

ANNUAL PROGRESS REPORT

**April 2014
to
March 2015**

Krishi Vigyan Kendra, Nayagarh, Odisha

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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 color cells in summary table need not to be filled.**
- 13. Crop name should be spelled correct and standard English name should be used i.e Cereals, Pulses, Oilseed:- Rice (not use Paddy), Wheat, Barley, Kodo, Kutki, Maize, Jwar, Bajra, Pigeon pea (not use Tur, Arhar, Red gram), Blackgram (not use Urd), Greengram (not use Moong/Moongbean), Chickpea (not use Horse gram, Gram, Chana), Field pea, Horse gram (Kulthi), Lentil, Mustard (not use Rai, Sarsoan), Soybean, Linseed, Groundnut, Sesame (not use Til), Niger (not use Ram Til), Safflower (not use Kusum).
Vegetable :- Vegetable pea, Bottle guard, Bitter guard, Okra (not use Bhindi or Ladies finger).
Fruits :- Mango, Guava, Custard apple, Pear etc.
Spices :- Black Peeper, Turmeric, Ginger, Cardamom etc.**

REPORTING PERIOD – April 2014 to March 2015

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2014-15

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	On Farm Testing			
	Proposed OFT	22	132	
	On Going OFT	02	12	
	Technologies assessed (Completed OFT)	18	106	
	Technologies refined	-	-	
	On farm trials conducted	20	118	
2	Frontline demonstrations			
	Proposed Frontline demonstrations	24	200	
	On Going Frontline demonstrations	01	10	
	FLDs conducted on crops	13	130	
	Area under crops (ha.)	16.4,10 units	130	
	FLD on farm implement and tools	-	-	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	02	13	
	FLD on Fisheries - Finger lings	03	13	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	01	10	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	02	15	
3	Training programmes	No. of Course	Duration (days)	Participants
	Farmers /Farm women	69	105	1725
	Rural youth	8	16	160
	Extension personnel/ In service	8	16	200
	Vocational trainings	4	18	80
	Sponsored Training	8	24	200
	Total	99	183	2405
		No. of programmes	Participants	
4	Extension Programmes	830	14064	
5	Production of technology inputs etc	Qty	Beneficiaries (nos.)	
	Seed (qt.)	0.6qtl	14	
	Planting material produced (nos.)	35553	1188	
6	Livestock	Qty	Beneficiaries (nos.)	
	Livestock strains (Nos)	-	-	
	Milk Yield - Cow, Buffelo etc. (in liter)	-	-	
	Fish (Kg.)	-	-	
	Colour fishFingerlings (nos.)	500	12	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	-	-	
	Chicks etc. (nos.)	1610	153	

7	Bio Products	Qty	Beneficiaries (nos.)	
	Bio Agents -Earth worm (Kg.)	01	05	
	Trichoderma (kg.)	-	-	
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)	1975	97	
	Bio Pesticide-Panchgavya, Neem Extract , Neem oil etc.(lit.)	-	-	
8	Any other significant achievement in the Zone	Nos.	Participants/ beneficiaries	
	Award (Best KVK award and scientist and farmer's award)	2	2	
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	34	7012	
	KVK News letter	04	2000	
	SAC Meetings conducted	02	44	
	Soil sample tested	108	53	
	Water sample tested	-	-	
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-	-	
	KVK-KMA (Message and beneficiaries)	169	1277	
	Convergence programmes	-	-	
	Sponsored programmes	08	200	
	KVK Progressive Farmers interaction	02	100	
	No. of Technology Week Celebrations	01	635	
	Attended HRD activities organized by ZPD	02	02	
	Attended HRD activities organized by DES	09	09	
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	03	03	
9	Current status of Revolving Funds (Amt. in Rs.)		2,79,118	
10		No. of blocks	No. of villages	
	Outreach of KVK in the District	08	152	
11		ICAR	SAU	Others
	No. of important visitors to KVK (nos.)	01	01	01
12		Working (Yes/No)	No. of Update	
	Status of KVK Website	No	-	
13		Application received	Application disposed	
	Status of RTI (nos.)	-	-	
14		Query received	Query dissolved	
	Citizen Charter (nos.)	312	312	
15		Working (Yes/No)	No. of programme viewed	
	E-connectivity	No	-	
16		Filled	Vacant	
	Staff Position	16	-	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)		08	
18	Publication received from ICAR /other organization (nos.)		56	
19		Particulars	Organization	
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	01	SAU, Agril. Dept., Nayagarh	

GENERAL INFORMATION

1.1. Staff Position (as on date)

Summary of Staff position in KVK, Nayagarh as on March, 2015

Name of KVK	Sanctioned Posts	PC (1)		SMS (6)		PA (3)		Admn. (6)		Total	
		Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled	Sanc.	Filled
Nayagarh	16	1	1	6	6	3	3	6	6	16	16

Name of KVK	Sanction post	Name of the incumbent	Discipline	Higist degree	Subject of specilization	Pay scale	Present pay	Date of joiing	Per./Temp.	Category
Nayagarh	Programme Coordinator	Mrs. Shelly Dash	Programme Coordinator	M.A	Home Sc.	37400-67000	51600	17.07.09	Temporary	Other
Nayagarh	Subject Matter Specialist1	Dr. Swagatika Sahu	SMS (Fisheries)	PhD	Fisheries	15600-39100	18320	9.11.12	Temporary	Other
Nayagarh	Subject Matter Specialist2	Mr. Arjuna Mohan Prusti	SMS (Plant Breeding)	M. Sc (Ag)	Plant Breeding	15600-39100	20590	01.09.08	Temporary	Other
Nayagarh	Subject Matter Specialist3	Mr. Trinath Khandaitaray	SMS (Plant Protection)	M. Sc (Ag)	Entomology	15600-39100	21390	18.07.09	Temporary	Other
Nayagarh	Subject Matter Specialist4	Mr. Tribijayi Badjena	SMS (Agril. Extension)	M.Sc (Ag)	Agril. Extension	15600-39100	18320	07.04.10	Temporary	Other
Nayagarh	Subject Matter Specialist5	Mr. Amitabh Panda	SMS, Horticulture	M.Sc (Ag.)	Horticulture	15600-39100	22220	04.04.11	Temporary	Other
Nayagarh	Subject Matter Specialist6	Mrs. Jyotrimayee Udgata	SMS, Home Science	M.Sc (Home Sc)	Family Resource management	15600-39100	21390	17.07.14	Temporary	Other
Nayagarh	Programme Assistant	Mr. Bikram Keshari Parimanik	Pro. Asst. (Forestry)	B.Sc	Forestry	9300-34800	12930	16.10.06	Temporary	Other
Nayagarh	Farm Manager	Mr. Somya Ranjan Pattnaik	Farm Manager	M.Sc (Ag.)	Horticulture	9300-34800	12930	-	Temporary	Other
Nayagarh	Computer Programmer	Mrs. Rosalin Praharaaj	Pro. Asst. (Computer)	B.Sc (PGDCA, MCA)	Computer	9300-34800	13450	10.03.06	Temporary	Other
Nayagarh	Accountant / superintendent	Mr. R.M. Mishra	S.O-	M.A (B.Ed)-	-	9300-34800	14000	14.02.14	Temporary	Other
Nayagarh	Stenographer	Miss S. Mallick	Jr. Steno Cum Computer Operator	B.A	-	5200-20200	5430	12.02.14	Temporary	SC
Nayagarh	Driver	Mr. Rabi Narayan Mohapatra	Driver/Mechanic	Intermediate	-	5200-20200	6350	22.07.08	Temporary	Other
Nayagarh	Driver	Mr. J. Pradhan	Driver/Mechanic	Matric	-	5200-20200	6860	26.6.13	Temporary	Other
Nayagarh	Supporting staff	Mr. Gunanidhi	Peon/Watchman	ME	-	4440-7440	5790	19.12.07	Temporary	Other

Name of KVK	Sanction post	Name of the incumbent	Discipline	Highest degree	Subject of specialization	Pay scale	Present pay	Date of joining	Per./Temp.	Category
		Bauta								
Nayagarh	Supporting staff	Mr. Harihara Pradhan	Peon/Watchman	ME	-	4440-7440	5790	1.12.14	Temporary	Other

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

KVK Name	Agro-climatic zone	No. of Blocks	No. of Panchayats	Population	Literacy	SC and ST Population	No. of farmers	Average land holding
Nayagarh	East and South Eastern Coastal Plain Zone (ESCPZ)	8	180	9,62,000	79.12	1,72,245	1,44,083	0.94 ha

1.	Geographical area of the district	3,94,110 ha (4242 sq.km)
2.	Height from mean sea level	90 mtr.
3.	No. of subdivisions	1
4.	No. of Tahasils	8
5.	No. of NAC	2
6.	No. of CD blocks	8
7.	No. of GPs	180
8.	No. of revenue villages	1531
9.	Population in the district 2011 census	9,62,000
	Male	5,02,000
	Female	4,60,000
10.	ST population	5.88%, 50,836
11.	SC population	14.04%, 1,21,409
12.	Literacy	79.12%
	Male	82.66%
	Female	57.64%
13.	Annual Rainfall	1354.3mm
14.	Max temperature	44.0 ⁰ C
15.	Minimum temperature	11.0 ⁰ C
16.	Population density	247/sq. km.

17.	Area under forest	38,086 ha.
18.	Area under cultivation	1, 36,841 ha.
	High land	53,192 ha
	Medium land	46,866 ha
	Low land	36,783 ha
19.	Kharif irrigated area	43,577 ha.
	Rabi irrigated area	14,483 ha.
20.	Classification of land holding	
	Less than 1 ha.	1,13,730 no.

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	Giridipalli	2011	Khandapada	35km	625	575
Nayagarh	Bajrakote	2011	Nayagarh	30km	700	658
Nayagarh	Anlamada	2012	Khandapada	12km	570	435
Nayagarh	Darpanarayanpur	2012	Ranpur	35km	625	575
Nayagarh	Beguniapatana	2014	Nayagarh	20Km	733	641
Nayagarh	Katrajhari	2015	Odagaon	50Km	645	591

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

KVK Name	THRUST AREA
Nayagarh	Varietal substitution in rice, particularly for rain-fed upland and medium land types.
Nayagarh	Crop diversification from rice to pulse (Arhar), oilseed (Sunflower, ground nut) sugarcane and tuber crop based cropping systems.
Nayagarh	Integrated nutrient management by incorporation of crop residues/forest litters, green manuring, improvised composting and balanced use of inorganic and bio-fertilizers.
Nayagarh	Popularizing eco-friendly pesticides and bio-control agents and IPM practices for borers in sugarcane, rice and brinjal.
Nayagarh	Revolutionizing fresh water fish farming by including freshwater prawn (Scampi) in composite pisciculture system.
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.
Nayagarh	Rejuvenating mango and cashew orchards and developing Alternative Land Use system models.
Nayagarh	Scientific method of fish production with freshwater prawn culture, integrated farming system research and stunted fingerlings & yearlings stocking.
Nayagarh	Income generation from backyard poultry for economic upliftment.
Nayagarh	Raising of fuel wood, timber and fodder yielding species to meet the local demand and production, value addition of minor forest products.

