ANNUAL REPORT

2016-17

KVK, NAYAGARH

OUAT, BHUBANESWAR

ZPD (ICAR) ZONE VII

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. **Grey 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 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 2016 to March 2017

Summary of KVK Annual Report (Quantifiable Achievement) for the year 2016-17

S.N.	Quantifiable Achievement	Number	Beneficiaries (nos.)	
1	**On Farm Testing**			
	Proposed OFT	**18**	123	
	On Going OFT	**5**	27	
	Technologies assessed (Completed OFT)	**13**	96	
	Technologies refined	**-**	-	
	On farm trials conducted	**18**	**123**	
2	**Frontline demonstrations**			
	Proposed Frontline demonstrations	**19**	162	
	On Going Frontline demonstrations	1	10	
	FLDs conducted on crops	12	120	
	Area under crops (ha.)	13.4ha	110	
	FLD on farm implement and tools	2	20	
	FLD on livestock/ AH enterprises (Dairy/ Sheep and Goat/Poultry/ Duckery/ Piggery etc.)	1	2	
	FLD on Fisheries - Finger lings	1	5	
	FLD on other enterprises (Bee keeping, lac, mushroom, sericulture, value addition, vermi compost, etc.)	-	-	
	FLD on Women in Agriculture - (Nutritional garden, Income generation, Value addition, Drudgery reduction, etc.)	3	25	
3	**Training programmes**	**No. of Course**	**Duration (days)**	**Participants**
	Farmers	56	92	1400
	Farm women	4	8	100
	Rural youth	-	-	-
	Extension personnel/ In service	6	12	150
	Vocational trainings	9	42	180
	Sponsored Training	4	40	125
	Total	79	184	1955
		No. of programmes	**Participants**	
4	**Extension Programmes**			
5	**Production of technology inputs etc**	**Qty**	**Beneficiaries (nos.)**	
	Seed (qt.)			
	Planting material produced (nos.)	40000	650	
6	**Livestock**	**Qty**	**Beneficiaries (nos.)**	
	Livestock strains (Nos)			
	Milk Yield - Cow, Buffelo etc. (in liter)	-	-	
	Fish (Kg.)	-	-	
	Fingerlings (Ornamental fish) (nos.)	510	25	
	Poultry-Eggs (nos.)	-	-	
	Ducks (nos.)	-	-	
	Chicks etc. (nos.)	1100	115	

7	**Bio Products**	**Qty**	**Beneficiaries (nos.)**	
	Bio Agents -Earth worm (Kg.)	2 MT	357	
	Trichoderma (kg.)			
	Bio Fertilizers- Vermi compost, Rhizobium, PSB , BGA , Mycorriza , Azotobacter , Azospirillum etc. (Kg.)			
	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)	3	3	
	Publications (Res. Paper/ pop. Art./Bulletin,etc.)	1	-	
	KVK News letter	4	2000	
	SAC Meetings conducted	1	24	
	Soil sample tested	125	625	
	Water sample tested	-	-	
	RWH System (Special training and field visit on RWH structure and MIS in KVKs)	-	-	
	KVK-KMA (Message and beneficiaries)	70	7291	
	Convergence programmes	3	500	
	Sponsored programmes	4	125	
	KVK Progressive Farmers interaction	2	1000	
	No. of Technology Week Celebrations	15	710	
	Attended HRD activities organized by ZPD	3	3	
	Attended HRD activities organized by DES	3	3	
	Attended HRD activities by KVK Staff(Refresher /Short course, Training programme etc.)	3	3	
9	Current status of Revolving Funds (Amt. in Rs.)		**Rs.4,59,462**	
10		**No. of blocks**	**No. of villages**	
	Outreach of KVK in the District	8	152	
11		**ICAR**	**SAU**	**Others**
	No. of important visitors to KVK (nos.)	2	2	5
12		**Working (Yes/No)**	**No. of Update**	
	Status of KVK Website	Yes		
13		**Application received**	**Application disposed**	
	Status of RTI (nos.)	-	-	
14		**Query received**	**Query dissolved**	
	Citizen Charter (nos.)	-	-	
15		**Working (Yes/No)**	**No. of programme viewed**	
	E-connectivity	-	-	
16		**Filled**	**Vacant**	
	Staff Position	13	03	
17	Workshop/ Seminar/ Conference attended by staff of KVK (nos)	1 (District level workshop on ARYA)		
18	Publication received from ICAR /other organization (nos.)	-		
19		**Particulars**	**Organization**	
	Agri alerts (epidemic, high serious nature problem, Cyclone etc. reported first time to ZPD, SAU, Agri. Deptt. and ICAR)	-	-	

GENERAL INFORMATION

1.1. Staff Position (as on date)

Summary of Staff position in KVKs on March, 2017

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	0	6	6	3	2	6	5	16	13

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	**Sr. Scientist & Head**	**Vaccant**								
Nayagarh	Scientist (I/C Sr. Scientist & Head)	**D**r.Amitabh Panda	Horticulture	Ph.D	Horticulture	15600-39100	23070	4.04.11	Temporary	**Others**
Nayagarh	Scientist	Mr. Trinath Khandaitaray	Plant Protection	M. Sc	Entomology	15600-39100	22220	18.07.09	Temporary	Other
Nayagarh	Scientist	Mr. Tribijayi Badjena	Agril. Extension	M.Sc	Agril. Extension	15600-39100	19810	7.04.10	Temporary	Other
Nayagarh	Scientist	Dr.Swagatika Sahu	Fishery Sc.	Ph.D	Fisheries	15600-39100	19810	9.11.12	Temporary	Other
Nayagarh	Scientist	Mrs Bijaya Laxmi Rout	WIA	M.Sc	Home Science	15600-39100	19810	25.01.16	Temporary	Other
Nayagarh	Scientist	Mrs. Suchismita Dwivedy	Agril. Engg.	M .Tech	Agricultural processing & food engineering	15600-39100	16250	22.01.16	Temporary	Other
Nayagarh	Programme Assistant	Mr. Bikram Keshari Parimanik	Pro. Asst. (Forestry)	M.Sc	Forestry	9300-34800	13450	16.10.06	Temporary	Other
Nayagarh	Farm Manager	Vacant								
Nayagarh	Prog. Assistant	Mrs. Rosalin Praharaj	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	13450	14.02.14	Temporary	Other
Nayagarh	Stenographer	Smt. T.Chhualasingh	Jr. Steno Cum Computer	B.A	-	5200-20200	5200	11.11.16	Temporary	Other

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	**Sr. Scientist & Head**	**Vaccant**								
			Operator							
Nayagarh	Driver	Mr. Rabi Narayan Mohapatra	Driver/Mechanic	Intermediate	-	5200-20200	6110	22.07.08	Temporary	Other
Nayagarh	Driver	Mr. K. Mohanty	Driver/Mechanic	Matric	-	5200-20200	6600		Temporary	Other
Nayagarh	Supporting staff	Mr.Harihar Pradhan	Peon/Watchman	ME	-	4440-7440	5580	1.12. 14	Temporary	Other
Nayagarh	Supporting staff	Vaccant	Peon/Watchman	ME	-	4440-7440	-	-	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	177	9,62,000	79.12	1,72,245	1,44,083	0.94 ha

1.	Geographical area of the district	3,89,000 ha (3890 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	1703
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	44.0^0C
15.	Minimum temperature	11.0^0C

16.	Population density	247/sq. km.
17.	Area under forest	38,086 ha.
18.	Area under cultivation	1, 34,000 ha.
	High land	45,000 ha
	Medium land	49,000 ha
	Low land	40,000 ha
19.	Kharif irrigated area	45,390 ha.
	Rabi irrigated area	21,670 ha.

