh | FW | OFC | WOE | Paddy straw mushroom cultivation | 2 | 2 | | 14 | | | | | | 36 |
| Nayagarh | FW | OFC | WOE | Oyster mushroom cultivation | 1 | 1 | | 25 | | | | | | |
| Nayagarh | RY | ONC | WOE | Value addition for mango | 1 | 1 | | | | | 5 | 13 | 2 | |
| Nayagarh | RY | OFC | WOE | Commercial method of paddy straw mushroom | 2 | 2 | | 23 | | 4 | | | | 13 |
| Nayagarh | IS | OFC | WOE | Spawn production Technology | 1 | 1 | 12 | 3 | | | | | | |

| Name of KVK | Cate-gory | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|-----------|---------------|---------------|---|----------------|-----------------|--------------|---|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Nayagarh | F/FW | OFC | AGF | Growing Eucalyptus for industrial use | 1 | 1 | | | | | | | 25 | 0 |
| Nayagarh | F/FW | OFC | AGF | Multipurpose trees and their cultivation techniques | 2 | 2 | 8 | | 3 | 0 | 15 | 10 | 20 | |
| Nayagarh | F/FW | OFC | AGF | Growing <i>A.mangium</i> for profit maximization | 1 | 1 | 21 | 4 | | | | | | |
| Nayagarh | F/FW | OFC | AGF | Seed collection, processing and grading of important tree species | 1 | 1 | 12 | | 3 | | | | 10 | |
| Nayagarh | F/FW | OFC | AGF | Silvi-pastoral systems | 1 | 1 | 25 | | | | | | | |
| Nayagarh | F/FW | OFC | AGF | Important medicinal plants and their uses | 1 | 1 | 25 | | | | | | | |
| Nayagarh | F/FW | OFC | AGF | Propagation of bamboo through culm cutting method | 1 | 1 | 25 | | | | | | | |
| Nayagarh | F/FW | OFC | AGF | Planting techniques for high value timber species | 1 | 1 | 10 | | 3 | | | | 12 | |
| Nayagarh | F/FW | OFC | AGF | Kendu leaf collection, processing and grading for quality material production | 1 | 1 | | | 3 | | | | 22 | |
| Nayagarh | RY | OFC | AGF | Collection ,processing , grading and preparation of sal and siali leaf plates | 1 | 2 | 10 | | | | | | | 10 |
| Nayagarh | RY | ONC | AGF | Lac culture | 1 | 2 | | | 2 | | 10 | | 8 | |
| Nayagarh | RY | ONC | AGF | Extraction of oils from nontraditional TBO seed species | 1 | 1 | | | | | 13 | 7 | | |
| Nayagarh | IS | OFC | AGF | VSS and their management | 1 | 1 | | | | | | | 15 | |

| Name of KVK | Cate-gory | Training Type | Thematic area | Training Title | No. of Courses | Duration (Days) | Participants | | | | | | | |
|-------------|-----------|---------------|---------------|------------------------|----------------|-----------------|--------------|---|----|----|----|----|--------|----|
| | | | | | | | General | | SC | | ST | | Others | |
| | | | | | | | M | F | M | F | M | F | M | F |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Nayagarh | IS | OFC | AGF | Lac culture techniques | 1 | 1 | 10 | | | | | | | |
| Nayagarh | IS | OFC | AGF | Agroforestry models | 1 | 1 | 15 | | | | | | | |

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

| Name of KVK | Training title | Crop / Enterprise | Identified Thrust Area | Duration of training (days) | Number of Beneficiaries | | | | | |
|-------------|---|-----------------------|---|-----------------------------|-------------------------|---|----|---|--------|---|
| | | | | | SC | | ST | | Others | |
| | | | | | M | F | M | F | M | F |
| Nayagarh | Quality planting material production | Teak, Bamboo | Unavailability of quality planting material | 3 | 2 | 3 | 5 | 3 | 7 | |
| Nayagarh | Bee keeping for self employment | Apiculture | Income generation | 5 | 2 | 1 | 1 | 1 | 10 | 5 |
| Nayagarh | Quality planting material production in fruit crops | Mango, Guava & Citrus | Income generation | 3 | | | | | 20 | |

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

| Name of KVK | Training title | Self employed after training | | | Number of persons employed elsewhere |
|-------------|---|------------------------------|-----------------|----------------------------|--------------------------------------|
| | | Type of units | Number of units | Number of persons employed | |
| Nayagarh | Beekeeping for self employment | Apiary | 10 | 10 | 26 |
| Nayagarh | Mushroom cultivation | Under orchard shade | 5 | 125 | 55 |
| Nayagarh | Quality planting material production in fruit crops | Nursery | 10 | 50 | 38 |
| Nayagarh | Nursery technique for raising of planting material | Forest nursery | 5 | 25 | 10 |

Table 5.4. Sponsored Training Programmes

| Name of KVK | Title | Thematic area (as given in abbreviation table) | Sub-theme (as per column no 5 of Table T1) | Client (FW/RY/IS) | Duration (days) | No. of courses | No. of Participants | | | | | | Sponsoring Agency | Fund received for training (Rs.) |
|-------------|------------|--|--|-------------------|-----------------|----------------|---------------------|---|----|---|----|---------------|-------------------|----------------------------------|
| | | | | | | | Others | | SC | | ST | | | |
| | | | | | | | M | F | M | F | M | F | | |
| Nayagarh | Beekeeping | PLP (RYH) | Beekeeping | RY | 3 | 1 | 18 | | 2 | | | FIAC Nayagarh | 12000 | |

| | | | | | | | | | | | | | | |
|----------|--|-----|----------------------|----|---|---|----|----|---|---|---|----|--|-------|
| Nayagarh | Enhancing water productivity in agriculture for livelihoods | CRP | Water management | FW | 7 | 1 | 18 | 12 | 4 | 3 | | 13 | AICRP on water management, RRTTS(OUA T) Chiplima | 66500 |
| Nayagarh | Farmer scientist interaction on IPM for fruit & shoot borer in brinjal | PLP | IPM | FW | 2 | 1 | 50 | | | | | | ATMA Nayagarh | 20000 |
| Nayagarh | Farmer scientist interaction on red rot management in sugarcane | PLP | IDM | FW | 2 | 1 | 42 | | 3 | | 5 | | ATMA Nayagarh | 20000 |
| Nayagarh | Application of potash in agriculture | SFM | Fertility management | FW | 1 | 1 | 50 | | | | | | Dept. of Soil Sc & Agril. Chemistry, OUAT, Bhubaneswar | 5000 |