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

KVK Name	Problem identified	Methods of problem identification	Location Name of Village & Block
Nayagarh	Rice : Low grain yield - poor nutrition- Heavy weed infestation-High grain loss – BPH, stem borer, sheath blight/rot, blast & BLB	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Anlamada (Khandapara) Darpanarayanpur (Ranpur)
Nayagarh	MOONG : Low productivity – Little Nutrition- High storage loss – Pulse beetle, root rot & YMV incidence	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Giridipalli (Khandapara) Darpanarayanpur (Ranpur)
Nayagarh	SUGARCANE : Increase in production cost – Closer spacing-High Seed requirement – Manual weeding-Low MC production – Poor N management- Incident of ESB, IB & SB.	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Mardarajpur (Nayagarh) Anlamada (Khandapara)
Nayagarh	Maize: Low productivity, use of low yielding non adoptable varieties, imbalanced nutrient management, heavy weed infestation in early stage. Severe pest & disease incidence throughout the crop growth.	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Giridipalli (Khandapara) Maichheli(Nuagaon)
Nayagarh	COLOCASIA : Increase in production cost – Manual weeding-Growth retardation Blight & Corm Rot	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Biridi (Khandapara) Ranipatna(Khandapara)
Nayagarh	TUBER CROPS : Deep rooted longer duration Yam - poor acceptance- less yield potential Sweet Potato – Poor acceptance, Slow multiplication rate, weevil incidence	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Giridipalli (Khandapara) Shikharpur (Khandapara)
Nayagarh	GROUNDNUT : Increased production cost – Manual weeding-Poor plant stand – Early stage wilting	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Melambo,(Nayagarh) Ratanpur,(Khandapara)
Nayagarh	SUNFLOWER : Low yield – Increased Chaffiness-pest & disease incidence	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Anlamada (Khandapara) Darpanarayanpur (Ranpur)
Nayagarh	COCONUT : Fruit drop- Eriophyid mite attack-Low yield in local types	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Giridipalli (Khandapara) Bajrakote (Ranpur)
Nayagarh	MANGO: Fruit drop- Mango hopper & Bark eating caterpillar	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Lingiribari(Nuagaon) Shikharpur(Khandapara)
Nayagarh	BRINJAL : Fruit and Shoot borer Incidence- Wilting	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Giridipalli (Khandapara) Jadupur (Nayagarh)
Nayagarh	COLE CROPS: Tobacco caterpillar incidence- Low yield in local types	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Begunia Patna(Nayagarh)) Raj Patna(Nayagarh)
Nayagarh	TOMATO: Low yielding local types, severe wilt & fruit borer incidence.	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Giridipalli (Khandapara) Begunia Patna (Nayagarh)

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	Balugaon(Nayagarh) Suamadhupa(Bhapur)
Nayagarh	FISHERY: Poor pond management Predatory and weed fish in fish ponds High seed mortality Improper stocking ratio and density Poor feeding management Single crop culture practice, Less income from pisciculture Less income from fish culture without any foreign money No fish yield from backyard water logging area Less income of SHGs from fisheries	PRA Survey, Group Discussion, Diagnostic Visit, Farmers club matting	Iaxmi Prasad(Khandapara) Khedapara(Nayagarh) Damuni (Nuagaon) Darpanarayanpur (Ranpur)
Nayagarh	OTHERS: Underutilization of orchard shade (cashew and mango)-Straw scarcity for mushroom production - Lack of income generating vocation for women & rural youths- 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, SHG Group meet, Interaction	Patulisahi(Nuagaon) Mahipur(Nuagaon)

2. On Farm Testing

2.1 Information about OFT

KVK name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment/Refinement)	Thematic Area	Crop/enterprise	Farming Situations	No. of trials	Results (q/ha)			Net Returns (Rs./ha)			Recommendations
										FP (T ₁)	RP (T ₂ /T ₃ /T ₄ /T ₅)	T ₃	FP (T ₁)	RP (T ₂ /T ₃ /T ₄ /T ₅)	T ₃	
Nayagarh	2014-15	Kharif	Yield (26.31q/ha) plateau in favourable shallow low land rice (25000 ha), non exploitation of standard heterosis (10 q/ha) in rice	Assessment of rice hybrids for shallow low land	Assessment	Varietal evaluation	Rice	shallow low	06	47.2	58.6 62.2 58.4 61.8	-	26742	37941 40137 37669 42293	-	This OFT will be repeated in kharif 2015 for further evaluation
Nayagarh	2014-15	Kharif	Low production from traditional system, Non-compatibility crop sequence, Poor soil and fertilizer management	Assessment of intensified cropping system	Assessment	ICM	Rice, maize, ladies finger, cowpea, tomato	Rainfed	05		continuing					
Nayagarh	2014-15	Kharif	Low yield (6.44 q/ha) due to use of long duration old and obsolete Arhar Local var.	Assessment of Arhar varieties in rainfed upland	Assessment	Varietal evaluation	Arhar	Rainfed upland	07	10.66	12.52	-	19878	25376	-	This OFT will be repeated in kharif 2015 for further evaluation

			Kandula in upland (320 ha) without maintaining purity													
Nayagarh	2014-15	Rabi	Less yield (71.9 t/ha) due to low micronutrient (Sulphur) content in soil (< 10 ppm S)	Assessment of micronutrient (sulphur) application in sugarcane var. Raghunath	Assessment	Nutrient management	Sugarcane	Irrigated medium	07			continuing				
Nayagarh	2014-15	Kharif	Heavy incidence and less yield due to BLB	Assessment of IDM Measure for BLB in Rice	Assessment	IDM	Rice	Rainfed Medium	07	43.5	51.7 55.8		24360	31466 35703		This OFT will be repeated in kharif 2015 for further evaluation
Nayagarh	2014-15	Kharif	Less yield and less marketability due to phomopsis blight in brinjal	Assessment of fungicides for Phomopsis blight in brinjal	Assessment	IDM	Brinjal	Rainfed upland	07	265.6	321.5 307.8		64347	84566 78088		This OFT will be repeated in kharif 2015 for further evaluation
Nayagarh	2014-15	Rabi	Indiscriminate use of granular insecticides leads to residual toxicity	Assessment of IPM for thrips in chilli	Assessment	IPM	Chilli	Irrigated medium	07	98.5	121.8 118.3		64276	88812 85178		This OFT will be repeated in Rabi 2015-16 for further evaluation
Nayagarh	2014-15	Rabi	Indiscriminate use of granular insecticides leads to	Assessment of insecticide for diamond	Assessment	IPM	Cauliflower	Irrigated medium	07	163.4	192.8 199.7		71603	93929 99839		This OFT will be repeated in Rabi 2015-16 for

			residual toxicity in crops	backed moth in cauliflower												further evaluation
Nayagarh	2014-15	Kh arif	Less no. of fruits /plant, Low yield (1kg per plant per season),50% area affected	Assessment of INM in spine gourd under upland condition	Assessment	Varietal evaluation	Ivy gourd	Irrigated upland	07	1.28kg/tree	1.43kg/tree 1.70	43/tree	57 71			INM schedule to be followed
Nayagarh	2014-15	Kh arif	Low production from local variety (40% area affected, 378 Ha, Y-21.45MT/Ha) a) Non uniform maturity High incidence of disease in sucker raised cultivar	Assessment of tissue cultured banana under upland condition	Assessment	Varietal evaluation	Banana	Irrigated Upland	05	Continuing						
Nayagarh	2014-15	Ra bi	High incidence of bolters , double bulbs and neck rot, low yield from local cultivar (A-232Ha,P-2756MT, Y-11.88T/Ha), 23% area	Assessment of onion var. Bhima Shakti in rice onion cropping system	Assessment	Varietal evaluation	Onion	Irrigated upland	07	239.5	356.8 283.7	131050	212300 158830			Variety bhima Shakti with proper mgt. practices to be followed

			affected.												
Nayagarh	2014-15	Kh arif	Less no. of fruits /plant, low yield from Laxmi (A-2902ha,P-40299MT, Y-10.88t/ha), 28% area is affected by the problem.	Assessment of tomato hybrid in irrigated medium land situation	Assessment	Varietal evaluation	Tomato	Irrigated medium land	07	298.2	812.5 439.8		76600	221900 164380	Heavy fruiting but poor keeping quality
Nayagarh	2014-15	Kh arif	Low yield due to single harvest with Indian major carps (IMC) like catla, rohu, mrigal No intermediary income during the culture period Avg. 65% ponds of ACZ is associated with the problem	Assessment of the performance of new species in carp polyculture system	Assessment	Varietal evaluation	IMC	Clay loam rainfed	04	25.2	28.6 27.1 28.05		111200	140200 126900 136200	This OFT will be repeated in kharif 2015 for further evaluation
Nayagarh	2014-15	Kh arif	Less fish production (10q/ha) due to insufficient feed as feed cost is more	Assessment of production performance by low cost	Assessment	Production & management	IMC	Clay loam rainfed	05	20.46	28.6 30.37		90000	107400 114380	Low cost feed such as sesamum oilcake, mustard oilcake reduce cost

			(Rs 35000/- per acre), 60% of water area of Nayagarh district affected by this problem	locally available feed in composite pisciculture												of feed and enhance yield
Nayagarh	2014-15	Rabi	Less production of plankton cause less productivity	Assessment of micronutrient for production of plankton in fish pond	Assessment	Production & management	IMC	Pond based	05	23.62	26.54		100370	120050		Application of 20 basket of RCD + 10 kg SSP + 1kg micronutrient (pond culture) would enhance plankton production in fish pond
Nayagarh	2014-15	Rabi	Low production of meat and egg for livelihood security	Assessment of backyard duckery rearing	Assessment	Nutrient management	White pekin	Open yard	10	30kg/20 birds	51kg/20 birds		2500	3250		For boiler purpose white pekin can rear for livelihood food security in backward rearing

2.2 Economic Performance

KVK name	OFT Title	Parameters				Average Cost of cultivation (Rs/ha)			Average Gross Return (Rs/ha)			Average Net Return (Rs/ha)			Benefit-Cost Ratio (Gross Return / Gross Cost)		
		Name and unit of Parameter	FP (T ₁)	RP (T ₂)	RP (T ₃)	FP (T ₁)	RP (T ₂ /T ₃)/T ₄ /T ₅)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂ /T ₃)/T ₄ /T ₅)	Refined Practice, if any (T ₃)	FP (T ₁)	RP(T ₂ /T ₃)/T ₄ /T ₅)	Refined Practice, if any (T ₃)	FP (T ₁)	RP (T ₂ /T ₃)/T ₄ /T ₅)	Refined Practice, if any (T ₃)
Naya garh	Assessment of rice hybrids for shallow low land	No of panicles/m ²	192.4	206.8 229.6 205.2 219.6		37450	41755 44455 41755 41755		64192	79696 84592 79424 84048		26742	37941 40137 37669 42293		1.71	1.90 1.90 1.90 2.01	
Naya garh	Assessment of intensified cropping system	continuing															
Naya garh	Assessment of Arhar varieties in rainfed upland	Days to maturity (Days)	237	173		25960	28460	-	45838	53836	-	19878	25376	-	1.77	1.89	-
Naya garh	Assessment of micronutrient (sulphur) application in sugarcane	continuing															