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	**Anlamada**	**2012**	**Khandapada**	**12km**	**570**	**435**
Nayagarh	**Darpanarayanpur**	**2012**	**Ranpur**	**35km**	**625**	**575**
Nayagarh	**Beguniapatna**	**2013**	**Nayagarh**	**18km**	**875**	**483**
Nayagarh	**Damuni**	**2014**	**Nuagaon**	**32Km**	**325**	**125**
Nayagarh	**Katarajhari**	**2015**	**Odagaon**	**18Km**	**250**	**180**
Nayagarh	**Erundipathara**	**2016**	**Gania**	**42Km**	**73**	**12**

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.
Nayagarh	Varietal substitution in rice, particularly for rain-fed upland and medium land types.

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

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), Beguniapatna(Nayagarh)
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),Chandi, gopalipada, Khandapada
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, Raghunathpur(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	PRA Survey, Group Discussion,	Lingiribari(Nuagaon)

	eating caterpillar	Diagnostic Visit, Farmers club matting	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)) Suamadhipa(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 (OFT)

Note-

- **Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.**
- **Crop name should be spelled correct and standard English name should be used i.e Chick pea in place of gram/chana , Paddy in place of Rice/chawal , brinjal in place of egg plant/bhata/baigan etc.**
- **Don't press enter key to navigate among column use arrow or tab key**
- **don't add space before or after statement within the table cell**
- **Kindly mention realistic estimated yield of your crop under trail.**
- **If crop has been not yet harvested, mark it * on that**

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)	T3	FP (T_1)	RP (T_2)	T3	
Nayagarh	2016	Kharif	Low yield in rice due to heavy incidence of rice sheath blight	Assessment of IDM for Sheath blight management in Rice	Assessment	IDM	Rice	Rainfed Medium	07	42.7	53.8	50.5	25203	36349	31865	-
Nayagarh	2016-17	Rabi	Less yield and less marketability due to severe melon frit fly	Assessment of management practices for melon fruit fly in Bittergourd	Assessment	IDM	Bitter gourd	Irrigated medium	07	242.3	278.9	295.8	106176	132879	148636	

			infestation in bittergourd.													
Nayagarh	2016-17	Rabi	Severe leaf curl incidence at the initial stages of crop growth reduced yield by 22%,area affected 250ha	Assessment of IPM for leaf curl in chilli	Assessment	IPM	Chilli	Irrigated medium	07	97.6	117.8	122.3	63218	84669	92634	-
Nayagarh	2016-17	Rabi	Diamond back moth infestations in cabbage,yield reduction 29%, area affected 345ha	Assessment of integrated management for diamond back moth in cabbage	Assessment	IPM	Cabbage	Irrigated medium	07	226.1	263.8	274.3	47703	61741	68231	
Nayagarh	2016	Kharif	Less no. of fruits /plant, Low yield (1kg per plant per season),50 % area affected.	Assessment of suitable kharif tomato hybrids under upland condition	Assessment	Varietal evaluation	Tomato	Irrigated upland	07	168.2	192.65	188.3	79680	133200	49430	
Nayagarh	2016	Kharif	Irregular bearing habit of CV. Dashehari leading to on year and off year	Assessment of application growth regulator to control irregular bearing habit of mango	Assessment	ICM	Mango	Irrigated upland	07							
Nayagarh	2016	Kharif,	Low yield due to single	Assessment of the performance	Assessment	Varietal evalu	IMC	Clay loam rainfed	3	21.66	29.7 28.0 28.8	-	130000	162270 146900 154000		

			harvest with Indian major carps (IMC) like catla, rohu, mrigal No intermediary y income during the culture period Avg. 65% ponds of ACZ is associated with the problem	of new species in carp polyculture system		ation										
Nayagarh	2016	Kharif	The cost of ingredients (oil cake and Paddy bran) in traditional feed is increasing and the FCR is more than 3 in fish seed rearing	Assessment of performance of different feed for fry to fingerlings rearing	Assessment	Production & management	IMC	Pond based	3	1.58 lakh/ha	2.28 lakh/ha 2.17 lakh/ha	2.17	79500	110000 106500	106500	Feeding with floating feed gave higher survival of rate then feeding with slow shrinking crumble feed & rice bran GONC feed
Nayagarh	2016-17	Rabi	Improper nutrition in dairy animal cause low milk yield, less fat and SNF	Assessment of bypass fat feeding on milk production of dairy cattle	Assessment	Nutrition management	CB	Homestead	13	12.4ltr/day	13.67 ltr/day		153/day	255/day		
Nayagarh	2016	Kharif	high cost of cultivation,	Assessment of 8 row self-	Assessment	Medium &	Paddy	Farm Mechani	13	45.1	44.2	-	38401	34292	-	-

			more labour and time requiremen t	propelled rice transplanter		Rainf ed		zation								
Nayaga rh	2016 -17	Rabi	Unavailabil ity of labour , More cost and time	Assessment of pre germinated paddy seeder. .	Asses sment	Medi um & Rainf ed	Padd y	Farm Mechani zation	13	40.9	40.1	-	31057	28164	-	-
Nayaga rh	2016 -17	Rabi	Low net return in traditional method of sowing of green gram due to high cost of cultivation, more labour and time requiremen t	Assessment of Zero Till Drill for line sowing of Green gram.	Asses sment	Medi um & Rainf ed	Green gram	Farm Mechani zation	13	5.79	4.12	-	34740	24720	-	-

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)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP(T_2)	Refined Practice, if any (T_3)	FP (T_1)	RP (T_2)	Refined Practice, if any (T_3)
	Assessment of IDM for Sheath blight management in Rice	No. of infected plant/m2	10.5	2.7 4.3	35004	39509	39340	60207	75858	71205	25203	36349	31865	1.72	1.92	1.81
	Assessment of management practices for melon fruit fly in Bittergourd	No. of melon fruit fly infested fruits/plant	15.1	5.8 3.6	136124	146021	147164	242300	278900	295800	106176	132879	148636	1.78	1.91	2.01
	Assessment of IPM for leaf curl in chilli	Leaf curl %	18.1	7.5 4.4	83184	92031	90816	146400	176700	183450	63218	84669	92634	1.76	1.92	2.02
	Assessment of integrated management for diamond back moth in cabbage	DBM infestation (%)	21.5	8.6 7.5	65347	70159	68919	113050	131900	137150	47703	61741	68231	1.73	1.88	1.99
	Assessment of suitable kharif tomato hybrids under upland condition	No of fruits/plant	45	62	88520	102300	82380	168200	235500	131810	79680	133200	49430	1.9	2.3	2.6
	Assessment of application growth regulator to control irregular bearing habit of mango			Continuing												
	Assessment of the performance of new species in carp polyculture system	Yield	21.66	29.7 28.0 28.8	105000	108000 107900 108000	-	235000	270270 254800 262000	-	130000	162270 146900 154000	-	2.24	2.50 2.36 2.43	
	Assessment of performance of different feed for fry to fingerlings rearing	Servibility %	52.67	76.0, 72.33	78500	118000	110500	158000	228000	217000	79500	110000	106500	2.01	1.93	1.96