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

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

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

| Name of KVK | Title of the training | No. of trainees | Change in knowledge (Score) | | Change in Production (q/ha) | | Change in Income (Rs) | | Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income |
|-------------|---|-----------------|-----------------------------|-------|-----------------------------|-------|-----------------------|-------|---|
| | | | Before | After | Before | After | Before | After | |
| Nayagarh | Raising of vegetable nursery | 25 | 36 | 57 | 166.2 | 212.5 | 47100 | 66200 | 1.3 ha 2. Out of 25 trainees, 14 trainees adopted the nursery raising technique 3. (i) Knowledge – 58% (ii) Production-28% (iii) Income-39% |
| Nayagarh | Planting and post planting management in sweet potato | 20 | 29 | 48 | 116.9 | 169.3 | 24700 | 44450 | 1.2 ha 2. Out of 25 trainees, 9 trainees adopted the nursery raising technique 3. (i) Knowledge – 62% (ii) Production-45% (iii) Income-78% |

| | | | | | | | | | |
|----------|---|----|----|----|--------|--------|--------|--------|---|
| Nayagarh | Planting techniques in turmeric | 25 | 33 | 49 | 72.8 | 102.5 | 45000 | 65500 | 1.3 ha 2. Out of 25 trainees, 8 trainees adopted the nursery raising technique 3. (i) Knowledge – 48% (ii) Production-40% (iii) Income-45% |
| Nayagarh | Use of plant growth regulators in vegetable crops | 25 | 29 | 43 | 171.5 | 218.6 | 43000 | 67500 | 1.4 ha 2. Out of 25 trainees, 12 trainees adopted the nursery raising technique 3. (i) Knowledge – 48% (ii) Production-27% (iii) Income-56% |
| Nayagarh | IPM for major sucking pests in oilseed crop | 25 | 43 | 71 | 11.87 | 15.46 | 29675 | 38651 | 1. Area expanded 30 ha. 2. farmers adopted 15. 3. (i) Knowledge – 65.11% (ii) Production – 30.24% (iii) Income – 30.21% |
| Nayagarh | IPM for major insect pest in sunflower | 25 | 38 | 58 | 14.18 | 11.56 | 16000 | 24030 | 1. Area expended 21 ha. 2. Farmers adopted 21. 3. (i) Knowledge – 52.63% (ii) Production – 22.67% (iii) Income – 50.19% |
| Nayagarh | IPM for fruit and shoot borer in brinjal | 25 | 46 | 77 | 263.46 | 180.13 | 65300 | 98800 | 1. Area expanded 35 ha. 2. Farmers adopted 23 3. (i) Knowledge – 67.39% (ii) Production – 46.26% (iii) Income – 51.31% |
| Nayagarh | IPM for fruit fly for cucurbits | 25 | 41 | 73 | 98.6 | 112.3 | 49300 | 56150 | 1. Area expanded 18 ha. 2. Farmers adopted 21 3. (i) Knowledge – 78.05% (ii) Production – 13.9% (iii) Income – 13.9% |
| Nayagarh | Biological control for sugarcane borers | 25 | 43 | 76 | 986 | 1291 | 117243 | 169600 | 1. Area expanded 17 ha. 2. Farmers adopted 19 3. (i) Knowledge – 76.74% (ii) Production – 30.9% (iii) Income – 44.7% |
| Nayagarh | IDM for root rot & YMV in green gram | 25 | 39 | 67 | 3.25 | 4.42 | 14625 | 19890 | 1. Area expanded 21 ha. 2. Farmers adopted 23 3. (i) Knowledge – 71.79% (ii) Production – 36% (iii) Income – 36% |

| | | | | | | | | | |
|----------|--|----|----|----|-------|-------|--------|--------|---|
| Nayagarh | Management of die-back & fruit rot diseases in chilli | 25 | 35 | 63 | 153.6 | 182.1 | 98340 | 118800 | 1. Area expanded 15 ha. 2. Farmers adopted 22 3. (i) Knowledge – 80% (ii) Production – 18.65% (iii) Income 20.11% |
| Nayagarh | Planting techniques in Sugarcane | 25 | 38 | 72 | 850 | 1100 | 102000 | 132000 | 1. 10 ha 2. Out of 25 trainees, 18 trainees adopted the recommended planting technique. 3. (i) Knowledge – 89% (ii) Production – 29.4% (iii) Income – 29.4% |
| Nayagarh | Ratoon Management in sugarcane | 25 | 40 | 73 | 733 | 972 | 87960 | 116640 | 1. 12 ha. 2. Out of 25 trainees, 20 trainees adopted the recommended ratoon management of practices in sugarcane. 3. (i) Knowledge – 82% (ii) Production – 33% (iii) Income – 33% |
| Nayagarh | Use of bio inoculants in pulses | 25 | 36 | 65 | 2.5 | 4.0 | 15000 | 24000 | 1. 20 ha 2. Out of 25 trainees, 21 trainees adopted the recommended practice of bio inoculation in pulses. 3. (i) Knowledge – 81% (ii) Production – 60% (iii) Income – 60% |
| Nayagarh | Techniques of rouging for increasing seed quality in paddy | 75 | 41 | 74 | 37.5 | 42.0 | 33750 | 37800 | 1. 38 ha 2. Out of 75 trainees, 57 trainees adopted the recommended practice of rouging in paddy. 3. (i) Knowledge – 80% (ii) Production – 12% (iii) Income – 12% |
| Nayagarh | Acid soil management | 15 | 52 | 88 | 2.6 | 4.1 | 15600 | 24600 | 1. 10 ha 2. Out of 15 trainees, 12 trainees adopted the recommended practice of acid soil management. 3. (i) Knowledge – 69% (ii) Production – 58% (iii) Income – 58% |
| Nayagarh | Predatory and weed fish management | 25 | 35 | 46 | 17.5 | 22.1 | 70000 | 79000 | 1. Area expanded (ha)- 23 2. No. of farmers adopted (no.)-12 3. % change in knowledge-31 Production- 26 Income-12.8 |