	e var. Raghunath																
Naya garh	Assessment of IDM Measure for BLB in Rice	BLB incidence (%)	22.3	9.5 7.8		34800	38846 39233	-	59160	70312 74936	-	24360	31466 35703	-	1.70	1.81 1.90	
Naya garh	Assessment of fungicides for Phomopsis blight in brinjal	Phomopsis blight (%)	20.3	7.5 8.1		68453	76184 75812	-	132800	160750 153900	-	64347	84566 78088	-	1.94	2.11 2.03	-
Naya garh	Assessment of IPM for thrips in chilli	No. of thrips/plant	18.5	4.1 7.8		83474	93888 92272	-	147750	182700 177450	-	64276	88812 85178	-	1.77	2.03 1.89	-
Naya garh	Assessment of insecticide for diamond backed moth in cauliflower	DBM infestation (%)	22.5	8.7 7.7		91797	98871 99861	-	163400	192800 199700	-	71603	93929 99839	-	1.78	1.95 2.02	-
	Assessment of INM in spine gourd under upland condition	Avr. Fruit weight (gm)	14.0	15.3 16.6		34/tree	36/tree 40/tree		77@ Rs.60/kg	<u>93@Rs</u> <u>.65/kg</u> 111	-	43/tree	57/tree 71/tree	-	2.3	2.6 2.8	-
	Assessment of tissue	Continuing															

	cultured banana under upland condition																
	Assessment of onion var. Bhima Shakti in rice onion cropping system	Avg. bulb wt (gm)	65	85 72		84500	108800 96500		215550	321100 255330	-	131050	212300 158830	-	2.5	2.95 2.65	
	Assessment of tomato hybrid in irrigated medium land situation	No of fruits/plant	30	63 35		72500	103100 99500	-	149100	325000 263880	-	76600	221900 164380	-	2.0	3.15 2.6	
Naya garh	Assessment of the performance of new species in carp polyculture system	-	-	-	-	103000	105000 105000		214200	245200 232400 241200		111200	140200 126900 136200		2.08	2.34 2.20 2.30	

Naya garh	Assessment of performance by low cost locally available feed in composite pisciculture	FCR	3.79	2.71 2.47		90000	150000 159000		180000	257400 273380		90000	107400 114380		2.11	1.69 1.72	
Naya garh	Assessment of micronutrient for production of plankton in fish pond	Plankton conc. (ml/50lit)	1.8	2.3		100400	108000		200770	228050		100370	120050		2.0	2.1	
Naya garh	Assessment of backyard duckery rearing	Average body weight (kg)	1.5	2.6		800	1280		3300	4250		2500	3250		4.12	4.25	

2.3 Information about Home Science OFT:

KVK Name	Year	Season	Problem diagnose	Title of OFT	Category of technology (Assessment / Refinement)	Thematic Area	Details of Technology Selected for Assessment	Characteristics of Technology / Variety / Product / Enterprise	Farming / Enterprise Situation	No. of trials	Recommendations
Nayagarh	2014	Kharif	Low income due to store grain pest attack in rice	Assessment of storage practices in store grain pest management in rice	Assessment	Store grain pest management	T ₁ -FP(No use of any measures) T ₂ -RP(Use of TNAU traps) T ₃ -RP(Use of EDB ampoules)	T ₂ -TNAU trap is a perforated GI cylinder with streamlined plastic cap T ₃ -Ethylene Di Bromide ampoules are chemical compounds used in rice bags for store grain pest management	Homestead	07	The length of the trap can be increased to reduce the no. of traps required per bag (4 no./bag)
Nayagarh	2014-15	Rabi	Less output and more drudgery of farmwomen in traditional practice	Assessment of use of manually operated winnowers to reduce drudgery of farmwomen	Assessment	Drudgery reduction	T ₁ -FP(Use of traditional winnowing basket Kula) T ₂ -RP(Use of fan type winnower) T ₃ -RP(Use of hopper type winnower)	T ₂ -Fan type winnower is operated by two persons. It is a fan fitted with a stand having one handle. One person operate the fan with the handle and the other is engaged to clean the paddy standing in front of it. T ₃ -Hopper type winnower can be operated by only	Homestead	10	T ₂ - <ul style="list-style-type: none"> • Decrease the length of the diameter of safety cover as well as the length of the fan blade. • Decrease the height of the handle from ground

Nayagarh	2014-15	Rabi	Poor quality and quantity from local variety	Assessment of quality of tomato puree from tomato varieties	Assessment	Income generation	T ₁ -FP(Use of local variety) T ₂ -RP(Use of variety Swarna sampad) T ₃ -RP(Use of variety Chiranjibi)	one person T ₂ -Tomato variety Swarna sampada has thick skin and it is pulpy which is suitable for puree making T ₃ - Tomato variety Chiranjibi has thick skin and it is pulpy which is suitable for puree making	Homestead	07	-
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2.4 Economic Performance Home Science OFT:

KV K nam e	OFT Title	Performance Indicator / Parameter																						
		Output m ² /h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio	
		T1	T2 T3	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2			
Nayagarh	Assessment of storage practices in store grain pest management in rice	Grain loss 25.84 %	Grain loss T2- 8.1% T3- 5%	-	-	-	-	-	-	-	-	-	-	100	T2- 180/b ag(50 kg) T3- 120/b ag(50 kg) For 1 year	74	T2- 920 T3- 950	Rice recovery kg/bag 37.08	Rice recovery kg/bag T2- 46 T3- 47.5	64	T2- 74 T3- 83 0	T2- 179 T3- 209		T1- 7.4 T2- 9.2 T3- 9.52
Naya	Assess	11.43	T2-	10.	T2		T2-	-	T2	-	T2	-	-	-	-	-	-	-	-	-	-	-	--	-

2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Nayagarh	<ul style="list-style-type: none"> • More proven technologies in rain fed areas relevant to small and marginal farmers for field ,vegetable & fruit crops • Low cost bio intensive based pest management schedules for rain-fed areas • Good weedicide for Cyperus control in rice and pulse crops • Proper nutrient management in Pointed Gourd is a major concern as Pointed Gourd is a long duration crop. So standardisation of Nutrient management practice needs to be done. • The TNAU trap can be fabricated locally to make it available to the farmers and the length of the trap can be increased for more efficiency • The hopper type winnower is operated by only one person and output is very high in comparison to the fan type winnower.

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
KVK, Nayagarh	Rice	Varietal evaluation	Performance of rice var. Upahar	Training, leaf lets, exposure visit, video show, news paper	21	240	209
KVK, Nayagarh	Maize	Integrated nutrient mgt.	Performance of INM in Maize	Training, leaf lets, exposure visit, news paper	22	180	220
KVK, Nayagarh	Sugarcane	ICM	Performance of pit method of planting in sugarcane	Training, leaf lets, exposure visit, news paper	13	119	161
KVK, Nayagarh	Sugarcane	ICM	Performance of Sustainable Sugarcane Initiative method of sugarcane cultivation	Training, Farm Visit, Exposure visit, Film show	34	85	30
KVK, Nayagarh	Sugarcane	Varietals evaluation	.Performance of sugarcane var. Co OR 04-152 (Raghunatha)	Training, Farm Visit, Exposure visit, Film show	19	98	24
KVK, Nayagarh	Sugarcane	ICM	Performance of pit method of planting in sugarcane	Training, Farm Visit, Exposure visit, Film show	13	160	17
KVK, Nayagarh	Rice	IDM	IDM for sheath blight in kharif rice	Training leaf lets, exposure visit,	35	194	68
KVK, Nayagarh	Sugarcane	Bio-control of pests & diseases	Biological control for sugarcane borers	Training, Farm Visit, Exposure visit, Film show	16	49	7

KVK, Nayagarh	Bee Keeping	SSIE	Scientific bee keeping	Training, leaf lets, exposure visit, video show, news paper	12	170	118
KVK, Nayagarh	Tomato	Bio-control of pests & diseases	Microbial control for fruit borer in tomato	Training, leaf lets, exposure visit, video show, news paper	32	262	198
KVK, Nayagarh	Poultry	Income generation	Performance of back yard poultry	Training, leaf lets, exposure visit, video show, news paper	15	35	121 Units
KVK, Nayagarh	Mushroom	Mushroom production	Off season rice straw mushroom	Training, leaf lets, exposure visit, video show, news paper	17	149	99
KVK, Nayagarh	Mango	ICM	Plastic mulching in new mango orchard	Training, leaf lets, exposure visit, video show, Kisan mela	12	73	38
KVK, Nayagarh	Yam	Varietal evaluation	Performance of HYV of yam Odisha Elite	Trainings, exposure visit, field day, video show	19	55	37
KVK, Nayagarh	Pumpkin	Varietal evaluation	Performance of HYV of pumpkin, Baidyabati	Trainings, exposure visit, video show, field day	8	39	18 Unit
KVK, Nayagarh	Chilli	Varietal evaluation	Performance of HYV chilli, utkal abha	Trainings, exposure visit, kisan mela, video show	22	48	33
KVK, Nayagarh	Cat fish	Production & mgt.	<i>Pangasius suchi</i> culture	Trainings, exposure visit, kisan mela, video show	35	97	67 units
KVK, Nayagarh	IMC	Production & mgt.	Yearling culture practice	Leaf let, Poster, Training, Group discussion, TV talk, New paper coverage	26	85	-
KVK, Nayagarh	IMC	Disease mgt.	Application of CIFAX	Leaf let, Poster, Training, Group discussion, TV talk, New paper coverage	5	63	3
KVK, Nayagarh	Poultry	IFS	Dual purpose poultry for farming system	Leaf let, Poster, Training, Group discussion, TV talk, New paper coverage	14	151	-
KVK, Nayagarh	Black pepper	ICM	Introduction of black pepper as an intercrop in mango	Training, Farm Visit, Exposure visit, Film show	29	183	13
KVK, Nayagarh	Teak	ICM	Introduction of stump planting of teak in Agroforestry systems	Training, Group discussion, News paper coverage	7	21	10
KVK, Nayagarh	Teak, Mangium	ICM	Introduction of MPTs in farm lands	Training, Farm Visit, Exposure visit, Booklet	17	35	35
KVK, Nayagarh	Cassava	Value addition	Use of chipmaker for Tapioca Chips preparation	Training, Group discussion, News paper coverage	8	65	6

3.2 Details of FLDs implemented

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/Enterprise	Name of Variety/Technology/Enterprises	Crop-Area (ha) / Enterprise - No.	Results (q/ha)		% change	No. of farmers				
								FP (T ₁)	RP (T ₂)		S	S	Other	Gener	Total
Nayagarh	2014	Khari f	Weed management	Demonstration of herbicide Azimsulfuron application for mgt. of weeds in paddy	Paddy	Swarna/ MTU 1001	2ha	40.12	47.88	19.34	-	-	10	-	10
Nayagarh	2014	Khari f	Varietal evaluation	Demonstration of sweet corn var Madhuri	Maize	Sweet corn var Madhuri	2ha	57280 cobs/ha	55360 cobs / ha	-3.35			10		10
Nayagarh	2014	Khari f	Soil fertility management	Demonstration of INM in Maize	Maize	Decalbo double	2ha	42.35	51.43	21.44			10		10
Nayagarh	2014-15	Rabi	ICM	Demonstration of Sustainable Sugarcane Initiative (SSI) method of sugarcane cultivation	Sugarcane	Raghunath (CO-OR-04-152)	2ha	continuing	-	-	-	-	10	-	10
Nayagarh	2013-14	Rabi	ICM	Demonstration of Sustainable Sugarcane Initiative (SSI) method of sugarcane cultivation	Sugarcane	Raghunath (CO-OR-04-152)	8ha	944.0	1052.0	22.06	3	-	22	-	25
Nayagarh	2013-14	Rabi	IWM	Demonstration of herbicide metribuzin application for weed management in sugarcane	Sugarcane	Raghunath (CO-OR-04-152)	2ha	948.0	1124.0	18.57	-	-	10	-	10