	Assessment of bypass fat feeding on milk production of dairy cattle	-	-	-	120/day	155/day	-	273/day	410/day	-	153/day	255/day	-	2.27	2.64	-
	Assessment of 8 row self-propelled rice transplanter	Yield (q/ha)	29520	30650		60375	64050		30855	33400		1.04	1.08	-	-	-
	Assessment of pre germinated paddy seeder. .	Yield (q/ha)	28750	26680		52250	54275		23500	27595		1.8	2.03	-	-	-
	Assessment of Zero Till Drill for line sowing of Green gram.	Yield (q/ha)	19850	13021		74160	74160		34740	24720		1.7	1.89			-

2.3 Information about Home Science OFT: (For All Thematic Area)

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	, 2016	Kharif	Low yield (Avg. 700gm/bed) from local strain	Assessment of yield potential of different strains of paddy straw mushroom (*V. volvacea*)	Assessment	Income generation	mushroom	Enterprise	Homestead	13	
Nayagarh	2016	Rabi	Post-harvest loss	Assessment of dehydrated products from jackfruit(tender)	Assessment	Value addition	jackfruit		Homestead	13	
Nayagarh	2016	Rabi	Low income due to low productivity and high mortality of local deshi	Assessment of Rearing dual purpose poultry breed Denim Red.	Assessment	Income generation	Denim red		Homestead	13	

			bird.								
Nayagarh	2016-17	Kharif	Loss of grain due to store grain pest	Assessment of store grain pest management in rice.	Assessment	Post harvest mgt.	rice	Enterprise		13	It is highly acceptable

2.4 (A) Economic Performance Home Science OFT: (For Drudgery Reduction)

KVK name	OFT Title					Performance Indicator / Parameter									
		Output m2/h		Est. Energy Expenditure kj/min.		WHR beat/min		% reduction in drudgery		% increase in efficiency		Cardiac Cost of Work		% Saving of cardiac Cost	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

2.4 (B) Economic Performance Home Science OFT: (For Income Generation)

KVK name	OFT Title	Performance Indicator / Parameter											
		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Nayagarh	Assessment of Rearing dual purpose poultry breed Denim Red.	1.1kg/3 month	2.7kg/3 month	1600	1600	3850	8100	1.1kg/3 month	2.7kg/3 month	2250	6500	6500	2.7 5.0
Nayagarh	Assessment of store grain pest management in rice.	25.84	8.1	20/bag	100/2 nos of TNAU trap	37.08	46	25.84	8.1	-	24.25	24.25	-
Nayagarh	Assessment of differed hoigh yielding strains of paddy straw mushroom (sp. V.V)	1kg/bed	1.2kg/bed	40	40	120	144	1	1.2	80	104	104	3 3.6

2.4 (C) Economic Performance Home Science OFT: (For value addition)

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
	Assessment of dehydrated products from jackfruit(tender)	No value addition	Tender jackfruit deeping in vine solution for 2hr at 40-50 centigrate	20 nos of raw jackfruit	4 kg dehydrated product	20 nos of raw jackfruit	4 kg dehydrated product	50	100	400	1200	400	1100	700	8 12

2.4(D) Economic Performance Home Science OFT: (For Nutritional security)

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

2.5 Feedback from KVK to Research System

Name of KVK	Feedback
Nayagarh	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 Low cost feed for pangasius cultivation Low cost small implements for drudgery reduction 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. Hopper type winnower is easy and safe to use than fan type winnower. TNAU trap is handy and effective for rice weevil control. Tomato variety Chiranjibi is more preferred than Swarna sampada for value addition

3. Achievements of Frontline Demonstrations (FLD)

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	20	Green manuring in direct seeded kharif rice	Training, leaf lets, exposure visit, video show, news paper	21	230	209
KVK, Nayagarh	Rice	10	Varietal substitution in rice	Training, leaf lets, exposure visit, news paper	22	185	220
KVK, Nayagarh	Pea	11	Pyara cropping of field pea	Training, leaf lets, exposure visit, news paper	13	109	161
KVK, Nayagarh	Banana	10	Cultivation of Tissue cultured banana	Training, Farm Visit, Exposure visit, Film show	34	83	30
KVK, Nayagarh	Papaya	10	Cultivation of high yielding variety of papaya	Training, Farm Visit, Exposure visit, Film show	19	97	24
KVK, Nayagarh	Elephant Foot Yam	10	Introduction of improved EFY Var. Gajendra	Training, Farm Visit, Exposure visit, Film show	13	179	17
KVK, Nayagarh	Arrowroot	55	Crop substitution with arrowroot.	Training leaf lets, exposure visit,	35	184	68
KVK, Nayagarh	Turmeric	10	Introduction of improved Turmeric var. Suroma	Training, Farm Visit, Exposure visit, Film show	16	39	7
KVK, Nayagarh	Rice	20	Integrated pest management in rice	Training, leaf lets, exposure visit, video show, news paper	12	171	118
KVK, Nayagarh	sugarcane	20	Biological control of sugarcane borers	Training, leaf lets, exposure visit, video show, news paper	32	263	198
KVK, Nayagarh	Bee keeping	19	Bee keeping for rural youth	Training, leaf lets, exposure visit, video show, news paper	15	37	121 Units
KVK, Nayagarh	Brinjal	20	Integrated pest management in brinjal	Training, leaf lets, exposure visit, video show, news paper	17	159	99
KVK,	Tomato	20	Microbial control of tomato	Training, leaf lets, exposure	12	72	38

Nayagarh			fruit and shoot borer	visit, video show, Kisan mela			
KVK, Nayagarh	Fresh water prawn	55	Freshwater prawn culture	Trainings, exposure visit, field day, video show	19	58	37
KVK, Nayagarh	Ornamental fish	51	Ornamental fish culture	Trainings, exposure visit, video show, field day	8	49	18 Unit
KVK, Nayagarh	IMC	15	Pond based farming system	Trainings, exposure visit, kisan mela, video show	22	87	33
KVK, Nayagarh	Poultry	51	Backyard poultry rearing	Trainings, exposure visit, kisan mela, video show	35	97	67 units
KVK, Nayagarh	Maize	---	Use of maize sheller for drudgery reduction	Training, poster and leaflets	20	112	112 units
KVK, Nayagarh	Sunflower	--	Use of sunflower thresher for drudgery reduction	Training, poster and leaflets	12	74	35 units
KVK, Nayagarh	Mahua flower	51	Use of low cost solar dryer for drying mahua flowers	Training, poster and leaflets	10	10	10 units
KVK, Nayagarh	EFY	10	Introduction of Elephant Foot Yam var. Gajendra	Training, Farm Visit, Exposure visit, Film show	29	193	13
KVK, Nayagarh	Sugarcane	10	Varietal substitution by high sucrose content variety	Training, Group discussion, News paper coverage	7	31	10
KVK, Nayagarh	Bamboo	11	Growing of bamboo raised through culm cutting method	Training, Farm Visit, Exposure visit, Booklet	17	45	35
KVK, Nayagarh	Acacia mangium	11	Growing of *Acacia mangium*	Training, Group discussion, News paper coverage	8	63	6

Note-

- **Thematic area should be spelled correct and follow standard pattern i.e. Integrated Nutrient Management in place of INM or Inte. Nutrient Mngt. Etc.**
- ***Crop name should be spelled correct and standard English name should be i.e Chick pea in place of gram, Paddy in place of Rice , brinjal in place of egg plant etc.**
- ***Don't press enter key to navigate among col use arrow or tab key**
- ***don't add space before or after statement within the table cell**
- **Kindly mention realistic estimated yield of your crop under Demonstration.**
- **If crop has been not yet harvested, mark it * on that**