| | | | | | | | | | |
|----------|---------------------------------------|----|----|----|--------------|--------------|-------|--------|--|
| Nayagarh | Freshwater prawn culture | 25 | 38 | 57 | 0 | 17.4 | 0 | 89000 | 1.Area expanded (ha)-37 2.No. of farmers adopted (no.)-13 3.% change in knowledge-50 Production- Income- |
| Nayagarh | Composite pisciculture | 25 | 43 | 67 | 17.5 | 22.9 | 70000 | 79000 | 1.Area expanded (ha)-49 2.No. of farmers adopted (no.)-17 3.% change in knowledge-56 Production-31 Income-13 |
| Nayagarh | Mixed culture in fish | 25 | 36 | 48 | 20 | 22.3 | 99500 | 148850 | 1.Area expanded (ha)-1.89 2.No. of farmers adopted (no.)-121 3. % change in knowledge-3. 15 |
| Nayagarh | Fish fingerling production | 25 | 25 | 45 | 1.3 lakhs/ha | 1.5 lakhs/ha | 34000 | 43500 | 1. Area expanded (ha)15 2. No. of farmers adopted (no.)-15 3. % change in knowledge -29 |
| Nayagarh | Control of EUS | 25 | 12 | 35 | 20.2 | 22.3 | 98500 | 114500 | 1. Area expanded (ha)-23 2. No. of farmers adopted (no.)-39 3. % change in knowledge -25 |
| Nayagarh | Dry fish and fish pickle preparation | 25 | 12 | 45 | 0 | .05 | 0 | 5000 | 1.Area expanded (ha)-2 2.No. of farmers adopted (no.)-7 3.% change in knowledge-275 Production- Income- |
| Nayagarh | Fish feed preparation | 25 | 22 | 48 | 0 | .03 | 0 | 4500 | 1.Area expanded (ha)- 2.No. of farmers adopted (no.)-2 3.% change in knowledge-118 Production- Income- |
| Nayagarh | Pelleted feed preparation | 20 | 22 | 49 | 0 | .05 | 0 | 5000 | 1.Area expanded (ha) 2.No. of farmers adopted (no.)-2 3.% change in knowledge-122 Production- Income |
| Nayagarh | Fish seed production in cemented tank | 20 | 12 | 52 | 0 | 20000 nos | 0 | 10000 | 1.Area expanded (ha)- 2.No. of farmers adopted (no.)-3 3.% change in knowledge- production Income |

| | | | | | | | | | |
|----------|---|----|----|----|---------|-------------|-------|--------|--|
| Nayagarh | Fish seed production | 20 | 33 | 65 | 1 lakhs | 9 lakhs nos | 5000 | 40000 | 1.Area expanded (ha) 2.No. of farmers adopted (no.)-7 3.% change in knowledge-333 Production-800 Income-700 |
| Nayagarh | Multiple stocking and harvesting in pisciculture | 25 | 34 | 67 | 17.5 | 30.1 | 70000 | 125000 | 1.Area expanded (ha)-35 2.No. of farmers adopted (no.)-11 3.% change in knowledge-97 Production-72 Income-78 |
| Nayagarh | Control of EUS diseases | 25 | 12 | 58 | 15.4 | 18.9 | 67000 | 78000 | 1.Area expanded (ha)-34 2.No. of farmers adopted (no.)-9 3.% change in knowledge-383 Production-23 Income-16 |
| Nayagarh | Pond based farming system | 25 | 45 | 69 | 17.5 | 25.4 | 67000 | 89000 | 1.Area expanded (ha)-43 2.No. of farmers adopted (no.)-18 3.% change in knowledge-53 Production-45 Income-33 |
| Nayagarh | Seed production in plastic hatchery | 25 | 11 | 45 | 0 | 0 | 0 | 0 | 1.Area expanded (ha)-0 2.No. of farmers adopted (no.)-0 3.% change in knowledge-309 Production-0 Income-0 |
| Nayagarh | Freshwater prawn culture | 15 | 35 | 69 | 0 | 17.4 | 0 | 123000 | 1.Area expanded (ha)-37 2.No. of farmers adopted (no.)-13 3.% change in knowledge-97 Production- Income- |
| Nayagarh | Multiple stocking and harvesting in pisciculture | 10 | 23 | 57 | 17.5 | 30.1 | 70000 | 125000 | 1.Area expanded (ha)-35 2.No. of farmers adopted (no.)-6 3.% change in knowledge-147 Production-72 Income-78 |
| Nayagarh | Training on collection and processing of kendu leaves | 25 | 75 | 80 | | | | | 1.All 25 farmers adopted the technique on an existing area of 0.25 ha. 2. Knowledge increase 6.7% |

| | | | | | | | | | |
|----------|---|----|----|----|--|--|--|--|---|
| Nayagarh | Training on sal seed collection, processing and grading | 25 | 30 | 50 | | | | | 1.Three more farmers started collection sal seeds 2. Knowledge increase 67% |
| Nayagarh | Training on watershed management practices | 15 | 70 | 80 | | | | | Knowledge increase 14% |
| Nayagarh | Growing Eucalyptus for industrial use | 25 | 25 | 60 | | | | | 0.4 ha area planted with Eucalyptus. 4 framers planted 250 plants each 58% increasein knowledge |
| Nayagarh | MPTs and their cultivation techniques | 25 | 20 | 33 | | | | | 10 farmers planted 200 nos of various MPTs in their homesteads 39%increase in knowledge |
| Nayagarh | Extraction of oil from tree borne oil seeds(RY) | 20 | 20 | 35 | | | | | No.of farmers adopted – 3 38.5% increase in knowldege |
| Nayagarh | Seed collection, processing and grading of important tree species | 25 | 35 | 60 | | | | | No.of farmers adopted-4 42% increase in Knowledge |
| Nayagarh | Silvipastural systems | 25 | 22 | 40 | | | | | 45% increase in knowledge |
| Nayagarh | Propagation of bamboo through culm cutting method | 22 | 35 | 70 | | | | | No.of farmers adopted-5 50% increase in knowledge |
| Nayagarh | VSS and their management (IS) | 15 | 62 | 80 | | | | | No.of people who adopted-3 20%increasein knowledge |
| Nayagarh | Quality planting material production (LTVT) | 20 | 40 | 75 | | | | | 46% increase in knowledge |
| Nayagarh | Kendu leaf collection, processing and grading for quality material production | 25 | 10 | 40 | | | | | 75% increase in knowledge. 2 farmers started collecting the leaves from the forests near by |

| | | | | | | | | | |
|----------|---|----|----|----|--|--|--|--|--|
| Nayagarh | Collection ,processing grading and preparation of sal and siali leaf plates(RY) | 20 | 40 | 78 | | | | | 15 farmers applied for permission for collecting the sal leaves for plate preparation. 49% increase in knowlwdge |
| Nayagarh | Lac culture(IS) | 15 | 35 | 72 | | | | | 51% increase in knowledge. |
| Nayagarh | Agroforestry models(IS) | 15 | 28 | 75 | | | | | 62% increase in knowledge. 5 Extension personals were found to promote the concept of Integrated farming system in five villages |
| Nayagarh | | | | | | | | | |
| Nayagarh | | | | | | | | | |
| Nayagarh | | | | | | | | | |