Nayagarrh	2014-15	Khari f	IPM	Performance of IPM for BPH mgt. in paddy	Paddy	Pratikshya	2 ha	41.8	52.3	25.11	6	-	2	2	10
Nayagarrh	2014-15	Khari f	IPM	Performance of IPM for borer management in maize	Maize	Nilesh	1ha	42.6	50.9	19.48	2	-	2	6	10
Nayagarrh	2014-15	Rabi	IDM	Performance of IDM for seed and seedling blight in green gram	Greengram	TARM-1	1ha	4.69	5.62	19.83	-	-	3	7	10
Nayagarrh	2014-15	Rabi	IDM	Integrated Measures for Spodoptera Mgt in cabbage in vegetable cropping system	Cabbage	Cabbage-139	1ha	223.9	270.8	20.95	1	1	2	6	10
Nayagarrh	2014-15	Khari f	ICM	Demonstration of low cost polytunnel for seedling raising	Solanaceous vegetable crops	Solanaceous vegetable crops	10 unit	2110 seedling/3 bed	4875	131%	-	-	9	1	10
Nayagarrh	2014-15	Khari f	Varietal evaluation	Performance of African Marigold var. CERACOLA	Marigold	African marigold CERACOLA	0.8 ha	79.5	102.5	28.9	-	-	10	-	10
Nayagarrh	2014-15	Rabi 5	Varietal evaluation	Performance of HYV of Brinjal, ARKA NEELANCHALA KRANTI	Brinjal	Akra Neelanchala Kranti	0.8ha	216.2	312.8	44.6	1	-	9	-	10

Nayagarh	2014-15	Rabi	Integrate crop mgt.	Control of nut drop in cashewnut in fruit based cropping system	Cashew	VR-4	2.0 ha	8.65kg/tree	11.63kg/tree	34%	1	3	6	-	10
Nayagarh	2014-15	Khari f	Production and management	Demonstration of production of stunted fingerlings/yearlings	Indian Major carp	Indian Major carp	1 ha	21.5	25.38	18.04	1	-	3	1	5
Nayagarh	2014-15	Khari f	Production and management	Demonstration of Jayanti rohu in polyculture	Indian Major carp	Catla, Jayanti rohu, Mrigal	2 ha	27.8	31.5	13.3	-	-	3	2	5
Nayagarh	2014-15	Khari f,	Production and management	Demonstration of composite fish culture in community pond	Indian Major carp	Indian Major carp	2 ha	16.42	28.41	51.1	-	1	2	-	3
Nayagarh	2014-15	Rabi	Integrated fish farming	Demonstration of duck integration in pisciculture	Duck	White pekin	5nos	24.3	31.6	30.0	-	-	3	2	5
Nayagarh	2014	Khari f	IGA	Rearing of backyard poultry(Rainbow roaster)	Backyard poultry	Backyard poultry(Rainbow roaster)	10 Units 200 birds	Meat 1.6 kg/bird	Meat 3.2 kg/bird	50 %	-	9	1	-	10
Nayagarh	2014-15	Khari k	AGF	Intercropping of turmeric in teak plantation	Turmeric	Lakadong	1 ha	35kg	60kg	71%	-	-	-	5	5

3.3 Economic Impact of FLD

KVK Name	Technology demonstrated	Name of Crop/ Enterprise	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	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)
Nayagarh	Demonstration of herbicide Azimsulfuron application for mgt. of weeds in paddy	Paddy	WCE	79.2%	89.42%	37400	34500	54563	65117	17163	306171	1.46	1.88
Nayagarh	Demonstration of sweet corn var Madhuri	Maize	Avg no of seed rows/cob	14	14								
			Avg no of seed /row	34	30	38250	39300	108832	124560	70582	85260	2.84	3.17
			Average cob length (cm)	22.5	20.5								
Nayagarh	Demonstration of INM in Maize	Maize	Avg no of seed rows/cob	14	16								
			Avg no of seed /row	32	38	38270	40380	55479	67373	17209	26993	1.45	1.67
			Average cob length (cm)	21.5	23.5								
Nayagarh	Demonstration of Sustainable Sugarcane Initiative (SSI) method of sugarcane cultivation	Sugarcane	Results awiated										

Nayagarh	Demonstration of Sustainable Sugarcane Initiative (SSI) method of sugarcane cultivation	Sugarcane	Cane length (m) Single cane weight (Kg)	3.2 2.3	3.5 2.7	125650	103650	207680	253440	82030	149790	1.65	2.45
Nayagarh	Demonstration of herbicide metribuzin application for weed management in sugarcane	Sugarcane	Cane length (m) Single cane weight (Kg)	3.1 2.2	3.4 2.6	125350	122050	208560	247280	83210	125230	1.66	2.03
Nayagarh	Performance of IPM for BPH mgt. in paddy	Paddy	BPH population/hill	15.3	4.1	33838	37239	56848	71128	23010	33889	1.68	1.91
Nayagarh	Performance of IPM for borer management in maize	Maize	Dead heart (%)	17.1	5.9	32258	34728	55806	66679	23548	31951	1.73	1.92
Nayagarh	Performance of IDM for seed and seedling blight in green gram	Greengram	Seedling blight (%)	21.9	8.7	13236	14282	21574	25852	8338	11570	1.63	1.81
Nayagarh	Integrated Measures for Spodoptera Mgt in cabbage in vegetable cropping system	Cabbage	No. of larvae/10 plants	2.87	1.23	63248	68040	111950	135400	48702	67360	1.77	1.99
Nayagarh	Demonstration of low cost polytunnel for seedling raising	Solanaceous vegetable crops	Germination (%)	33.8	84.5	700/3 beds	900/3 beds	1266	2925	566	2025	1.8	3.25
Nayagarh	Performance of African Marigold var. CERACOLA	Marigold	No of flowes/plant	56	78	106000	111000	190800	266500	84000	155500	1.8	2.4

Nayagarh	Performance of HYV of Brinjal, ARKA NEELANCHALA KRANTI	Brinjal	Avg. fruit weight (gm) No of fruits/plant	135 11	92 24	80100	84500	108100	156400	28000	71900	1.35	1.85
Nayagarh	Control of nut drop in cashewnut in fruit based cropping system	Cashew	Avg. nut wt (gm)	4.0	5.1	210/tree	250/tree	606/tree@ Rs.70/kg	872@ Rs.75/kg	396	622	2.9	3.5
Nayagarh	Demonstration of production of stunted fingerlings/yearlings	Indian Major carp	Survivability (%)	21.6	51.1	92750	95000	185500	253750	92750	158750	2.0	2.67
			Plankton density (ml/50lit)	1.7	2.3								
Nayagarh	Demonstration of Jayanti rohu in polyculture	Indian Major carp	Avg.wt.of rohu (kg)	0.62	0.746	125000	128000	236300	269680	111300	141680	1.89	2.11
Nayagarh	Demonstration of composite fish culture in community pond	Indian Major carp	Avg body wt (kg)	0.270	0.420	82000	98750	139550	212600	57550	113850	1.70	2.15
Nayagarh	Demonstration of duck integration in pisciculture	White pekin	Plankton conc (ml/50lit)	1.8	2.0	115500	130400	211400	278060	96400	147660	1.83	2.64
Nayagarh	Rearing of backyard poultry(Rainbow roaster	Backyard poultry	Weight Kg/bird	1.6 kg	3.2 kg	105/bird	160/bird	250/bird	550/bird	146/bird	390/bird	2.38	3.4
Nayagarh	Intercropping of turmeric in teak plantation	Turmeric	Plant height (m)	1m	1.5m	500	600	875	1800	830	1700	1.75	3.0

Details of FLDs implemented (Oilseed & Pulses)

KVK Name	year	Season	Thematic area	Technology demonstrated	Name of Crop/Enterprise	Name of Variety/Technology/Enterprises	Crop-Area (ha) / Enterprise - No.	Results (q/ha)		% change	No. of farmers				
								FP (T ₁)	RP (T ₂)		S C	S T	Others	General	Total
Nayagarh	2014-15	Rabi	ICM	Demonstration of greengram var. TARM-1	Green gram	Sowing Green gram var. TARM-1 in available moisture with seed treatment & rhizobium culture treatment, need based PP measures	5ha	4.98	3.81	30.7	0	0	17	0	17
Nayagarh	2014-15	Rabi	ICM	Demonstration of blackgram var. TU-94-2	Blackgram	Sowing Blackgram var. TU 94-2 in available moisture with seed treatment & rhizobium culture treatment, need based PP measures	5ha	4.45	3.26	36.5	5	0	11	16	16
Nayagarh	2014-15	Rabi	Varietal evaluation	Demonstration of sesamum var. Amrit	sesamum	Amrit	5ha	Continuing			4	0	11	0	15

Economic Impact of FLD (Oilseed & Pulses)

KVK Name	Technology demonstrated	Name of Crop/Enterprise	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	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)	FP (T ₁)	RP (T ₂)
Nayagarh	Demonstration of greengram var. TARM-1	Green gram	No of seeds/pod No of pods/plant	6.7 61	9.8 77	10249	12382	17526	22908	7277	10526	1.71	1.85
Nayagarh	Demonstration of blackgram var. TU-94-2	Blackgram	No of seeds/pod No of pods/plant	5 53	9.3 73	8492	10636	14181	19358	5689	8722	1.67	1.82
Nayagarh	Demonstration of sesamum var. Amrit	sesamum	Results awaited										

3.4 Information about Home Science FLDs

KVK name	Year	Season	Thematic Area	Problem Identified	Technology to be Demonstrated as Solution to the Identified Problem	Crop/ Enterprise (In which crop Enterprise or Farming Activity)	Name of Variety/Technology/Enterprises	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Nayagarh	2014	Kharif	Drudgery reduction	High drudgery and less efficiency due to hand shelling	Use of tubular maize Sheller to increase efficiency	Maize shelling	Use of tubular maize Sheller	Homestead	10 units	10
Nayagarh	2014	Kharif	Value addition	Poor sanitation and low efficiency due to open sun drying	Use of low cost solar dehydrator for drying mahua flowers	Drying of mahua flowers	Use of low cost solar dehydrator (made of polythene of 200 micron)	Homestead	1 unit	5
Nayagarh	2014-2015	Kharif	Drudgery reduction	High drudgery and less efficiency due to removing seeds from flowers by hand beating	Use of sunflower thresher for extracting seeds from flowers	Sunflower threshing	Use of sunflower thresher	Homestead	5 units	10

3.5 Economic Performance Home Science FLDs:

KVK name	Technology to be Demonstrated	Performance Indicator / Parameter																					
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/m in		% reduction in drudgery		% increase in efficiency		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Savings in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Nayagarh	Use of tubular maize sheller to separate grains from pod	6 kg/hr	18.2 kg/hr	9.08	8.61	112	109	-	5.17	-	67.03	-	-	-	-	-	-	-	-	-	-	-	-
Nayagarh	Use of low cost solar dehydrator for drying mahua flowers	15kg/week	35kg/week	-	-	-	-	-	-	-	57.1	-	-	-	1000(one time investment)	-	-	-	-	300	700	400	T1-3.0 T2-7.0
Nayagarh	Use of sunflower thresher for extracting seeds from flowers	6.2kg/hr	12.9kg/hr	10.36	17.01	120	107	-	39.09	-	51.93	-	-	-	-	-	-	-	-	-	-	-	-