3.2 Details of FLDs implemented

KVK Name	Thematic area	Name of Crop/ Enterprise	Season and year	Technology demonstrated	Crop- Area (ha) / Entrep - No.	Name of Variety Entreprizes	Results (q/ha)		% change	No. of farmers				
							Demons	Check		SC	ST	OBC	Others	Total
Nayagarh	IPM	Rice	Kharif 2016	Demonstration on IPM for BPH mgt. in rice	2.0 ha	Pratiksha	51.5	42.9	20.04	2	0	6	5	13
Nayagarh	IPM	Maize	Kharif 2016	Demonstration on IPM for borer management in maize	1.0ha	Nilesh	52.1	43.3	20.32	3	7	2	1	13
Nayagarh	IDM	Greengram	Rabi 2016-17	Performance of IDM for seed and seedling blight in green gram in rice-greengram cropping system	1.0ha	IPM – 2-14	6.01	4.98	20.68	7	0	2	4	13
Nayagarh	Feed and Fodders	Hybrid Napier	Kharif 2016	Demonstration on Hybrid Napier fodder crop	1.0ha	CO-4		Result awaited		0	0	7	6	13
Nayagarh	ICM	Solanaceous vegetable crops	Kharif 2016-17	Demonstration of low cost poly-tunnel for seedling raising	13 units	Solanaceous vegetable crops	4860 seedling / 3 bed	1794 seedlings / 3bed	170%	3	2	3	5	13
Nayagarh	ICM	Marigold	Kharif 2016-17	Demonstration on HYV of marigold, Ceracola	1.0 ha	Marigold	102.8	82.6	24.4	2	4	2	5	13
Nayagarh	Varietal evaluation	Brinjal	Rabi 2016-17	Performance of HYV of Brinjal, Arka neelanchala shyama	1.0 ha	Akra Neelanchala Shyama	260.3	208.8	24.4	2	3	2	4	13

Nayagarh	Integrate crop mgt.	Cashew	Rabi 2016-17	Control of nut drop in cashewnut in fruit based cropping system	1.0 ha	Cashew nut	8.2	6.4	28.1	2	2	3	6	13
Nayagarh	Production and management	Indian Major carp	Kharif 2016-17	Demonstration of production of stunted fingerlings/ yearlings	0.5 ha	Indian Major carp	27.68	22.65	22.0	2	-	2	1	5
Nayagarh	Production and management	Indian Major carp	Kharif 2016-17	Demonstration of fry production in nursery pond	0.2 ha	Indian Major carp	16.36 lakh/ ha	8.95 lakh/ha	82.7	-	-	5	-	5
Nayagarh	Production and management	Indian Major carp	Kharif, 2016-17	Demonstration of low cost locally available feed in pisciculture	2.0 ha	Indian Major carp	30.2	22.1	36.65	-	-	5	-	5
Nayagarh	Integrated fish farming	Khaki Campbell/white pekin	Rabi 2016-17	Demonstration of integration of duck in pisciculture	3 units	Khaki campbell /white pekin,	32.07	25.1	27.77	-	-	3	0	3
Nayagarh	Farm mechanization	Sugarcane	Rabi,2016-17	Demonstration on Sugarcane Stripper	13 units	- Sugarcane Stripper				3	1	5	4	13
Nayagarh	Post harvest management	Sugarcane	Rabi,2016-17	Demonstration on preparation of quality sugarcane Gur.	13 units	-Value Addition	50	30	66.7	3	-	2	8	13
Nayagarh	Farm mechanization	Groundnut	Rabi,2016-17	Popularization of bullock drawn groundnut digger.	2.0 Ha	groundnut digger -	50MD/ha	20MD/ ha	1.5	2	1	4	6	13
Nayagarh	AGF	Bamboo, Teak	Kharif 2016-17	Community plantation	1.0 ha	Teak, mangium		Result awaited		**2**	**2**	**3**	**6**	**13**

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 on IPM for BPH mgt. in rice	Rice	BPH population/hill	15.5	4.4	34565	37820	60489	72615	25924	34795	1.75	1.92
Nayagarh	Demonstration on IPM for borer management in maize	Maize	Dead heart (%)	16.9	5.6	32972	35768	57373	69033	24401	33265	1.74	1,93
Nayagarh	Performance of IDM for seed and seedling blight in green gram in rice-greengram cropping system	Greengram	Seedling blight (%)	21.7	7.8	17680	19181	29880	36060	12200	16879	1.69	1.88
Nayagarh	Demonstration on Hybrid Napier fodder crop	Hybrid Napier, CO – 4		**continuing**									
Nayagarh	Demonstration of low cost poly-tunnel for seedling raising	**Tomato**	Germination (%)	24	65	1196 /3 bed	1640 /3bed	1794	4860	604	3220	1.5	2.9
Nayagarh	Demonstration on HYV of marigold, Ceracola	Marigold	Flowers / plant (no)	64	82	107330	127470	198240	318680	90910	191210	1.8	2.5
Nayagarh	Performance of HYV of Brinjal, Arka neelanchala shyama	Brinjal	Average fruit weight(g)	132.6	92.6	84800	80200	182210	153160	97410	65960	2.1	1.8

Nayagarh	Control of nut drop in cashewnut in fruit based cropping system	Cashewnut	Average nut weight (g)	5.0	4.2	250/tree	210/tree	740/tree	510/tree	490	370	3.0	2.7
Nayagarh	Demonstration of production of stunted fingerlings/ yearlings	Indian Major carp	Survivability(%), plankton conc. (ml/50 lit. water)	17.9, 1.8	32.7, 2.4	82500	106000	143200	261760	60700	155760	1.73	2.47
Nayagarh	Demonstration of fry production in nursery pond	Indian Major carp	Survivability(%), plankton conc. (ml/50 lit. water)	24.1, 1.7	55.34, 2.5	100000	103000	216900	276800	116000	173800	2.17	2.68
Nayagarh	Demonstration of low cost locally available feed in pisciculture	Indian Major carp	FCR	3.66	2.54	96500	148000	194555	286900	98000	138900	2.01	1.94
Nayagarh	Demonstration of integration of duck in pisciculture	Khaki Campbell	Plankton conc. (ml/50 lit. water)	1.9	2.3	120300	134200	251000	320700	130700	176500	2.08	2.39
Nayagarh	Community plantation	Teak	AVG ht 2 mt Girth 8 Cm Diameter 4cm	Result awaited									
Nayagarh	Demonstration on Sugarcane Stripper	Enterprise	Labour efficiency (MDS/ha)	45	25	12250	11250	65743	78543	**53493**	**67293**	**3.3**	**3.9**
Nayagarh	Demonstration on preparation of quality sugarcane Gur.	Enterprise	Yield(kg)	Continuing									
Nayagarh	Popularization of bullock drawn groundnut digger.	Groundnut	Labour efficiency (MDS/ha)	50	20	61200	56700	135000	135000	73800	78300	2.20	2.38

3.4 Information about Home Science FLDs - (For All Thematic Area)

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 on use of Pro supper bag for storage of rice	Continuing											

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/Entreprizes	Farming Situation	Proposed area (ha)	No. of Beneficiaries
Nayagarh	2016-17	Rabi	Value addition	Mushroom sold in distresh sell	Demonstration on value addition of oyster mushroom (S.caju)	Mushroom	S.caju	Homestead	5 units	5
Nayagarh	2016-17	Rabi	Drudgery reduction		Demonstration on use of hopper type paddy winnower to reduce drudgery of farmwomen	Paddy	Paddy	Homestead	3 units	5
Nayagarh	2016-17	Kharif,	Pest management		Demonstration on use of Pro supper bag for storage of rice	Rice	Rice	Homestead	13 units	5
Nayagarh	2016-17	Rabi	Drudgery reduction		Demonstration on sunflower threshing bench	Sunflower	Sunflower		5 units	2