6. EXTENSION ACTIVITIES

| Name of the KVK | Activity | No. of activities (Targeted) | No. of activities (Achieved) | Detail of Participants | | | | | | Remarks | | |
|-----------------|--|------------------------------|------------------------------|------------------------|-----|-----------------|----|---------------------|----|---------|--------|-------------|
| | | | | Farmers (Others) | | SC/ST (Farmers) | | Extension Officials | | Purpose | Topics | Crop Stages |
| | | | | M | F | M | F | M | F | | | |
| Nayagarh | Field Day | 8 | 8 | 256 | 68 | 44 | 32 | 10 | | | | |
| Nayagarh | Kisan Mela | 2 | 1 | 113 | 20 | 15 | 2 | 3 | | | | |
| Nayagarh | Kisan Ghosthi | | | | | | | | | | | |
| Nayagarh | Exhibition | 2 | 2 | 100 | 48 | 12 | 13 | 1 | | | | |
| Nayagarh | Film Show | 60 | 60 | 1650 | 322 | 93 | 46 | 27 | 8 | | | |
| Nayagarh | Method Demonstrations | 2 | 2 | 44 | | | | | | | | |
| Nayagarh | Farmers Seminar | 3 | 3 | 50 | 30 | 25 | 23 | 2 | | | | |
| Nayagarh | Workshop | | | | | | | | | | | |
| Nayagarh | Group meetings | 10 | 10 | 156 | 54 | | | | | | | |
| Nayagarh | Lectures delivered as resource persons | 14 | 24 | 200 | 72 | | | | | | | |
| Nayagarh | Newspaper coverage | 6 | 6 | | | | | | | | | |
| Nayagarh | Radio talks | | | | | | | | | | | |
| Nayagarh | TV talks | 8 | 16 | | | | | | | | | |
| Nayagarh | Popular articles | 4 | 4 | | | | | | | | | |
| Nayagarh | Extension Literature | 1 | 1 | | | | | | | | | |
| Nayagarh | Farm advisory Services | 50 | 83 | 87 | | 34 | 18 | | | | | |
| Nayagarh | Scientific visit to farmers field | 27 | 38 | 40 | 42 | 33 | 27 | | | | | |
| Nayagarh | Farmers visit to KVK | 300 | 385 | 252 | 69 | 42 | 22 | | | | | |
| Nayagarh | Diagnostic visits | 70 | 86 | 92 | 37 | 18 | 20 | 62 | 22 | | | |
| Nayagarh | Exposure visits | 3 | 4 | 16 | 4 | 2 | 2 | | | | | |
| Nayagarh | Ex-trainees Sammelan | 2 | 2 | 54 | 24 | 16 | 6 | | | | | |
| Nayagarh | Soil health Camp | 1 | 1 | 47 | | 3 | | 1 | | | | |
| Nayagarh | Animal Health Camp | 1 | 1 | 200 | 50 | | | | | | | |
| Nayagarh | Agri mobile clinic | | | | | | | | | | | |
| Nayagarh | Soil test campaigns | 4 | 4 | 182 | 2 | 10 | | | | | | |
| Nayagarh | Farm Science Club conveners meet | 1 | 3 | 15 | 10 | 12 | 8 | | | | | |

| Name of the KVK | Activity | No. of activities (Targeted) | No. of activities (Achieved) | Detail of Participants | | | | | | Remarks | | |
|-----------------|------------------------------------|------------------------------|------------------------------|------------------------|----|-----------------|----|---------------------|---|---------|--------|-------------|
| | | | | Farmers (Others) | | SC/ST (Farmers) | | Extension Officials | | Purpose | Topics | Crop Stages |
| | | | | M | F | M | F | M | F | | | |
| Nayagarh | Self Help Group conveners meetings | 4 | 4 | | 70 | | 30 | | | | | |
| Nayagarh | Mahila Mandals conveners meetings | | | | | | | | | | | |
| Nayagarh | Celebration of important days | 3 | 2 | 43 | 9 | 8 | 40 | | | | | |

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 |
|----------|-----------------------------|-------------|--------------------------|------------------------------|
| Nayagarh | 10 th April'10 | Half yearly | 500 | 500 |
| Nayagarh | 15 th October'10 | Half yearly | 500 | 500 |

7.2 Literature developed/published

| KVK Name | Date of start | Periodicity | Number of copies printed | Number of copies distributed |
|----------|-----------------------------|----------------------------------|-----------------------------------|------------------------------|
| Nayagarh | 10 th April'10 | Scientific Greengram Cultivation | Mr.T.Badajena, Mr. T khandaitaray | 500 |
| Nayagarh | 15 th October'10 | Blackgram Cultivation | Mr.T.Badajena, Mr. T khandaitaray | 500 |

7.3 Details of Electronic Media Produced

| KVK Name | Type of media (CD / VCD / DVD / Audio-Cassette) | Title of the programme | Number |
|----------|---|---|---|
| Nayagarh | CD/DVD | <ul style="list-style-type: none"> • Akhure Nali sadha roga • Baiganare kandabindha poka o tahara nirakaran • Macha janla utpadana • Rangin macha chasa | <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p> |

8. Production and supply of Technological products

8.1 SEED production NIL

| KVK Name | Major group/class | Crop | Variety | Type of produce (for Seed produced type hear SD; For Planting Material type here PM) | Quantity | Unit for quantity of produces (qtl for SD and Nos for PM) | Value (Rs.) | Provided to No. of Farmers |
|----------|-------------------|------|---------|---|----------|--|-------------|----------------------------|
| Nayagarh | | | | | | | | |
| Nayagarh | | | | | | | | |
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| Nayagarh | | | | | | | | |
| Nayagarh | | | | | | | | |