3.6 Training and Extension activities proposed under FLD

KVK Name	Crop	Activity	No. of activities organized	Number of participants	Remarks
Nayagarh	rice	Field days	2	100	-
		Farmers Training	10	250	
		Media coverage	1	-	-
		Training for extension functionaries	-	-	-
Nayagarh	Maize	Field days	2	100	-
		Farmers Training	2	50	-
		Media coverage	1	--	-
Nayagarh	Sugarcane	Field days	1	50	-
		Farmers Training	3	75	-
		Media coverage	2	-	-
		Training for extension functionaries	-	-	-
Nayagarh	Tomato	Field days	1	50	-
		Farmers Training	1	25	-
		Media coverage	1	-	-
		Training for extension functionaries	-	-	-
Nayagarh	Mango	Field days	01	50	-
		Farmers Training	01	25	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Nayagarh	Yam	Field days	01	50	-
		Farmers Training	01	25	-

		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Nayagarh	Pumpkin	Field days	01	50	-
		Farmers Training	01	25	-
		Media coverage	-	-	-
		Training for extension functionaries	-	-	-
Nayagarh	IMC	Field days	1	50	-
		Farmers Training	4	100	-
		Media coverage	4	-	-
		Training for extension functionaries	1	20	-
Nayagarh	IMC	Field days	1	50	-
		Farmers Training	1	25	-
		Media coverage	1	-	-
		Training for extension functionaries	-	-	-
Nayagarh	Cassava	Field days	1	50	-
Nayagarh		Farmers Training	2	50	-
Nayagarh		Media coverage	-	-	-
Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	Teak, Mangium	Field days	-	-	-
Nayagarh		Farmers Training	2	50	-
Nayagarh		Media coverage	-	-	-

Nayagarh		Training for extension functionaries	1	25	-
Nayagarh	Black pepper	Field days	-	-	-
Nayagarh		Farmers Training	1	25	-
Nayagarh		Media coverage			
Nayagarh		Training for extension functionaries			
Nayagarh	Green gram	Field days	2	100	-
Nayagarh		Farmers Training	2	50	-
Nayagarh		Media coverage	1	-	-
Nayagarh		Training for extension functionaries	1	25	-
Nayagarh	Rice straw mushroom	Field days	1	50	-
Nayagarh		Farmers Training	2	50	-
Nayagarh		Media coverage	1	-	-
Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	Twin wheel hoe	Field days	1	50	-
Nayagarh		Farmers Training	1	25	-
Nayagarh		Media coverage	-	-	-
Nayagarh		Training for extension functionaries	-	-	-

3.7 Details of FLD on crop hybrids.

S. No.	Name of the KVK	Name of the Crop	Name of the Hybrids	Source of Hybrid (Institute/Firm)	No. of farmers	Area in ha.
1	Nayagarh	Rice	CR Dhan 701	Institute	13	0.5 ha
2	Nayagarh	Maize	Decalbo Double	Institute	10	2ha

4. Feedback System

4.1. Feedback from KVK to Research System.

Name of KVK	Feedback
Nayagarh	<p>More proven technologies in rain fed areas relevant to small and marginal farmers for field ,vegetable & fruit crops</p> <p>Low cost bio intensive based pest management schedules for rain-fed areas</p> <p>Low cost feed for pangasius cultivation</p> <p>Low cost small implements for drudgery reduction</p> <p>Proper nutrient management in Pointed Gourd is a major concern as Pointed Gourd is a long duration crop. So standardisation of nutrient management practice needs to be done.</p> <p>Hopper type winnower is easy and safe to use than fan type winnower.</p> <p>TNAU trap is handy and effective for rice weevil control.</p> <p>Mango variety Chiranjibi is more preferred than Swarna sampada for value addition</p>

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	F/FW	Group discussion	10.04.2014 Singhapada	25
Nayagarh	F/FW	Group discussion	14.05.2014 Gadiasahi, Nua Gadiasahi	25
Nayagarh	F/FW	Group discussion	22.05.2014 .Fategarh	25
Nayagarh	F/FW	Group discussion	18.06.2014 Aonlamada	25
Nayagarh	F/FW	Group discussion, field visit, survey	08.07.2014 Darpanarayanpur	20
Nayagarh	F/FW	Group discussion, field visit, survey	12.08.14 Anlamada, Gopalipada	25
Nayagarh	RY	Group discussion	17.09.14 KVK campus	20
Nayagarh	RY	Group discussion, field visit	26.09.14 Janisahi, Dalaksahi, Digiri	25
Nayagarh	F/FW	Group discussion, field visit	14.10.14 Nuasgaon, lingiribari,Lunisara	22
Nayagarh	F/FW	Group discussion	11.11.14 Giridipalli, Bhanrapalli	25
Nayagarh	F/FW	Group discussion, field visit, local resources available	20.11.14 Fategarh,Singapada	25

Nayagarh	RY	Group discussion	05.12.2014 KVK Campus	25
Nayagarh	F/FW	Group discussion, field visit	15.12.14 Mardarajpur,anlamada,ladukesharpur	18
Nayagarh	F/FW	Group discussion, field visit	06.01.2015 Anlamada, Jogiapalli, Gunthuni	21
Nayagarh	F/FW	Group discussion, field visit	05.02.2015 Balugaon,	25
Nayagarh	RY	Group discussion with SHG members	14.03.2015 KVK campus	15
Nayagarh	IS	Group discussion NGO workers, Krushak club members & krusaksathi	06.03.2015 KVK campus	15

Abbreviation Used

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

RYH	Rural Youth
EXP	Extension Personnel

5. TRAINING PROGRAMMES

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

Table 5.1. Details of Training programmes conducted by the KVKs

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	9	10	11	12	13	14	16	17
Nayagarh	FW	ONC	CRP	Hybrid rice cultivation	1	2	0	0	0	6	0	0	0	19
Nayagarh	FW	ONC	CRP	SRI method rice cultivation	1	2	0	0	0	0	0	0	5	20
Nayagarh	FW	ONC	CRP	IWM in Rice	1	2	0	0	3	5	0	0	16	1
Nayagarh	FW	ONC	CRP	Planting techniques in sugarcane	1	2	1	0	0	0	0	0	19	5
Nayagarh	RY	ONC	CRP	Quality seed production technology in rice	1	2	6	0	1	0	0	0	13	0
Nayagarh	RY	ONC	CRP	Vermi composting	1	2	0	0	0	0	0	0	20	0
Nayagarh	IS	ONC	CRP	Nutrient management in organic farming	1	2	2	0	5	1	0	0	13	4
Nayagarh	FW	OFC	CRP	Hybrid rice cultivation	1	1	0	0	1	0	0	0	24	0
Nayagarh	FW	OFC	CRP	SRI method rice cultivation	1	1	0	0	1	0	0	0	22	2
Nayagarh	FW	OFC	CRP	IWM in Rice	1	1	0	0	2	0	0	0	23	0
Nayagarh	FW	OFC	SFM	INM in rice	1	1	0	0	8	0	0	0	17	0
Nayagarh	FW	OFC	SFM	INM in Maize	1	1	0	0	0	2	0	0	20	3
Nayagarh	FW	OFC	CRP	Techniques of rogueing in rice for quality seed production	1	1	0	0	4	0	0	0	13	8
Nayagarh	FW	OFC	SFM	Use bio-inoculants pulses	1	1	0	0	2	5	0	0	15	3
Nayagarh	FW	OFC	CRP	Ratoon mgt. in sugarcane	1	1	0	0	4	0	0	0	21	0
Nayagarh	FW	OFC	PLP	IPM for fruit fly in cucurbits	1	1	2	0	0	0	0	0	23	0
Nayagarh	FW	OFC	PLP	Biological control of sugarcane borers	1	1	6	0	6	0	0	0	13	0
Nayagarh	FW	ONC	PLP	Integrated management for eriophyid mite in coconut	1	2	3	0	4	0	0	0	18	0
Nayagarh	FW	OFC	PLP	IPM for stem borer, BPH, Gandhi bug & cut worm in rice	1	1	2	0	6	0	0	0	17	0
Nayagarh	FW	ONC	PLP	IDM for sheath blight, blast	1	2	4	0	7	0	0	0	14	0

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	9	10	11	12	13	14	16	17
				and BLB diseases in rice										
Nayagarh	FW	OFC	PLP	Management of die-back and fruit rot diseases in chilli	1	1	7	0	3	3	0	0	12	0
Nayagarh	FW	OFC	PLP	Wilt & phomopsis blight mgt. in solanaceous vegetables	1	1	5	0	4	0	0	0	16	0
Nayagarh	FW	ONC	PLP	Integrated disease mgt. in vegetable nursery	1	2	3	0	0	0	0	0	22	0
Nayagarh	FW	OFC	PLP	IPM for major insect pests in cole crops	1	1	2	0	7	0	0	0	16	0
Nayagarh	FW	OFC	PLP	IPM for major sucking pests in oilseed crops	1	1	3	0	4	0	0	0	18	0
Nayagarh	FW	OFC	PLP	Integrated disease mgt. for root rot & YMV in pulses	1	1	2	0	3	0	0	0	20	0
Nayagarh	FW	OFC	PLP	IPM for fruit & shoot borer in brinjal	1	1	4	1	7	0	0	0	13	0
Nayagarh	RY	ONC	PLP	Safe & judicious use of pesticides	1	2	3	0	4	0	0	0	13	0
Nayagarh	IS	ONC	PLP	Modern pest control method in managing insect pests of crops	1	2	10	0	0	0	0	0	15	0
Nayagarh	FW	OFC	HOF	Planting techniques in mango	1	1	4	0	0	0	0	0	21	0
Nayagarh	FW	OFC	HOS	Raised bed method of turmeric planting	1	1	3	0	0	0	0	0	16	6
Nayagarh	IS	ONC	HOF	Rejuvenation of old mango tree	1	2	7	0	1	0	1	0	16	0
Nayagarh	RY	ONC	HOV	Raising of Vegetable Nursery in low cost poly-tunnel	1	2	5	0	1	0	0	0	19	0
Nayagarh	FW	OFC	HOV	Nutrient management in spine gourd	1	1	5	0	0	0	0	0	20	0
Nayagarh	FW	OFF	HOO	Improved technology of kharif marigold planting	1	1	2	0	0	0	0	0	23	0
Nayagarh	RY	ONC	HOF	Quality planting material production in fruit crops	1	3	6	0	2	0	0	0	12	0
Nayagarh	FW	OFC	HOF	Production technology for raising Tissue Culture Banana.	1	1	1	3	0	0	0	0	12	9