3.5 (A) Economic Performance Home Science FLD: (For Drudgery Reduction)

KVK name	Technology to be Demonstrated	Performance Indicator / Parameter																					
		Output kg/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	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Nayagarh	Demonstration of use of manually operated hopper type paddy winnower to reduce drudgery of farmwomen	34.5	72.6	9.19	9.0	114	127		2.06		110												
Nayagarh	Demonstration on on use of sunflower thresher by farm women	1.7	5.12	393.7	106.7	125	112	-	72.49	-	220												

3.5 (B) Economic Performance Home Science FLD: (For Income Generation)

KVK name	OFT Title	Performance Indicator / Parameter											
		Production per unit		Cost of input		Incremental income		Yield(Kg/ha)		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		

3.5 (C) Economic Performance Home Science FLD: (For value addition)

KVK name	OFT Title	Performance Indicator / Parameter													
		Composition of product		Input used		outcome (Kg)		Cost of input		Incremental income		Net Return		Saving in Rs	BC ratio
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2		
Nayagarh	Demonstration on value addition of oyster mushroom (P.Sejarcaju)	6kg mushroom (P.Sagarcaju)	4kg pickle	6kg raw mushroom	Spices preservatives & 6 kg mushroom	6kg raw mushroom	4kg pickle	240	528	360	1000	120	472	472	1.5 1.8

3.5 (D) Economic Performance Home Science FLD: (For Nutritional security)

KVK name	OFT Title	Performance Indicator / Parameter				Nutrient Intake (Unit)								Anthropometric measurements					
		Name of vegetable/Fruit/Product		Per capita Consumption gm/ day		Energy (kcal)		Protein (gm)		Iron (mg)		Calcium (mg)		Increase in Weight (Kg)		Increase in Height (cm)		Increase in BMI (%)	
		T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	T1	T2

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	1	50	-
Nayagarh		Farmers Training	2	50	
Nayagarh		Media coverage	1	-	-
Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	Maize	Field days	1	50	-
Nayagarh		Farmers Training	1	25	-

Nayagarh		Media coverage	1	--	-
Nayagarh		Training for extension functionaries			
Nayagarh	Marigold	Field days	1	50	-
Nayagarh		Farmers Training	1	25	-
Nayagarh		Media coverage	1	-	-
Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	Green gram	Field days	01	50	-
Nayagarh		Farmers Training	01	25	-
Nayagarh		Media coverage	-	-	-
Nayagarh	Ground nut	Training for extension functionaries	-	-	-
Nayagarh		Farmers Training	01	25	-
Nayagarh		Media coverage	-	-	-
Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	IMC	Field days	1	50	-
Nayagarh		Farmers Training	4	100	-
Nayagarh		Media coverage	4	-	-
		Training for extension functionaries	1	20	-
Nayagarh	IMC	Field days	1	50	-
Nayagarh		Farmers Training	1	25	-
Nayagarh		Media coverage	1	-	-

Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	Cassava	Field days	1	50	-
Nayagarh		Farmers Training	2	50	-
Nayagarh		Media coverage	-	-	-
Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	Paddy straw mushroom	Field days	1	50	-
Nayagarh		Farmers Training	2	50	-
Nayagarh		Media coverage	1	-	-
Nayagarh		Training for extension functionaries	-	-	-
Nayagarh	Mustard	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**	**Maize**	**Nilesh**	**Institute**	**10**	**1ha**

4. Feedback System

Feedback from KVK to Research System

Name of KVK	Feedback
Nayagarh	• 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.

4.1. Feedback from KVK to Research System.

Name of KVK	Feedback basic of OFT on Technology Tested
Nayagarh	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 Low cost feed for pangasius cultivation Low cost small implements for drudgery reduction 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. Hopper type winnower is easy and safe to use than fan type winnower. TNAU trap is handy and effective for rice weevil control. Tomato variety Chiranjibi is more preferred than Swarna sampada for value addition

4.2. 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	10.04.2016 Singhapada	25
Nayagarh	F/FW	Group discussion	14.05.2016 Gadiasahi, Nua Gadiasahi	25
Nayagarh	F/FW	Group discussion	22.05.2016 .Fategarh	25
Nayagarh	F/FW	Group discussion	18.06.2016 Aonlamada	25
Nayagarh	F/FW	Group discussion, field visit, survey	08.07.2016 Darpanarayanpur	20
Nayagarh	F/FW	Group discussion, field visit, survey	12.08.16 Anlamada, Gopalipada	25
Nayagarh	RY	Group discussion	17.09.16 KVK campus	20
Nayagarh	RY	Group discussion, field visit	26.09.16 Janisahi, Dalaksahi, Digiri	25
Nayagarh	F/FW	Group discussion, field visit	14.10.16 Nuasgaon, lingiribari,Lunisara	22

Nayagarh	F/FW	Group discussion	11.11.16 Giridipalli, Bhanrapalli	25
Nayagarh	F/FW	Group discussion, field visit, local resources available	20.11.16 Fategarh,Singapada	25
Nayagarh	RY	Group discussion	05.12.2016 KVK Campus	25
Nayagarh	F/FW	Group discussion, field visit	15.12.16 Mardarajpur,anlamada,ladukesharpur	18
Nayagarh	F/FW	Group discussion, field visit	06.01.2017 Anlamada, Jogiapalli, Gunthuni	21
Nayagarh	F/FW	Group discussion, field visit	05.02.2017 Balugaon,	25
Nayagarh	RY	Group discussion with SHG members	14.03.2017 KVK campus	15
Nayagarh	IS	Group discussion NGO workers, Krushak club members & krusaksathi	06.03.2017 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	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	**Target for No. of participants**	**Participants**							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	**2**	**3**	**4**	**5**	**7**	**8**		**9**	**10**	**11**	**12**	**13**	**14**		
Nayagarh	FW	OFC	CRP	Bio fertilizer application in rice	1	1	25	10	0	6	0	0	0	9	0
Nayagarh	FW	ONC	PLP	Integrated measures for insect pest and diseases in rice	1	2	25	11	0	6	0	0	0	8	0
Nayagarh	FW	ONC	PLP	Integrated disease mgt. in vegetable nursery	1	1	25	5	0	7	0	0	0	13	0
Nayagarh	FW	ONC	PLP	IPDM in Pulses	1	1	25	9	0	7	0	0	0	9	0
Nayagarh	FW	ONC	PLP	IPM for major sucking pests in oilseed crops	1	1	25	9	0	4	0	0	0	12	0
Nayagarh	FW	OFC	PLP	IPM for borer management in maize	1	1	25	3	0	5	0	6	0	11	0
Nayagarh	FW	OFC	PLP	Biological control of sugarcane borers	1	1	25	10	0	5	0	0	0	10	0
Nayagarh	FW	OFC	PLP	IPM for major insects in cole crops	1	1	25	7	0	4	1	0	0	13	0
Nayagarh	IS	ONC	PLP	Modern pest control methods in managing insect pests of crops	1	1	25	12	2	5	0	0	0	6	0
Nayagarh	FW	OFC	HOF	Planting techniques in mango	1	1	25	15	0	5	3	2	0	0	
Nayagarh	FW	OFC	HOF	Growth regulator application in mango	1	1	25	5	0	3	0	2	0	11	