8.2 Planting Material production

| KVK Name | Major group/class | Name of the crop | Date of sowing | Date of harvest | Area (ha) | Details of production | | | Amount (Rs.) | | Remarks |
|----------|---------------------|------------------|----------------|-----------------|-----------|-----------------------|-----------------|------|----------------|--------------|-------------------------------|
| | | | | | | Variety | Type of Produce | Qty. | Cost of inputs | Gross income | |
| Nayagarh | Forest seedlings | A .mangium | 21.06.10 | | | | Seedling | 2500 | 6250 | 12500 | |
| Nayagarh | Forest seedlings | Teak | 22.06.10 | | | | Seedling | 5600 | 16800 | 28000 | |
| Nayagarh | Forest seedlings | Bamboo | 3.07.10 | | | | Culm cutting | 300 | 240 | 1500 | |
| Nayagarh | Forest seedlings | Eucalyptus | 15.06.10 | | | | Seedling | 110 | 100 | 500 | |
| Nayagarh | Horticultural crops | Mango | 13.8.10 | | | Amrapalli | grafts | 2500 | 21000 | 46250 | |
| Nayagarh | Horticultural crops | Lemon | 28.8.10 | | | Local | grafts | 120 | 620 | 1160 | 4 out of 120 was unsuccessful |

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

| KVK Name | Name of the Product | Qty | Amount (Rs.) | | Remarks |
|----------|--------------------------------------|------------|----------------|--------------|---|
| | | | Cost of inputs | Gross income | |
| Nayagarh | BIOAGENTS | | | | |
| Nayagarh | BIOFERTILIZERS (Vermicompost) | 1.4 tonnes | 4370 | 10650 | Increases organic carbon status of the soil, water holding capacity and increases porosity. |
| Nayagarh | BIO PESTICIDES | | | | |

8.4 Livestock and fisheries production

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

| | | | | | | | |
|----------|-----------------------|-----------------------------|-----------------|-------|-------|-------|--|
| | Goat | | | | | | |
| Nayagarh | Poultry | Vanaraja (backyard poultry) | Vanaraja chicks | 1500 | 40000 | 60000 | |
| Nayagarh | Fisheries | Colour fish (Gold fish) | Gold fish | 300 | 600 | 1500 | |
| Nayagarh | Others (Honey) | <i>Apis cerena indica</i> | Honey | 15kg | 600 | 2250 | |
| | | Papaya | Red lady | 200 | 250 | 1000 | |
| | | Dhingiri mushroom | | 50kg | 800 | 2000 | |
| | | Arrowroot | | 12kg | 60 | 120 | |
| | | Bananna (caulinary) | | 186no | 186 | 372 | |

9. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : YES/NO, If yes, then: Not yet established

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 |
|----------|-----------------|----------------|----------------|-----------------|-----------------|
| Nayagarh | Soil samples | 65 | 65 | 8 | |
| Nayagarh | Water samples | 28 | 28 | 4 | |
| Nayagarh | Plant Samples | | | | |
| Nayagarh | Petiole Samples | 93 | 93 | 12 | |

10. Rainwater Harvesting: NA

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

11. Utilization of Farmers Hostel facilities

Accommodation available (No. of beds) :Under construction

| KVK Name | Months | Year | Title of the training course | Duration of training | No. of trainees stayed | Trainee days (days stayed) | Reason for short fall (if any) |
|----------|--------|------|------------------------------|----------------------|------------------------|----------------------------|--------------------------------|
| Nayagarh | | | | | | | |
| Nayagarh | | | | | | | |
| Nayagarh | | | | | | | |

12. Utilization of Staff Quarters facilities: Not yet constructed

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

13. Details of SAC Meeting

| KVK Name | Date of SAC meeting | No. of SAC members attended | Major recommendations |
|----------|---------------------|-----------------------------|--|
| Nayagarh | 27.11.10 | 17 | <ul style="list-style-type: none"> • Conduct more no of training programmes for rural youth. • Popularize apiculture activity in each KVK adopted villages. • KVK should extend support to soil conservation department for conducting training programmes in water shed areas. • Popularize SRI method on paddy cultivation • Popularise hybrid paddy cultivation • Collect information on level of infestation before & after application of P.P chemicals. • Status of zinc should be ascertained before & after application of zinc in the field • Micronutrient status of all OFT plots should be determined. • Awareness programmes should be made on soil test & soil health mgt. programmes. • More no of farmers are to be include under mobile message programmes • KVK should support the NSCL, Nayagarh for higher cane production & better sugar recovery. • Farmers may be motivated to prepare low cost homestead fish feed ration. |

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

| KVK Name | No. of messages sent | No. of beneficiary | | Major recommendations |
|----------|----------------------|--------------------|------------|-----------------------|
| | | Farmers | Ext. Pers. | |
| Nayagarh | | | | |
| Nayagarh | 78 | 3000 | 100 | |
| Nayagarh | | | | |

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 |
|----------|-----------------------|--------------------------------|----------------------|---|--|--------------------------------------|
| Nayagarh | ATMA | State | 132000 | <ul style="list-style-type: none"> • Preparation of CD/DVD • Vocational training programme on apiculture • Farmers scientist interaction | Sugarcane Brinjal Ornamental Fish Fish fingerling production Beekeeping | |
| Nayagarh | MNREGA | | | | | |
| Nayagarh | NHM | | | | | |
| Nayagarh | RKVY | State | 80000 | FLD Oilseeds & Pulses | Greengram Sunflower | Distributed to the farmers under FLD |
| Nayagarh | DRDA | | | | | |
| Nayagarh | Zila Panchyat | | | | | |
| Nayagarh | Seed village | | | | | |
| Nayagarh | NAIP | | | | | |
| Nayagarh | Climate Change | | | | | |
| Nayagarh | Others (Plz. Specify) | | | | | |

16. Status of Revolving Funds (Rs.)

| KVK Name | Account No. | Opening balance (Rs.) | Closing balance (Rs.) | Current status (Rs.) |
|----------|-------------|--|-----------------------|----------------------|
| Nayagarh | 30437808474 | 50000 | | |
| Nayagarh | | 2 nd received on dt. 19.06.10 Rs.50000 | 72593 | 50000 |

17. Awards & Recognitions

| KVK Name | Name of award /awardee | Type of award (Ind./Group/Inst./Farmer) | Awarding Organizations | Amount received |
|----------|------------------------|---|------------------------|-----------------|
| Nayagarh | Mr. Ullash Sahoo | Best farmer award in OUAT Foundation day celebration, August,2010 | OUAT, BBSR | |
| Nayagarh | | | | |
| Nayagarh | | | | |