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	9	10	11	12	13	14	16	17
Nayagarh	FW	ONC	HOV	Nutrient management in tomato	1	1	1	0	2	0	0	0	22	0
Nayagarh	FW	OFC	HOV	Nutrient Management in brinjal	1	2	0	0	0	0	0	0	25	0
Nayagarh	FW	OFC	HOF	Control of fruit drop in mango	1	1	0	0	0	0	0	0	25	0
Nayagarh	FW	OFC	HOV	Techniques of seedling raising in onion	1	1	5	0	0	0	0	0	20	0
Nayagarh	FW	OFC	HOV	Use of growth regulators in vegetable crops	1	1	0	0	0	2	21	0	2	0
Nayagarh	FW	OFC	WOE	Drudgery reducing tools and techniques	1	1	0	0	22	0	0	3	0	0
Nayagarh	FW	OFC	WOE	Commercial cultivation of paddy straw mushroom	2	2	-	22	-	24	2	2	-	-
Nayagarh	FW	OFC	WOE	Commercial cultivation of oyster mushroom	1	1	0	5	10	0	1	5	4	0
Nayagarh	FW	OFC	WOE	Backyard poultry rearing	1	1					10	15		
Nayagarh	FW	ONC	WOE	Dehydrated products making from cereals and pulses	1	1				5		20		
Nayagarh	IS	ONC	WOE	Mushroom spawn production	1	2	2	5		1		17		
Nayagarh	RY	ONC	WOE	Value added products making from milk	1	2	5	11		4	-	-	-	-
Nayagarh	FW	OFC	FIS	Composite fish culture	1	1	0	0	1	0	10	1	12	1
Nayagarh	IS	ONC	FIS	Species diversification in freshwater aquaculture	1	2	0	0	0	0	0	0	15	5
Nayagarh	FW	OFC	FIS	Pisciculture in community pond	1	1	0	0	0	0	0	0	0	25
Nayagarh	RY	ONC	FIS	Ornamental fish culture for livelihood	1	2	4	0	1	0	0	0	15	0
Nayagarh	FW	OFC	FIS	Culture of medium carp in polyculture	1	1	4	0	0	0	0	0	21	0
Nayagarh	FW	OFC	FIS	Production practices of stunted fingerlings	1	1	0	0	1	0	0	0	24	0
Nayagarh	FW	OFC	FIS	Feed preparation and Feeding	1	1	1	0	3	0	1	0	20	0

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	9	10	11	12	13	14	16	17
				management in fish pond										
Nayagarh	FW	OFC	LPM	Backyard poultry and duckery rearing	1	1	0	0	0	0	10	9	3	3
Nayagarh	FW	OFC	FIS	Natural food production in fish pond	1	1	0	0	0	0	0	0	25	0
Nayagarh	FW	OFC	FIS	Integration of duck in pisciculture	1	1	0	0	1	0	1	0	23	0
Nayagarh	FW	OFC	FIS	Fish disease management	1	1	0	0	0	2	0	0	0	23
Nayagarh	FW	OFC	LPM	Feeding management for cross bred cow	1	1	2	0	4	0	0	0	19	0
Nayagarh	FW	ONC	FIS	Azolla production	1	2	1	0	2	0	0	4	15	3
Nayagarh	RY	ONC	FIS	Value addition of freshwater fish	1	2	0	0	0	8	0	5	0	12
Nayagarh	FW	ONC	AGF	Medicinal plants identified for the district, their uses and cultivation	1	1	10	0	5	0	0	0	10	0
Nayagarh	FW	OFF	AGF	Agroforestry system for rainfed as well as irrigated agro ecosystem	1	1	5	0	0	0	0	0	20	0
Nayagarh	RY	ONC	AGF	Growing of A. mangium for profit maximization	1	2	0	0	5	5	5	5	3	2
Nayagarh	IS	OFC	AGF	Environmental pollution	1	2	0	0	5	5	5	10	0	0
Nayagarh	FW	OFC	AGF	Growing eucalyptus for industrial use	1	1	0	5		5	0	0	0	15
Nayagarh	FW	OFC	AGF	Bamboo as an component in IFS and its propagation methods(Culm Cutting)	1	1	5	0	5	0	5	0	10	0
Nayagarh	FW	ONC	CBD	Formation of SHG & their role	1	1	0	2	0	0	0	7	0	16
Nayagarh	FW	OFC	CBD	Weed mgt. in rice	1	1	0	0	8	4	0	0	11	2
Nayagarh	FW	ONC	CBD	Technology for increasing Oilseed Production	1	2	0	0	3	0	0	0	22	0
Nayagarh	FW	OFC	CBD	Technology for increasing Oilseed Production	1	1	6	0	2	0	0	0	17	0
Nayagarh	FW	ONC	CBD	Maintenance & use of sprayer	1	2	0	0	0	0	0	0	25	0
Nayagarh	FW	ONC	CBD	ITK in agriculture	1	2	6	0	13	0	0	0	6	0

Name of KVK	Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
1	2	3	4	5	6	7	9	10	11	12	13	14	16	17
Nayagarh	FW	OFC	CBD	Scientific method of pulse production	2	2	4	0	15	0	3	0	28	0
Nayagarh	IS	ONC	CBD	Management of Training Programme	1	1	3	1	2	1	1	1	15	1
Nayagarh	FW	OFC	CBD	Market led extension	1	1	0	0	7	0	0	0	18	0
Nayagarh	RY	ONC	CBD	Formation of Agro Consultancy	1	1	2	0	2	1	1	1	10	3
Nayagarh	FW	OFC	CBD	Improved Agricultural Implements for Sowing & Planting in Rabi Crops	1	2	3	0	3	2	3	3	10	1
Nayagarh	FW	OFC	CBD	Co-operative and contract farming	1	1	2	1	2	2	3	2	7	6
Nayagarh	FW	OFC	CBD	ITK in agriculture	1	1	0	0	2	1	1	1	16	4
Nayagarh	IS	ONC	CBD	Participatory Project Management in rural sector for sustainable livelihood & food security.	1	1	4	0	1	0	5	0	15	0

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

Name of KVK	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries					
					SC		ST		Others	
					M	F	M	F	M	F
Nayagarh	Integrated fish farming	IFS	Income Generation	4	1	0	0	2	17	0
Nayagarh	Bee Keeping	Apiculture	Income Generation	4	2	0	2	0	16	0
Nayagarh	Quality planting material production of fruit crops	Mango, lime, guava	Income generation	3	4	2	2	2	5	5
Nayagarh	Fruits and vegetable preservation	Value addition of fruits and veg.	Value addition	5	1	3	-	-	7	9

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	MPTs their uses, planting and planting material production	Nursery	7	18	14
Nayagarh	Entrepreneurship development in ornamental fish	Hatchery	17	22	12
Nayagarh	Bee Keeping	Apiary	45	85	28
Nayagarh	Quality planting material production of fruit crops	Nursery	7	14	17
Nayagarh	Commercial cultivation of paddy straw mushroom	Commercial	5	12	-
Nayagarh	Backyard poultry rearing	Commercial	3	15	-

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	Bee Keeping	SSIE		FW	03	06	5	2	8	2	2	6	Block watershed, Nuagaon	
Nayagarh	Bee Keeping	SSIE		FW	03	06	4	3	5	1	4	8	Block watershed, Odagaon	
Nayagarh	IPDM in Pulses	IPDM		FW	03	06	11	5	6	2	1	0	Block watershed, Nuagaon	
Nayagarh	IPDM in Pulses	IPDM		FW	03	06	9	6	3	2	2	3	Block watershed, Odagaon	
Nayagarh	Vermi-composting	Production of organic inputs		FW	03	06	7	5	2	6	3	2	Block watershed, Nuagaon	
Nayagarh	Value addition from fruits and vegetables	Post-harvest technology		FW	03	06	0	8	4	7	1	5	Block watershed, Odagaon	
Nayagarh	Production technology of potato and onion	ICM		FW	03	06	5	2	8	2	2	6	Block watershed, Nuagaon	
Nayagarh	Composite fish culture	Production and management		FW	03	06	4	3	5	1	4	8	Block watershed, Odagaon	

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

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

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

Name of KVK	Title of the training	No. of trainees	Change in knowledge (Score)		Change in Production (q/ha)		Change in Income (Rs)		Impact on 1. Area expanded (ha) 2. No. of farmers adopted (no.) 3. % change in knowledge, production & Income
			Before	After	Before	After	Before	After	
KVK, Nayagarh	Planting techniques in Sugarcane	25	40	74	897	1120	107640	134400	1. 10 ha 2. Out of 25 trainees, 20 trainees adopted the recommended planting technique. 3. (i) Knowledge – 85% (ii) Production – 26% (iii) Income – 26%
KVK, Nayagarh	Ratoon Management in sugarcane	25	45	78	783	972	93960	116640	1. 15 ha. 2. Out of 25 trainees, 23 trainees adopted the recommended ratoon management of practices in sugarcane. 3. (i) Knowledge – 73% (ii) Production – 24% (iii) Income – 24%
KVK, Nayagarh	Use of bio inoculants in pulses	25	41	76	2.5	4.0	15000	24000	1. 25 ha 2. Out of 25 trainees, 24 trainees adopted the recommended practice of bio inoculation in pulses. 3. (i) Knowledge – 85% (ii) Production – 60% (iii) Income – 60%
KVK, Nayagarh	Techniques of rouging for increasing seed quality in rice	75	43	80	37.5	42.0	33750	37800	1. 40 ha 2. Out of 50 trainees, 40 trainees adopted the recommended practice of rouging in rice. 3. (i) Knowledge – 86% (ii) Production – 12% (iii) Income – 12%

KVK, Nayagarh	IPM for major sucking pests in oilseed crops	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%
KVK, Nayagarh	IMP 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%
KVK, 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%
KVK, Nayagarh	Use of CIFAX	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-49 Income-18
KVK, Nayagarh	Multiple fish culture practice	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
KVK, Nayagarh	Fish pickle preparation	20	12	45	0	.05	0	5000	1.Area expanded (ha)-2 2.No. of farmers adopted (no.)-7 3.% change in knowledge-275 Production-25 Income- 19
KVK, Nayagarh	Fish diseases mgt.	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

KVK, 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
KVK, Nayagarh	Training on medicinal plants	25	50	65	-	-	-	-	1.All farmers who attended planted 2 medicinal plant species viz.,sandal and pippili in their backyard 2. Knowledge:30%
KVK, Nayagarh	Training on home stead planting	25	40	60	0.4	-	-	-	1. 0.1ha 2. Out of 25 trainees 5 farmers did tree planting on their homestead 3.50% increase in knowledge
KVK, Nayagarh	Training on collection and processing of kendu leaves	25	75	80	-	-	-	-	1. All 25 farmers adopted the technique on an exciting area of 0.25 ha. 2. Knowledge increased by 6.7%
KVK, Nayagarh	Training on sal seed collection, processing and grading	25	30	50	-	-	-	-	1. Three more farmers started collection sal seeds 2. Knowledge increase 67%
KVK, Nayagarh	Training on watershed management practices	15	70	80	-	-	-	-	Knowledge increased 14%
KVK, Nayagarh	Quality planting material production in fruit crops	20	32	45	-	-	50000	82000	1.No. of farmers adopted (no.)-18 2.% change in knowledge-41 Income-64
KVK, Nayagarh	Improved technology of kharif marigold planting	25	38	57	37.8	49.8	44100	81750	1.Area expanded (ha)-5 2.No. of farmers adopted (no.)-18 3.% change in knowledge-50 Production31 Income-85