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	**Target for No. of participants**	**Participants**							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	**2**	**3**	**4**	**5**	**7**	**8**		**9**	**10**	**11**	**12**	**13**	**14**		
Nayagarh	FW	ONC	HOO	Production technology of kharif marigold	1	1	25	5	0	3	0	2	0	11	4
Nayagarh	IS	ONC	HOF	Rejuvenation of senile mango orchards	1	2	25	5	0	3	0	2	0	12	3
Nayagarh	FW	OFC	HOV	Cultural management of brinjal crops	1	1	25	12	3	5	0	3	2	0	0
Nayagarh	FW	ONC	HOF	Management of cashewnut orchards	1	1	25	5	5	2	2	5	5	1	4
Nayagarh	FW	ONC	HOF	Inter cropping in orchards	1	1	25	12	3	5	0	3	2	0	0
Nayagarh	FW	OFC	FIS	Pisciculture in community pond	1	1	25	0	0	0	17	0	0	5	3
Nayagarh	FW	OFC	FIS	Nursery pond management	1	1	25	0	0	0	0	5	0	20	0
Nayagarh	IS	ONC	FIS	Breeding techniques in IMC	1	2	25	2	0	1	0	0	0	19	3
Nayagarh	FW	ONC	FIS	Stunted fingerlings/ yearling production	1	2	25	2	0	1	6	3	0	13	0
Nayagarh	FW	ONC	FIS	Feeding and water quality management in fish pond	1	2	25	2	0	0	5	0	0	12	6
Nayagarh	FW	OFC	FIS	Composite fish culture	1	1	25	4	1	0	0	0	0	10	10
Nayagarh	FW	OFC	FIS	Duck integration in fish pond	1	1	25	2	0	3	0	0	0	18	2
Nayagarh	FW	OFC	LPM	Azolla production and its use as feed	1	1	25	1	0	1	0	0	1	19	3
Nayagarh	FW	OFC	LPM	Feeding and disease management of goatery farming	1	1	25	3	1	1	0	0	0	20	0
Nayagarh	FW	OFC	LPM	housing and vaccination for goatery and sheepery	1	1	25	2	0	1	1	0	0	16	5
Nayagarh	FW	ONC	AEG	Use of different farm impliments in farming system..	1	2	25	0	5	0	10	0	5	0	5

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	**Target for No. of participants**	**Participants**							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	**2**	**3**	**4**	**5**	**7**	**8**		**9**	**10**	**11**	**12**	**13**	**14**		
Nayagarh	FW	ONC	AEG	Use of plastics in vegetable cultivation	1	1	25	0	5	0	10	0	5	0	5
Nayagarh	FW	OFC	AEG	Use of self propelled rice transplanter.	1	1	25	2	5	0	0	0	3	9	6
Nayagarh	FW	OFC	AEG	Use of Zero Till Drill for line sowing of Green gram.	1	1	25	2	5	0	0	0	4	8	6
Nayagarh	FW	OFC	AEG	Preparation of quality sugarcane Gur.	1	1	25	5	0	1	0	0	0	11	8
Nayagarh	IS	ONC	AEG	Mechanization in rice and pulses cultivation.	1	1	25	6	0	1	0	0	0	10	8
Nayagarh	FW	OFC	WOE	Cultivation of paddy straw mushroom (V. volvacea)	1	1	25	3	0	2	0	0	0	20	0
Nayagarh	FW	ONC	WOE	Preparation of different dehydrated products from jackfruit(tender)	1	2	25	3	0	2	0	0	0	20	0
Nayagarh	FW	OFC	WOE	Store grain pest management in rice.	1	1	25	2	1	1	0	0	0	18	3
Nayagarh	FW	OFC	WOE	Use of small tools for drudgery reduction of farm women.	1	1	25	0	3	0	2	0	0	0	20
Nayagarh	FW	OFC	WOE	Cultivation of oyster mushroom	1	1	25	3	0	5	0	0	0	17	0
Nayagarh	FW	ONC	WOE	Preparation of	1	2	25	2	0	0	0	5	0	10	8

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	**Target for No. of participants**	**Participants**							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	**2**	**3**	**4**	**5**	**7**	**8**		**9**	**10**	**11**	**12**	**13**	**14**		
				different value added products from mushroom.											
Nayagarh	FW	OFC	WOE	Preparation of different Value added products from colocasia	1	1	25	0	5	0	10	0	5	0	5
Nayagarh	IS	ONC	WOE	Entrepreneurship development .	1	1	-	-	-	-	-	-	-	-	-
Nayagarh	FW	ONC	CBD	Weed Mgt. in rice	1	1	25	0	0	5	0	0	0	20	0
Nayagarh	FW	OFC	CBD	Scientific management of Green gram cultivation technology	1	1	25	3	0	5	0	0	0	17	0
Nayagarh	IS	ONC	CBD	Management of Training Programme	1	1	25	4	0	3	0	0	0	18	0
Nayagarh	FW	OFC	CBD	Scientific management of Sesame cultivation technology	1	1	25	0	0	4	2	2	1	12	4
Nayagarh	FW	ONC	CBD	Scientific management of Mustard cultivation technology	1	2	25	3	0	5	0	0	0	17	0
Nayagarh	FW	OFC	CBD	Co-operative and contract farming	1	1	25	3	0	5	0	0	0	17	0
Nayagarh	FW	OFC	CBD	Group Management	1	1	25	4	0	3	0	0	0	18	0
Nayagarh	FW	ONC	AGF	Natural Resources Management	1	1	25	5	6	1	2	2	2	5	3
Nayagarh	FW	ONC	AGF	Medicinal plants ,their uses and cultivation	1	1	25	2	2	3	3	2	2	6	5
Nayagarh	FW	ONC	AGF	Importance of Rain Water harvesting	1	1	25	2	5	3	4	2	2	4	3
Nayagarh	FW	ONC	AGF	Environmental Pollution	1	1	25	2	5	3	4	2	2	4	3

Name of KVK	Cate-gory	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	**Target for No. of participants**	**Participants**							
								General		SC		ST		Others	
								M	F	M	F	M	F	M	F
1	**2**	**3**	**4**	**5**	**7**	**8**		**9**	**10**	**11**	**12**	**13**	**14**		
Nayagarh	IS	ONC	AGF	Agro forestry models	1	1	25	5	6	1	2	2	2	5	3

Table 5.3. Details of Vocational training programmes for Rural Youth to be 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	Bee Keeping	**Enterprise**	Income Generation	4	2	0	2	0	16	0

Table 5.4 Details of training programme conducted for livelihood security in rural areas by the KVKs

Name of KVK	**Training title**	**Self employed after training**			**Number of persons employed else where**
		Type of units	**Number of units**	**Number of persons employed**	
Nayagarh	Bee Keeping	Apiary	38	82	19
Nayagarh	Mushroom Production	Mushroom units	48	57	20
Nayagarh	Backyard Poultry	Homestead	7	14	17

Table 5.5. Sponsored Training Programmes

Name of KVK	**Title**	**Thematic area (as given in abbreviation table)**	**Sub-theme (as per column no 5 of Table T1)**	**Client (FW/ RY/ IS)**	**Dura-tion (days)**	**No. of courses**	**No. of Participants**								**Sponsoring Agency**	**Fund received for training (Rs.)**
							Gen		**Others**		**SC**		**ST**			
							M	**F**	**M**	**F**	**M**	**F**	**M**	**F**		
Nayagarh	Mushroom Production	Income generation		RY	4	3	12	08	19	25	5	4	1	1	ICAR under ARYA, New Delhi	1,38,750/-
Nayagarh	Backyard Poultry	Income generation		RY	4	2	2	0	42	0	5	2	14	10	ICAR under ARYA, New Delhi	
Nayagarh	Stunted fingerling production	Prodn. & mgt.		RY	4	3	2	0	40	3	2	2	1	0	ICAR under ARYA, New Delhi	