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

Name of the KVK, **TITLE, Introduction**, KVK intervention, Output, Outcome, Impact

AQUA SHOP ENTREPRENEURSHIP

INTRODUCTION

Aqua shop popularly known as OSA (One Stop Aquashop) is an entrepreneur where we can get ornamental fishes as well as aquarium keeping related all the accessories including aquaculture related all the inputs such as fertilizers, medicines, feed etc. Nayagarh district is famous for its “Nayagarh fish”. Mr. Bijaya Kumar Parida aged about 34 year seven year back has opened a fiber wielding shop at Nayagarh with bank finance. He was unable to pay the bank dues due to poor business. In the year 2008 from his friend circle he came to know about the ornamental fish breeding & culture training at Krishi Vigyan Kendra, Nayagarh. He came to know that with the ornamental colour fish business with fish breeding and culture can be possible. With the technical support from KVK, Nayagarh he can able to earn something to meet the demands of his family.

INTERVENTION

Keeping his interest and background he was trained by KVK in ornamental fish breeding and culture practice along with preparation of different types of aquarium for selling. He has been taken for field visit to farmer’s field in FLD of ornamental fishes. He was taken for exposure visit to CIFA and other private farmer’s field as well as aqua shops for better knowledge. He was trained for preparation of different shapes and sizes of aquariums as per choice of the customers. He was technically trained for selling different aqua products. Booklet on ornamental fish culture was given to him for better knowledge.

Innovative extension approach:

- i) For setting up the business he was attached to the farmers of adopted villages to procure the colour fishes from their respective unit of different villages.
- ii) He has started his own colour fish breeding unit from a deformed sump pit attached to his house with live bearer species
- iii) He was trained to prepare ornamental glass boxes as per keeping position of the aquarium in the people’s house. The shape may be triangle, circular, half circular etc.

Details of the Technology:

- i) Training related to preparation of aquarium like measurement and glass cutting and fixing the glass with the silicon gel and use of paste gun and maximum utilization of one paste tube for more aquarium.
- ii) Preparation of different types of fiber hoods for the aquarium for more aquarium of the customer.
- iii) Preparation of low cost tanks for breeding of live bearer ornamental fishes and gold fishes.
- iv) In gold fish breeding he was advised to feed more proteinous feed to the brood fishes during the breeding season and they were kept in one tank with aquatic plant of hydrilla and plastic thread bunches. Before putting those plants and plastic threads they were treated with $KMnO_4$ solution. After breeding the young ones were fed with proteinous feed.
- v) The AQUA SHOP was equipped with all types of feed, fertilizer, medicines, equipment necessary for aquaculture practices.

OUTPUT

With the opening of the aqua shop the ornamental fish farmers can sell their ornamental fishes to the aqua shop and getting money from Sri Bijaya Kumar Parida. Now Mr. Parida is selling those fishes in the Nayagarh market as well as in Bhubaneswar market. The fish farmers of Nayagarh district are also getting the fish feed for their culture practice. With this the ornamental fish culture practice also growing well in the district. Now a days he is collecting all the information related to fish for other fish farmers of the district. With this enterprise he is earning Rs. 7000/- to Rs. 8500/- per month.

TECHNOLOGY DIFFUSION

Mr. Parida is happy with this; he is now managing his family well. Interested to start a big scale ornamental fish unit and feed manufacturing unit with other rural young farmers of the district. It is new and only aqua shop to the Nayagarh district. The aqua shop it is also acts as a visiting place for the people of Nayagarh district. It is also act as a disseminating unit in fisheries development of the Nayagarh district. KVK is monitoring his activities in selling the quality fish and fish culture related items and documenting his activities in economic point of view. Etv Annadata regularly telecasting his success story.

IMPACT

With the opening of aqua shop in Nayagarh town the large numbers of young youth has come up with the culture of ornamental fishes in the backyard of homestead land. Some farmers also have started the deformed vermin compost tanks to ornamental fishes culture units. This culture has covered in all the blocks of the district where before two years back there was not a single ornamental fish breeding units in Nayagarh district. In aqua shop case three aqua shops has opened in the district

with a 43nos of ornamental fish breeding units in the districts. With this the school drop out young youths were engaged themselves in the entrepreneurship business.

CONCLUSION

This is a very good low investment aquaculture entrepreneurship business for the young school drop outs in all over the country. With this entrepreneurship a family can sustain in round the year.



One to one training in aquarium preparation



Zonal Coordinator in ornamental fish unit in farmers field



Triangle type aquarim made by Mr. Bijaya Parida



Dean Extension, OUAT and Director, PDCSR in farmers ornamental fish unit



Honble CM, Orissa Felicitating Mr Bijaya Parida for ornamental fish.



NABARD exposure visit from six states to farmers ornamental fish unit

MUSHROOM SUCCESSFUL BACKYARD FARMING

INTRODUCTION

Nayagarh District covers 3,94,110 hectares of geographical area out of which major portion is covered with forest, hilly terrains and high lands. Out of the total cultivated area of 1,36,841 ha paddy alone covers 101640 ha. Therefore a very large quantity of paddy straw is produced which are used mainly as cattle feed and roofing material for thatched houses. Now a day gradually both the number of cattle and thatched houses are decreasing. Hence sufficient quantities of paddy straw are remaining under-utilized.

Paddy straw mushroom comes up naturally in heaps of rotten paddy straw particularly during rainy season. It is considered as a delicacy in many parts of the country and fetches a premium price in the market. The cultivation practice of the crop has been standardized now and it can be cultivated round the year. Due to ignorance of this practice it was not cultivated in Nayagarh District.

INTERVENTION

After the establishment of Krishi Vigyan Kendra attempts have been made to popularize the paddy straw mushroom and oyster mushroom cultivation in this district keeping in view the large quantities of paddy straw available, increasing demand for paddy straw mushroom in local market and to provide employment to rural poor, women groups and unemployed youth. Various activities like on farm testing, front line demonstration, trainings, exposure visits, buyer- seller meet, organization of field day, awareness campaign and formation of farmers club etc were conducted with farmers full cooperation and active participation. Bankers are being motivated to provide necessary loans to needy farmers. The potential & possibility of cultivation and paddy straw mushroom (*Volvariella volvacea*) and its market demand was assessed during kharif season of 2007. Accordingly, training programme on “Commercial cultivation of paddy straw mushroom” was organized in village Nadiali during August 2007 by KVK. Subsequently two SHGs namely ‘Sagarika SHG’ and Banani SHG’ of Nadiali produced paddy straw mushroom profitably. Time to time field visits were conducted to surrounding villages and the interested farmers are advised and guided for mushroom cultivation. Interested farmers visited the KVK demonstration unit in different groups and individually.