6. EXTENSION ACTIVITIES

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Nayagarh	Field Day	21	14	398	92	166	44	32	11	0	0	0
Nayagarh	Kisan Mela	2	2	223	105	129	144	11	5	0	0	0
Nayagarh	Kisan Ghosthi	2	3	43	03	12	2	0	0	0	0	0
Nayagarh	Exhibition	2	2	611	229	201	159	0	0	0	0	0
Nayagarh	Film Show	60	60	802	298	314	86	0	0	0	0	0
Nayagarh	Method Demonstrations	2	2	25	7	5	3	3	1	0	0	0
Nayagarh	Farmers Seminar	2	2	31	8	9	2	0	0	0	0	0
Nayagarh	Workshop	6	6	0	0	0	0	0	0	0	0	0
Nayagarh	Group meetings	4	4	61	14	18	7	0	0	0	0	0
Nayagarh	Lectures delivered as resource persons	15	19	86	18	17	5	0	0	0	0	0
Nayagarh	Newspaper coverage	10	14	0	0	0	0	0	0	0	0	0
Nayagarh	Radio talks	8	8	0	0	0	0	0	0	0	0	0
Nayagarh	TV talks	8	8	0	0	0	0	0	0	0	0	0
Nayagarh	Popular Articles	8	8	0	0	0	0	0	0	0	0	0
Nayagarh	Extension Literature	5	5	0	0	0	0	0	0	0	0	0
Nayagarh	Farm Advisory Services	80	80	0	0	0	0	0	0	0	0	0
Nayagarh	Scientific visit to farmers field	170	251	531	197	197	143	0	0	0	0	0
Nayagarh	Farmers Visit to KVK	500	368	166	87	87	38	0	0	0	0	0
Nayagarh	Diagnostic Visits	96	96	125	18	18	8	0	0	0	0	0
Nayagarh	Exposure Visits	2	2	16	0	0	0	0	0	0	0	0
Nayagarh	Ex-trainees Sammelan	4	4	147	16	16	5	0	0	0	0	0
Nayagarh	Soil Health Camp	2	2	74	11	11	3	0	0	0	0	0
Nayagarh	Animal Health Camp	2	2	85	7	7	2	0	0	0	0	0
Nayagarh	Agri Mobile Clinic	0	0	0	0	0	0	0	0	0	0	0
Nayagarh	Soil Test Campaigns	2	2	80	12	12	0	0	0	0	0	0

Name of the KVK	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants						Remarks		
				Farmers (Others)		SC/ST (Farmers)		Extension Officials		Purpose	Topic s	Crop Stages
				M	F	M	F	M	F			
Nayagarh	Farm Science Club conveners meet	1	1	14	0	0	0	0	0	0	0	0
Nayagarh	Self Help Group conveners meetings	4	4	0	80	80	20	0	0	0	0	0

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

7.1 KVK Newsletters

KVK Name	Date of start	Periodicity	Number of copies to be printed	Number of copies to be distributed
Nayagarh	June, 2014	Quarterly	500	500
Nayagarh	September, 2014	Quarterly	500	500
Nayagarh	December, 2014	Quarterly	500	500
Nayagarh	March, 2015	Quarterly	500	500

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Nayagarh	Booklet	Technology disseminated by KVK, Nayagarh	Trinath Khandaitaray, T.Badjena, S.Sahu, A.M.Prusti, A.Panda, J.Udgata	500
Nayagarh	Booklet	Success story	Trinath Khandaitaray, T.Badjena, S.Sahu, A.M.Prusti, A.Panda, J.Udgata	500
Nayagarh	Booklet	Scientific method of sunflower cultivation	T Trinath Khandaitaray, T.Badjena, A.M.Prusti,	500
Nayagarh	Booklet	Azolla: Organic manure for poultry & dairy feed	S.Sahu, T.Badjena	500

7.3 Details of Electronic Media Produced

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

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)

KVK Name	Major group/class	Crop	Variety	Quantity (qt.)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Nayagarh		Dhanicha (TL)	Local	0.6q	2000	14	2ha

8.2 Planting Material production

KVK Name	Major group/class	Crop	Variety	Nos.	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Nayagarh	Horticultural Plant	Mango grafts	Amarpalli	1287	30888	127	12.8ha
Nayagarh	Honey		<i>Apis cerana indica</i>	21kg	6300	84	
Nayagarh	Seedling	Fruits and vegetables	Arka Nilachala, kranti, Utkal ava, PKM-1, Red Lady, ranchi dwarf	35553	32418	1188	
Nayagarh	Ornamental Flower	Merigold	Ceracola	8620	8610	111	
Nayagarh	Vermicompost		<i>E.foetida</i>	19.75q	15798	71	9.8ha
Nayagarh	Forest Species	Teak		650	5200	32	
Nayagarh		A. mangium		1123	5615	53	
Nayagarh	Mushroom		<i>V. volvaceae</i>	56.38kg	5075	112	
Nayagarh	Mushroom Spawn		<i>V. volvaceae</i>	300 bottles	3660	53	

8.3 Production Units (bio-agents / bio pesticides/ bio fertilizers etc.) * Name of product should follow same pattern and spelled correct

KVK Name	Major Group Bio agent/Bio fertilizers/Bio Pesticides	Name of the Product	Qty (In Kg)	Qty (In No)	Value (Rs.)	Provided to No. of Farmers	Expected area coverage (ha.)
Nayagarh	Bio Agents						
Nayagarh	Bio Agents						
Nayagarh	Bio Fertilizer	Vermi-compost	1975kg		15798	71	9.8ha
Nayagarh	Bio Fertilizer						

8.4 Livestock and fisheries production

KVK Name	Name of the animal / bird / aquatics	Breed	Type of Produce	Qty. (kg/qt./litre)	Value (Rs.)	No. of Beneficiaries
Nayagarh	Back ward Poultry	Vanaraja	21 day old chicks	1610nos	77500	83
Nayagarh	Fisheries	Colour Fish	Live Bearer	500nos	2500	27

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil samples analyzed so far :NA

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Soil report distributed to the farmers (Nos)

Nayagarh	Not yet established							
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9.2 Details of water samples analyzed so far :

KVK Name	Status of establishment of Lab	Year of establishment	Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized	Water report distributed to the farmers (Nos)

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

11. Utilization of Farmers Hostel facilities:

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)	Accommodation available (No. of beds)
Nayagarh	October	2014	Quality planting material production of fruit crops	03	20	03	-	25
Nayagarh	December	2014	Fruits and vegetable preservation	05	20	05	-	25
Nayagarh	March	2015	Integrated fish farming	04	20	04	-	25
Nayagarh	march	2015	Bee Keeping	04	20	04	-	25

12. Utilization of Staff Quarters facilities: NA

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

13. Details of SAC Meeting

KVK Name	Date of SAC meeting	No. of SAC members attended	Major recommendations
Nayagarh	13.08.2014	22	1.Popularization of hi-tech horticulture 2.Polythene mulch and staking for higher productivity in tomato 3.Mushroom cultivation 4.Nursery raising 5.Quality mango production 6.Quality planting material production from fruits and vegetables 7.Value addition in mushroom 8.Value addition of fruits and vegetable

			9.Field day, awareness campaign 10. Demonstration on fodder cultivation like hybrid mapier, guinea grass etc. 11. Field day, media coverage
Nayagarh	27.01.2015	22	1.Backyard poultry 2.Backyard poultry rearing 3.Field day, media coverage and publication 4.Hybrid sunflower cultivation 5.HYV greengram and blackgram cultivation 6.FLD on SSI 7.Training on SSI 8.Field day, media coverage and publication 9.Popularize vermicomposting and vermin production 10. Training on organic farming for sustainable agriculture 11. Assessment of baby corn var. HM-4 12. Awareness 13. Assessment of drudgery reduced tools and implements in sugarcane, maize, groundnut, sunflower etc.

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

KVK Name	No. of messages sent	No. of beneficiary		Sponsoring agency (NIC, Farmers Portal, etc.)	Major recommendations
		Farmers	Ext. Pers.		
Nayagarh	169	1277		Farmers portal	ICM, IPM, IDM, IWM, Awareness, Livestock, Fishery, Mushrooms, Weather forecast

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	RKVY	State	67,00,000	Construction of boundary wall	KVK, Nayagarh	-

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Nayagarh	33991533548	1,92,177	2,79,118	2,79,118

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Nayagarh	Arun Gochhayat	Individual	OUAT	
Nayagarh	Abakash Sahoo	Individual	KVK	
Nayagarh	Maa Mangala SHG Group, Nagpur	Group	KVK	

18. Details of KVK Agro-technological Park

a) Have you prepared layout plan, where sent?

S.No.	Name of KVK	Technology park proposal developed(yes/no)	If yes, where sent ? (ZPD/DES/any other, pl. sp.)
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1	Nayagarh	Yes	DES
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b) Details about Technology Park

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

c). Crop Cafeteria-

Sr. No.	Theme of Crop Cafeteria	No. of Crop Cafeteria

19. Farm Innovators- list of 10 Farm Innovators from the District

Sr. No.	Name of KVK	Name of Farm Innovator	Name of the Innovation	Address of the farmer with Mobile No.
1.	Nayagarh	Mr. Ullash Sahoo	Income generation (mushroom)	Kalikaprasad, Ph.no-9938272844
2.	Nayagarh	Mr. Bipra Charan Biswal	SSIE (Motor bed winnower)	Janisahi, Ph.no-9658737278
3.	Nayagarh	Mr.Sumanta Sundaray	Manual operated trolley	Manapur Ph.No-7504562566
4.	Nayagarh	Mr.Pabitra Khuntia	Low cost lifter	Gholasahi Ph.no.9937224235
5.	Nayagarh	Mr.Shyama sundar Nayak	New innovative idea regarding line sowing in greengram	Biridi- Ph.No 9853532468
6.	Nayagarh	Mr.Suryamani Nayak	Direct seeding of sugarcane buds in main field instead of using protray	Anlamada- Ph.No 9938420530

20. KVK interaction with progressive farmers

Sr. No.	Date and month of interaction programme with progressive farmers	No. of progressive farmers to be participated
1	20.12.2014	50
2	03.03.2015	50

21. Outreach of KVK

Name of KVK	Number of Blocks		Number of Villages	
	Intensive	Extensive	Intensive	Extensive
Nayagarh	8	8	65	152

Intensive- OFTS, FLDS etc

Extensive- Literatures, Publications, Awareness programmes etc.