Table 5.6 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)	Dura-tion (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	Biological control for sugarcane borers	25	40	74	897	1120	107640	134400	1. 10 ha 2. Out of 25 trainees, 20 trainees adopted the recommended bio control techniques. 3. (i) Knowledge – 85% 1(ii) Production – 21% (iii) Income – 26%
KVK, Nayagarh	IPM for borer management in maize	25	45	78	783	972	24401	33265	1. 15 ha. 2. Out of 25 trainees, 23 trainees adopted the recommended IPM practices in maize 3. (i) Knowledge – 73% (ii) Production – 24% (iii) Income – 24%
KVK, Nayagarh	IPDM in pulses	25	41	76	2.5	4.0	12200	16879	1. 25 ha 2. Out of 25 trainees, 24 trainees adopted the recommended practice of IPDM in pulses. 3. (i) Knowledge – 85% (ii) Production – 60% (iii) Income – 60%
KVK, Nayagarh	Integrated disease management in vegetable nursery	25	43	80	37.5	42.0	97750	117800	1. 40 ha 2. Out of 25 trainees, 15 trainees adopted the recommended practice 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			1. Area expanded 30 ha. 2. Farmers adopted 15. 3. (i) Knowledge – 65.11% (ii) Production – 30.24% (iii) Income – 30.21%

KVK, Nayagarh	Integrated measures for insect pest and diseases in rice	25	38	58	14.18	11.56	25924	34795	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 major insect pests in cole crops	25	46	77	263.46	180.13	47703	68231	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 attented 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

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			
	Field Day	21	0	480	220	282	68	32	11	0	0	0
	Kisan Mela	2	0	112	48	33	7	4	2	0	0	0
	Kisan Ghosthi	2	0	27	3	8	2	0	0	0	0	0
	Exhibition	4	0	120	27	36	17	0	0	0	0	0
	Film Show	60	0	802	298	314	86	0	0	0	0	0
	Method Demonstrations	2	0	25	7	5	3	0	0	0	0	0
	Farmers Seminar	2	0	31	8	9	2	0	0	0	0	0
	Workshop	6	0	0	0	0	0	0	0	0	0	0
	Group meetings	4	0	61	14	18	7	0	0	0	0	0
	Lectures delivered as resource persons	15	0	86	18	17	5	0	0	0	0	0
	Newspaper coverage	10	0	0	0	0		0	0	0	0	0
	Radio talks	8	0	0	0	0		0	0	0	0	0
	TV talks	8	0	0	0	0		0	0	0	0	0
	Popular Articles	8	0	0	0	0		0	0	0	0	0
	Extension Literature	5	0	0	0	0		0	0	0	0	0
	Farm Advisory Services	80	0	0	0	0		0	0	0	0	0
	Scientific visit to farmers field	170	0	0	0	0		0	0	0	0	0
	Farmers Visit to KVK	500	0	0	0	0		0	0	0	0	0
	Diagnostic Visits	96	0	125	18	29	8	0	0	0	0	0
	Exposure Visits	2	0	16	0	4	0	0	0	0	0	0
	Ex-trainees Sammelan	4	0	147	16	32	5	0	0	0	0	0
	Soil Health Camp	2	0	74	11	12	3	0	0	0	0	0
	Animal Health Camp	2	0	85	7	6	2	0	0	0	0	0
	Agri Mobile Clinic	0	0		0	0	0	0	0	0	0	0
	Soil Test Campaigns	2	0	80	12	8	0	0	0	0	0	0
	Farm Science Club conveners meet	1	0	14	0	6	0	0	0	0	0	0
	Self Help Group conveners meetings	4	0	0	80	0	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 printed	Number of copies distributed
Nayagarh	April-June	Quaterly	500	500
Nayagarh	July-Sept	Quaterly	500	500
Nayagarh	Oct- December	Quaterly	500	500
Nayagarh	January- March	Quaterly	500	500

7.2 Literature developed/published

KVK Name	Type	Title	Author's name	Number of copies
Nayagarh	Compendium	Stunted fingerling production	Dr. S. Sahu	65
Nayagarh	Leaflet	Backyard poultry	Dr. S. Sahu	85
Nayagarh	Leaflet	Scientific production technique green gram cultivation	Mr. T. Badjena	1000
Nayagarh	Leaflet	Scientific production technique Mustard cultivation	Mr. T. Badjena	1000
Nayagarh	Booklet	Major technological intervention of KVK	All Scientist	500
Nayagarh	Booklet	Women friendly equipment	All Scientist	500
Nayagarh	Booklet	Mushroom production	B.L.Rout	85

7.3 Details of Electronic Media Produced

KVK Name	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
Nayagarh	**DVD**	**Success Stories on ARYA**	**1**
Nayagarh	**CD**	**IPM for stem borer in paddy**	**1**

8. Production and supply of Technological products

8.1 SEED production

KVK Name	Major group/class	Crop	Variety	Type of produce (for Seed produced type here 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	Sugar crops	Sugarcane	CO-OR-04-152 (Raghunath) and CO-OR-03-151(Sabita)		275.5qtl	qtl	62000/-	23

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 tree species	Teak	Jan-Feb	-	-	Teak	Seedlings	500	2000	4000	-
Nayagarh	Forest tree species	Mangium	Jan-Feb	-	-	Mangium	Seedlings	250	500	1250	-
Nayagarh	Vegetable seedling	Tomato	Kharif & Rabi	-	-	Hybrids	Seedlings	18950	12250	18950	-
Nayagarh		Brinjal	Kharif & Rabi	-	-		Seedlings				-
Nayagarh		Onion	Rabi	-	-		Seedlings				-
Nayagarh		Cauliflower	Rabi	-	-		Seedlings				-
Nayagarh		Cabbage	Rabi	-	-		Seedlings				-
Nayagarh	Horticultural Plant	Drumstick	Kharif	-	-	PKM 2	Saplings	82		820	-
Nayagarh		Papaya	Kharif	-	-	Ranchi dwarf, Red lady	Saplings	52		520	-
Nayagarh		Mango	Kharif	-	-	Dasheri, Subarnrekha, Mallika	Saplings	833	8330	24990	-
Nayagarh	Vermicompost		Round the year	-	-	E.foetida		3.06qt	3000	25755	-
Nayagarh	Ornamental flowers	Marigold	Kharif	-	-	Ceracola	Seedlings	9070	1300	9070	-
Nayagarh	Mushroom cultivation	Mushroom	March-Feb	-		Oyster mashroom	-	27kg 500		- 1375	

Nayagarh	Mushroom spawn	Mushroom	Round the year	-			Mushroom spawn	3776		56640	-
Nayagarh	Apiary	Honeybee	Rabi	-		Apis cerana indica	Honey	25kg	3000	7500	

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

KVK Name	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
Nayagarh	**BIOAGENTS**				
Nayagarh	**BIOFERTILIZERS (Vermi-compost)**	2MT	10000	16000	Increases WHC, Porosity and organic carbon content of the soil
Nayagarh	**BIO PESTICIDES (Vermiwash)**				

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	21 days chicks	1180	24000	59000	Fast growing/ High egg production, backyard poultry
Nayagarh	**Fisheries**	Fry fingerlings, Ornamental fish	Fish seed, Live bearer	86250	5200	17100	
Nayagarh	**Others (Specify)**						