After being trained and exposed to the demonstration unit of Krishi vigyan Kendra, Nayagarh Mr. Panu Charan Pradhan and other farmers of nearby villages were very much convinced and show keen interest for paddy straw mushroom cultivation.

Mr. Pradhan alongwith Mr. Mantri. Mr. Ullash Sahoo took the initiative to form a group namely “ Sri Jagannath Chhatu Chashi Sangathan with twenty farmers of nearby villages. Feasibility survey of their backyard land was done; availability of spawn and paddy straw was assessed, necessary technical literature were provided and linkage was facilitated with the Center for Tropical Mushroom Research and Training, Bhubaneswar for getting quality spawn. Plan was prepared for construction of mushroom shade, racks in the mushroom shade, soaking tank and so on. After production started one of the group member took the responsibility of spawn supply another member took the marketing responsibility. It was decided by the group to handover the mushroom to Mr. Ullash Sahoo at Machipada for marketing.

Details of Technology:

i. Infrastructure: A well ventilated thatched roof over pillars with diffused sunlight was constructed. Soaking tank constructed with bricks and cement for soaking of 2 ft x 2 ft sized straw. Two stored bamboo racks were constructed inside the house with 1.5 ft width and required length. Height of 1st and 2nd layers of rack are 1ft and 4 ft respectively. Distance between two racks is 1.5 ft.

ii. Machineries: Straw cutter, water sprinkler, Emersion heater.

iii. Materials: Matured paddy straw, mushroom spawn of good quality, transparent polythene, coarsely grinded whole grain flour.

b. Preparation of bed : Two ft. long white paddy straw were soaked for 12-14 hours in clean water, sterilized with hot water/ steam for 1 hour, excess water decanted by slanting position, spawn were broken into thumb sized pieces are divided into 4 parts, gram powder was divided into 4 parts. Then, spreaded the straw in 2 ft x 2 ft x 6 -7 inch height in either North-South direction or east-west direction. Applied the spawn only in borders leaving 3-4 inch from the extreme borders. Distance between two pieces is 4 inch approximately, one fourth gram powder was applied exactly over the spawn piece. In the 2nd layer except the reverse direction of spreading of straw other process are similar to the first layer. In the third layer the direction of spreading of straw is reverse to the 2nd layer and over it 2 parts of spawn and 2 parts of grain powder were spread keeping 4” distance between them.

c. Maintenance, after care and plucking: Bed covered for 8 days with transparent polythene and then removed and applied clean sprinkled water on the dried portion of the bed. Plucked from the base of mushroom at its egg or bud stage on 11th, 12th & 13th day.

d. Precautions : Disinfestations of mushroom shade with formalin and bleaching powder were made, use calcium carbonate in soaking water to reduce acidity of straw, covered the beds with transparent polythene, plucked at bud stage from bottom.

OUTPUT

Approximately 3.5 quintals to 4 quintals of mushroom are now being produced which were collected and marketed at Nayagarh and nearby markets. The members of the farmers club get a fixed price of Rs. 55/kg of mushroom at their door step by selling to the club.

TECHNOLOGY DIFFUSION

The motivation provided by the success of paddy straw mushroom cultivation by the farmers club have led farmers particularly ladies and unemployed youth of the surrounding area like Dengaragodi, Rajpatna, Lathipada, Ladukesharpur, Muktapur, Hariharpur etc., to take up the enterprise in a commercial scale by taking advice and help from the farmers club.

IMPACT

KVK, Nayagarh has documented this successful intervention and developed a plan to propagate this technology by a training, demonstration, orientation and frequent field visits to other farmers of the district. A programme on the success of this cultivation was also telecasted on E TV Annadata for wider dissemination. Linkages with other marketing and spawn production agencies was done by KVK to bring down the cost of production and increase profit. Paddy straw the by product of mushroom cultivation which is accumulated in a large quantity is being promoted by the KVK to be used as the raw material for vermicomposting. This will go a long way in giving additional return to the farmers. KVK is also refining the cultivation practices through on farm testing.

CONCLUSION

A target of 150 villages and total quantity of 2000 qtls. of mushroom production has been made by KVK, Nayagarh. Cultivation of coloured mushroom and button mushroom will be given importance along with paddy straw and oyster mushroom. There is a great scope for making value added products from mushroom. So this will be given prime importance. As oyster mushroom is less acceptable by the consumers, so cultivation of paddy straw mushroom around the year in poly house and in controlled climatic conditions will be tried soon. Bhubaneswar which is 85kms away from district Nayagarh has a good market potential of mushroom. So it is planed to transport a good quantity of mushroom to Bhubaneswar as it fetches more price per kg of mushroom than Nayagarh market. Puri area is also found to be prone to flood and the straw quality is not upto the mark for

mushroom cultivation. So there is a big scope for selling mushroom at Puri taking from district Nayagarh. Particularly the SHGs are to be targeted, motivated and fully trained for mushroom production and preparing value added products. For achieving the target minimum of 100nos of poly house & 10 nos of mushroom spawn unit are to be established. The individual growers is to be given due attention for more production and new entrepreneurs are to be developed.



AQUA SHOP THE ORNAMENTAL ENTERPRENEUR

1. Name of the Enterprise/Practice/Technology : Ornamental fish breeding selling unit

2. Name and address of the farmer: Sri Bijaya Kumar Parida
S/o Sri Antaryami Parida
Vill: Nuagaon, Block: Nayagarh
Dist: Nayagarh

3. Initial Status: Mr. Bijaya Kumar Parida aged about 34 year is a young man has stopped his education after matriculation. Seven year back he has opened a fiber wielding shop at Nayagarh with bank finance. Within two year of opening of shop due to insufficient business he has closed the shop. He was unable to pay the bank dues and shop rent. He was managing the family somehow. Last year from his friend circle he came to know about the ornamental fish breeding & culture training at Krishi Vigyan Kendra, Nayagarh.