22. Technology Demonstration under Tribal Sub Plan on Pulses/ Programme on Harnessing Pulses/ Quality Protein Maize, if applicable.NA

Sr. No.	Name of crop under Technology demonstration	Area under the programme	No. of Extension Activities	Remarks / Lessons learnt

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23. KVK Ring

Sr. No.	Name of Ring Partner	Sharing Activity	Lessons learnt/ Experiences gained.
1	KVK, Ganjam-I	Man power, Technology, Inputs	Vermi rearing and hatchery
2	KVK, Kandhamal	Man power, Technology, Inputs	Production technology of local turmeric variety
3	KVK, Puri	Man power, Technology, Inputs	

24. Important visitors to KVK

Name of KVK	Name of Visitor	Date of Visit	ICAR	SAUs	Others	Remarks
Nayagarh	Dr. S. S. Nanda	13.8.14, 27.01.14, 3.03.15 & 22.04.15	-	SAU	-	Attended SAC meeting & farmers fair, Official visit
Nayagarh	Sj.H.K.Padhi	19.08.14	-	-	Collector-cum-District Magistrate	Official visit
Nayagarh	Dr.Prem Chand	7.02.15	ICAR	-	-	Stake holders interface meeting

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
	Nayagarh	Blocked		

26. 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			

27. Status of RTI: NA

Sr. No.	Name of KVK	No. of RTI applications received	No. of RTI appeals	Remarks

28. Status of Citizen Charter

Sr. No.	Name of KVK	Query received(Nos)	Query Disposed(Nos)	Remarks
1	Nayagarh	312	312	

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Nayagarh	T.Badjena	SMS, Agril. Extension	1	
Nayagarh	Rosalin Praharaj	Prog. Asst. (computer)	1	
	Total		2	

Name of KVK	Total Number of staff Attended HRD Programme organized by ZPD (nos)	Total Number of Programme attended (Nos)
Nayagarh	2	2

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Nayagarh	Mr. Arjuna Mohan Prusti	SMS (Plant Breeding)	1	
Nayagarh	Mr. Trinath Khandaitaray	SMS (Plant Protection)	1	
Nayagarh	Miss Swagatika Sahu	SMS (Fisheries)	1	
Nayagarh	Mr.Amitabh Panda	SMS, Horticulture	1	
Nayagarh	Mr. Tribijayi Badjena	SMS (Agril. Extension)	1	
Nayagarh	Mrs.J.Udgata	SMS, H.Science	1	
Nayagarh	Mrs. Rosalin Praharaj	Pro. Asst. (Computer)	1	
Nayagarh	Mr. Bikram Keshari Parimanik	Pro. Asst. (Forestry)	1	
Nayagarh	Miss.S.Mallick	Steno-cum-computer operator	1	

Name of KVK	Total Number of staff Attended HRD Programmes organized by DES (nos)	Total Number of Programmes attended (Nos)
Nayagarh	9	9

31. Attended HRD Programmes by KVK Staff (Refresher course, Short course, Training programme etc.)

Name of KVK	Name of Staff	Post held	Programmes attended (Nos)	Remarks
Nayagarh	T.Khandayatiray	SMS, Plant Protection	1	
Nayagarh	A.Panda	SMS, Horticulture	1	
Nayagarh	S.Sahu	SMS, Fishery	1	

Name of KVK	Total Number of staff Attended HRD Programmes by KVK staff (nos)	Total Number of Programmes attended (Nos)
Nayagarh	3	3

32. Agri alert report (Epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
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Nayagarh	Awareness, Group discussion, Demonstration on spraying	4	100	Paddy
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33. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Name of KVK	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Nayagarh	Awareness campaign on bio-control of pests	1	50	Bio-control in sugarcane
Nayagarh	Farmers-scientists interaction	2	100	Prospects of off- season vegetable cultivation
Nayagarh	Exhibition	1	50	Scientific technologies on various crop & livestock's
Nayagarh	Film show	7	350	IPM, IDM, INM, IWM, mushroom cultivation, vermin-composting, varietal diversification in rice & vegetables
Nayagarh	Soil health Awareness campaign	1	50	-
Nayagarh	Road show	1	-	Latest Scientific technologies on various crop & livestock's
Nayagarh	Animal Health Camp	1	35	All kinds of livestock's

34. 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

Name of KVK	Crops	Area (ha)	Number of beneficiaries

Farmers-scientists interaction on livestock management

Name of KVK	Livestock components	Number of interactions	No. of participants

Animal health camps organized

Name of KVK	Number of camps	No.of animals	No.of farmers

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

Bio-Fertilizer

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

Vermis Produced

Name of KVK	Vermis Produced	Quantity (q)	Coverage of Area (ha)	No. of Farmers

Large scale adoption of resource conservation technologies

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

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

35. Proposal of NICRA: NA**1. Technologies to be Demonstrated**

Name of Technology	Name of Crop	Area (ha.)	Yield	% change in Yield	No. of farmers benefitted

2. Proposed Extension Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

3. Proposed Training Activities in NICRA Village

Name of Activity	Number of Participants/Beneficiaries to be Covered			
	Farmers	Farm Women	Official	Total

4. Proposed Activities for Fodder Bank

Established (Years)	Capacity	Current Status

5. Proposed Activities for Seed Bank

Established (Years)	Capacity	Current Status

6. Public Representative/District Administration Visited in NICRA Village

Name of Representative/Officer	Designation	Date of Visit	Any Special Remark by Visitors

7. Feedback of Farmers for future improvement, if any.

36. Proposed works under NAIP (in NAIP monitoring format): NA

37. Case study / Success Story developed – Two best only in the following format

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



Sr. no.	Name of KVK	No. of success stories	No. of case studies
1	Nayagarh	1	1

Success Story - 1

Integrated farming –A successful Enterprise to Rural farmer

Background information

Mr. Abakash sahu of village Harekrushnapur, Block- Nayagarh is a young motivated farmer. He owned 12 acres of land at village Damuni of Nuagaon block. As it was a forest based land, he kept 100nos of goat Var. Black bengal in that area. He also cultivated vegetables such as brinjal, tomato in 1 acre and rest lands were as fallows. He was in search of suitable crops and enterprises for utilization of this land.

Description of the technology

Pisciculture

- Scientifically pisciculture activities by stocking 2000 no/ yearlings with manuring goat manure , poultry manure and feeding oil cakes such as GNOC, mustard oil cake, and rice bran 1:1 Ratio.
- Replacement of normal rohu with jayanti rohu and stocking C:R at a ratio of 3:4:3 @ 5000 no/ ha
- Utilised 4 small ponds (Less than 20 decimil) for fry, fingerlings and Yearlings rearing.
- Introduced dual purpose poultry Vanraja and duckery white pekin, khaki Campbell for egg and meat purpose.
- Regular internal deworming to goats for health care and high meat.
- Use of HYV and hybrid Var. Neelachal kranti (Brinjal), Bhima Shakti (onion), Swarna Sampad (Tomato) for vegetables
- Nutrient management in pointed gourd, cashew and need based application of plant protection chemicals.

Other enterprises

- Vermi compost, Mushroom

By govt. support, he planted 200 nos mango var. (Amrapalli) in 1 ha area and 200 nos. of Lemon and 1 acre with palm oil.

Dissemination process

- After contact with KVK scientists, he diverted to integrated farming system.
- Various activities like on farm testing, frontline demonstration, trainings, exposure visits, organization of field day and awareness campaign were conducted with farmers full cooperation and active participation.
- Training programme on feed preparation and feeding management, water quality analyses were organized in village Damuni during the year 2012-13.
- On farm testing on “assessment of growth performance of Jayanti rohu, Assessment of Bhimasakti (onion) Neelachal kranti, & frontline demonstration of production of stunted fingerlings, demonstration of integration of dual purpose poultry and duckery in pisciculture.
- Demonstration on INM in pointed ground, Demonstration of HYV of Brinjal, Neelachal Kranti were conducted in Damuni as A. Sahoo one of the beneficiary.
- Time to time field visits were undertaken to Damuni and field day was conducted with farmers from nearby villages.

Success points

- Sri Abakash Sahoo had taken up scientific composite fish culture instead of traditional practice which is highly profitable enterprise.
- Raising of stunted fingerlings/ yearlings got seed availability throughout the year.
- Use of HYV, Hybrid seeds such as Nilachala kranti (Brinjal) Swarna sampad (Tomato), Bhima Shakti (onion) instead of local seed produced more yield.
- Keeping poultry var. Vanaraja was more profitable than desi birds.
- Planting high yielding mango varieties with correct spacing, nutrient management and pruning will fetch good yield in future.
- Grazing goat near- by forest areas, feeding concentrated feed regularly, deworming and other health care got high price of goat and good off springs with less mortality.

Out come

Sri Sahoo earned a net profit of Rs. 425000/- by investing of Rs. 285000/-. The highest profitable enterprise was goatery i.e. Rs 2, 00,000/- followed by fisheries Rs.1,60,000/-. For his significant contribution to IFS, Sri Sahoo has been awarded by the Dean, DEE, OUAT on the eve of KVK,s farmers fair.

Impacts

The success of Sri Sahoo has inspired many farmers of Damuni, Lingiribari and Gateri to adopt the IFS system.

More than 28 farmers were taken up in Nuagaon block

PHOTOGRAPHS



Demonstration on duck integration in fish pond



Duck cum fish culture – an effective component in IFS



Feeding management to ducks



Harvesting of fishes

Case Study-1

Marigold Cultivation – A boon to farmer

Background information

Marigold flower occupies a unique position among rural households besides largely used in decoration as loose flower and garlands. Mostly yellow coloured African marigold is cultivated in Nayagarh district which is having poor self life and poor market value. Mrs. Mamata Swain, W/O-Sanatan Swain aged 33 years is a house wife of village Mardarajpur of G.P Biruda. She used to help her husband in usual farming activities but always in search of a new enterprise which is not labour intensive and she can do it by staying

at home. In the year 2013, she along with other members of SHG took up marigold cultivation, but failed to reap a good profit due to lack of technical know-how, low quality seed and poor marketing tie-up.

Description of Technology

- Seed African marigold var. Ceracola
- Seed treatment with vitavax power @ 2g/liter of water
- Sowing of seed in raised nursery bed
- Preparation of main plot with incorporation of FYM
- Bed preparation 2.5 ft wide
- Bed to bed distance 1ft wide
- Seedling treatment with Bavistin @ 0.2% and streptocycline @0.1%
- Paired row method of planting at 60cm x 45cm (R x P)
- Foliar application of NPK (19:19:19) at 21 days after planting further at weekly interval @ 0.5%
- Need based plant protection measures.
- Pinching of apical buds.
- Irrigation in the inter bed space

Dissemination Process

- The young lady was trained up in KVK campus about the advances in marigold production
- She was chosen as one of the beneficiary in conducting FLD on marigold
- Further she was exposed to another motivated lady of near- by village who earlier took up marigold and reaped a handsome profit
- She interacted with the local florist shop who assured her sale of her produce
- Time to time field visits were undertaken to village mardarajpur

Success Points

- Mrs Swain took up marigold which was not so much labour intensive
- She employed her family labour in planting and picking of flower
- Instead of marketing as loose flower, she sold in the form of garlands

Outcome

Smt. Swain earned a net profit of Rs.19,500 with an expenditure of Rs.3,500 from an area of 20 decimil

Impact

Smt. Swain was certainly a torch bearer for the rural housewives whose thinking was confined to upbringing of family members. One field day was conducted in her field comprising of 50 farm women of nearby villages who got en-lighted with her endeavor. Ten self- help groups have come forward for taking up marigold cultivation in next year as an enterprise.

PHOTOGRAPHS



Plucking of loose marigold flowers from the field



Making of garlands from loose flowers

Field day organized at Biruda village



Garlands ready for sale

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

Good quality photographs

OFT PHOTOGRAPHS



Harvesting of cauliflower from T2 and T3 treatments



Spraying of new generation insecticides like Indoxacarb and spinosad for DBM in cauliflower



Assessment of rice hybrids



Rice hybrid CR Dhana 701



Rice hybrid Rajalakhmi



Micronutrient application in Fish pond

FLD PHOTOGRAPH



FLD on Performance of IPM for BPH mgt. in rice



Observation on number of tillers



Happy farmers with SSI sugarcane



FLD on Performance of African marigold var. Ceracola in late kharif



Demonstration on Duck integration in pisciculture



PC, KVK, Nayagarh addressing the participants in SAC meeting



Inauguration of KVK, News letter



A progressive farmer is felicitated on the eve of farmers fair



Hon'ble DEEs field visit

PUBLICATIONS