9. Activities of Soil and Water Testing Laboratory

9.1 Details of soil 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	Soil report distributed to the farmers (Nos)
Nayagarh	Mridaparikhyaka	`2016		125	625	100	90,000	625

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/RY/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	September	2016-17	Stunted fingerlings	8	50	6	-	50
Nayagarh	January	2016-17	Backyard poultry	12	75	9	-	75
Nayagarh	March	2016-17	Mushroom Production	12	75	9	-	75

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	**2.12.16**	**22**	➢ Assessment of new strains of paddy straw mushrooms ➢ Training on value addition from fruits and vegetables, quality planting material production in fruit crops ➢ Value addition from jackfruit ➢ Effect of PMS on soil ➢ Demonstration on sugarcane var. Nilachakra ➢ Programme on seasonal & perennial fodder production ➢ Demonstration on yearling production practices in aquaculture system ➢ Training on establishment of nursery pond ➢ Study on growth parameters and disease against the backyard poultry (Vanaraja) ➢ Programme on IPM on fruit & shoot borer in brinjal ➢ Convergence of agricultural programmes of KVK and line department should be made for the benefit of farming community ➢ KVK should Publish Monthly Krushi Barta

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	70	7291	70	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	**ATMA**	**State**	**20000**	**Farmers scientist interaction**	**Acid soil management**	
Nayagarh	ATMA	State	5000	Preparation of leaflet	IPDM in brinjal scientific production technique on green gram, mustard cultivation yearling production acid soil	

					management	
Nayagarh	ATMA	State	20000	Exhibition	Display of new technology	

16. Status of Revolving Funds (Rs.)

KVK Name	Account No.	Opening balance (Rs.)	Closing balance (Rs.)	Current status (Rs.)
Nayagarh	33991533548	3,35.493/-	4,59,462/-	4,59,462/-

17. Awards & Recognitions

KVK Name	Name of award /awardee	Type of award (Ind./Group/Inst./Farmer)	Awarding Organizations	Amount received
Nayagarh		**Farmer**	OUAT,BBSR KVK, Nayagarh	

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.)

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 trolly	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	Biridi- Ph.No 9853532468

			sowing in greengram	
6.	Nayagarh	Mr.Suryamani Nayak	Direct seeding od sugarcane buds in main field instead of using portray	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

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

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	Prof. S.Pasupalak,	**3.01.17**		Hon'ble VC. OUAT, BBSR		
Nayagarh	Dr. P.N.Jagdev, Dean	**12.01.17**		**Dean, DEE, OUAT, BBSR**		
Nayagarh	Mr. Arindam Dakua				**Hon,ble Collector and DM, Nayagarh**	

25. Status of KVK Website:

Sr. No.	Name of KVK	Date of start of website	No. of updates since inception	No. of visitors
1	Nayagarh	January 2017		

26. E-CONNECTIVITY

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

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

29. Attended HRD Programmes organized by ZPD

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
Nayagarh	1		1	
	Total	Scientist Extension	1	

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

30. Attended HRD Programmes organized by DES

Name of KVK	Name of Staff	Post held	Programme attended (Nos)	Remarks
	1			

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

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

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

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

Name of KVK	Alert observed	Particulars	Reported to organization

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	5	250	IPM, IDM, INM, IWM, mushroom cultivation, vermin-composting, varietal diversification in rice & vegetables
Nayagarh	Soil health Awareness campaign	2	100	-
Nayagarh	Road show	1	-	Latest Scientific technologies on various crop & livestock's
Nayagarh	Diagnostic Practical's			
Nayagarh	Distribution of Literature (No.)	1	40	Scientific cultivation of rice, sugarcane, pulses, apiculture, vermin-composting
Nayagarh	Distribution of Seed (q)			
Nayagarh	Distribution of Planting materials (No.) 150 nos (*A mangium*, teak & papaya saplings)	1	50	*A mangium*, teak & papaya
Nayagarh	Bio Product distribution (Kg)			
Nayagarh	Bio Fertilizers (q)	-	-	-

Nayagarh	Distribution of fingerlings (No)			
Nayagarh	Animal health camp	1	50	All kinds of livestock
Nayagarh	Total number of farmers visited the technology week	15	710	

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

Verms Produced

Name of KVK	Verms 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)

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

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

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

Success story -1

POND BASED INTEGRATED FARMING SYSTEM

DETAILS

NAME	**SURESH KUMAR SAHOO**
FATHERS NAME	LATE RAHATA SAHOO
VILL	DHUSUMA
GP	ANGISINGI
BLOCK	ODAGAON
DIST	NAYAGARH
AGE	43
QUALIFICATION	GRADUATE
FAMILY MEMBERS	4
LAND AREA	3.8AC

Mr. Suresh Kumar Sahoo S/O Late RahatSahoo of Dhusumavillage of Odagaon block of Nayagarh district of Odisha is a graduate of age about 43 years. He was having a land of 1.52Ha which was situated around 2km away from his house at village. The land was situated near to canal where irrigation was available during the Kharif season. He was having family members of four including himself, mother, wife and son. After the death of his father he has planned for the development of the land for the agricultural purpose. During in the year 2007-08 he initially started banana plantation around 0.8Ha land after developing the land by cutting the bushes and land leveling. After plantation of banana he has gone for around 0.12Ha land for vegetable for home consumption. He faced marketing problem during harvesting of banana and faced loss due to lesser price of the banana in the local market. In the next year after removing the banana plant again planted tissue culture banana “Bantal” along with vegetables for

home consumption. Due to natural calamity of heavy wind during the harvesting stage again same problem arises but in that year it was not loss with less profit.

In the year 2009-10 he came across KVK, Nayagarh which is situated around 28km from his village. One day he came to KVK and discussed with all the scientist of the KVK and the entire scientist decided to visit his farm. After visit to his farm a detain plan was prepared for the development of his farm considering all the resources available and his interest along with the farming situation.

YEAR	**ACTIVITIES**	**SIUATION**	
2007-08	BANANA, VEGETABLE	LOSS	
2008-09	BANANA, VEGETABLE	NO LOSS NO PROFIT	
2009-10	POND CONSTRUCTION, VEGETABLES	Rs. 30,000 profit	KVK INTERVENTION
2010-11	FISHERIES, DUCKERY, VEGETABLES	Rs. 70,000 profit	KVK INTERVENTION
2011-12	FISHERIES, FISH SEED PRODUCTION, MOONG, INTERCROPPING, VEGETABLES	Rs. 1,86,115 profit	KVK INTERVENTION
2012-13	FISHERIES, YEARLING, MOONG, INTERCROPPING, VEGETABLES	Rs 2,50,000	KVK INTERVENTION
2013-14	FISHERIES, YEARLING, , MANGO	Rs 2,85,000	KVK INTERVENTION

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 is 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

Field day organized at Biruda village

Making of garlands from loose flowers

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) –

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<tr><td>Spraying with Azoxystrobin in T3</td><td>T2 and T3 plots at milking stage</td></tr>
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KVK, NAYAGARH
AREA- 0.7 HA
SEASON: RABI, 2016-17
T2


OFT ONASSESSMENT OF
YIELD POTENTIAL OF DIFFERENTSTRAINS OF
PADDY STRAW MUSHROOM (V.VOLVACEA)
YEAR
F 2016
KRISHI
RA, NAYAGARH


KVK, NAYAGARH


OFT ONASSESSMENT OF
AGEMENT
16-17
ARH