4. KVK intervention (Mandatory activities OFT, FLD, Training): Keeping his interest and background he was trained in ornamental fish breeding and culture practice along with preparation of different types of aquarium for selling. He has been taken for field visit to farmers field in FLD of ornamental fishes. He was taken for exposure visit to CIFA and other private farmers field as well as aqua shops for better knowledge. He was trained for preparation of different shapes and sizes of aquariums as per choice of the customers. He was technically trained for selling different aqua products. Booklet on ornamental fish culture was given to him for better knowledge.

5. Innovative extension approach:

- i) For setting up the business he was attached to the farmers of adopted villages to procure the colour fishes from their respective unit of different villages.
- ii) He has started his own colour fish breeding unit from a deformed sump pit attached to his house with live bearer species
- iii) He was trained to prepare ornamental glass boxes as per keeping position of the aquarium in the peoples house. The shape may be triangle, circular, half circular etc.

6. Details of the Technology:

- i) Training related to preparation of aquarium like measurement and glass cutting and fixing the glass with the silicon gel and use of paste gun and maximum utilization of one paste tube for more aquarium.

- ii) Preparation of different types of fiber hoods for the aquarium for more aquarium of the customer.
- iii) Preparation of low cost tanks for breeding of live bearer ornamental fishes and gold fishes.
- iv) In gold fish breeding he was advised to feed more proteinous feed to the brood fishes during the breeding season and they were kept in one tank with aquatic plant of hydrilla and plastic thread bunches. Before putting those plants and plastic threads they were treated with $KMnO_4$ solution. After breeding the young ones were fed with proteinous feed.
- v) The AQUA SHOP was equipped with all types of feed, fertilizer, medicines, equipment necessary for aquaculture practices.

7. Adoption of Technology and benefit to the farmers : With the opening of the aqua shop the ornamental fish farmers can sell their ornamental fishes to the aqua shop and getting money from Sri Bijaya Kumar Parida. Mr. Parida selling those fishes in the nayagarh market as well as bhubaneswar market. The fish farmers of nayagarh district also getting the fish feed for their culture practice. With this the ornamental fish culture practice also growing well in the district. Now a days he is collecting all the information related to fish for other fish farmers of the district. With this per month he is earning Rs. 7000/- to Rs. 8500/- per month.

8. Farmers reaction and feed back: Mr. Parida is happy with this, he is now managing his family well. Interested to start a big scale ornamental fish unit and feed manufacturing unit with other rural young farmers of the district.

9. Extent of diffusion effect of newly adopted technology: It is new and only aqua shop to the nayagarh district. The aqua shop it is also acts as a visiting place for the people of nayagarh district. It is also act as a disseminating unit in fisheries development of the nayagarh district.

10. Follow up action by KVK: KVK is monitoring his activities in selling the quality fish and fish culture related items and documenting his activities in economic point of view. Etv Annadata regularly telecasting his success story.



One to one training in aquarium preparation



Zonal Coordinator in ornamental fish unit in farmers field



PD, DRDA with zilla parishad members in KVK ornamental fish unit



Dean Extension, OUAT and Director, PDCSR in farmers ornamental fish unit



Commissoner, Govt. of Orissa and Collector, Nayagarh in observing the ornamental fishes



NABARD exposure visit from six states to farmers ornamental fish unit



Honble CM, Orissa Felicitating Mr Bijaya Parida for ornamental fish.



Triangle type aquarim made by Mr. Bijaya Parida

19. Details of KVK Agro-technological Park

| 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

| Name of KVK | Name of Visitor | Date of Visit | Remarks |
|-------------|------------------------|---------------|---------------------------------------|
| Nayagarh | Dr. Mrinalini Darshwal | 24.05.10 | Collector, Nayagarh |
| | Dr. S.S.Nanda | 22.06.10 | Dean of Extension, OUAT, BBSR |
| | Prof.D.P.Ray | 29.09.10 | Hon'ble Vice Chancellor, OUAT,BBSR |

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

22. E-CONNECTIVITY: NA

| Name of KVK | Number and Date of Lecture delivered from KVK Hub | | | | 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 Activities | Number of Participants | Related crop/livestock technology |
|-------------|---|-------------------|------------------------|-----------------------------------|
| | Gosthies | | | |
| | Awareness campaign on biological control | 2 | 100 | Paddy,sugarcane |
| | Exhibition | 1 | 50 | All activities of KVK |
| | Film show | 3 | 100 | Organic farming,vermcomposting |
| | Road show | 1 | - | All activities of KVK |
| | Farmers scientist interaction on SRI | 1 | 50 | Paddy |
| | Animal health camp | 1 | 50 | Livestock |
| | Distribution of Literature (No.) | | | |
| | Distribution of Seed (q) | | | |
| | Distribution of Planting materials (No.) | 200 | 100 | Teak,Mangium |
| | Bio Product distribution (Kg) | | | |
| | Bio Fertilizers (q) | | | |
| | Distribution of fingerlings (No) | | | |
| | Distribution of Livestock specimen (No.) | | | |
| | Total number of farmers visited the technology week | | 450 | |

24. INTERVENTIONS ON DROUGHT MITIGATION: NA

Introduction of alternate crops/varieties

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

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 | | |

Farmers-scientists interaction on livestock management

| Name of KVK | Livestock components | Number of interactions | No.of participants |
|-------------|----------------------------|------------------------|--------------------|
| | Dairy Management | | |
| | Disease management | | |
| | Feed and fodder technology | | |
| | Poultry management | | |
| | | | |
| | | | |

Animal health camps organised

| Name of KVK | Number of camps | No.of animals | No.of farmers |
|-------------|-----------------|---------------|---------------|
| Navagarh | | | |
| | | | |
| | | | |

Seed distribution in drought hit states

| Name of KVK | Crops | Quantity (qtl) | Coverage of area (ha) | Number of farmers |
|-------------|-------|----------------|-----------------------|-------------------|
| | | | | |
| | | | | |
| | | | | |

Seedlings and Saplings distributed

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

Bio-control Agents

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

(e) Bio-Fertilizer

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

(f) Verms Produced

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

(g) Large scale adoption of resource conservation technologies

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

(h) Awareness campaign

| Name of KVK | Meetings | | Gosthies | | Field days | | Farmers fair | | Exhibition | | Film show | |
|-------------|----------|----------------|----------|----------------|------------|----------------|--------------|----------------|------------|----------------|-----------|----------------|
| | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers | No. | No. of farmers |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

25. **Status of KVK Website:** Already having website/under construction
If available, please provide the address of website: No

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