# REVISED PROFORMA FOR ANNUAL REPORT (1-10-2006 to 30-09-2007)

## 1. GENERAL INFORMATION ABOUT THE KVK

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

KVK	Postal Address with	Telep	hone		E-mail
	pin code	STD	Office	FAX	
Jagatsinghpur	At-Nimakana, Po-	-	-	-	KVK,
	Manijanga, via-				Jagatsinghpur
	Tirtol, Dist-				@
	Jagatsinghpur, Pin-				yahoo.com
	754160. Orissa				

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

Host Institute	Postal Address with	Telep	hone		E-mail
name	pin code	STD	Office	Fax	
OUAT	OUAT,Bhubaneswar	2392677 –	(0674)	(0674)	-
Bhubaneswar	Pin-751003 Orissa	A(PBX-	2392677	2391780	
Orissa		206-A)			

1.3. Name of the Programme Coordinator with phone & mobile No.

1.0. I tuille of the I	110. I tame of the I rogitalisme coordinator with phone & mobile 110					
Name		Telephone / Contact				
	Residence	Mobile	E-mail			
Shiba Prasad	-	9937162016	KVK Jagatsinghpur			
Sangramsingh			@ yahoo.com			

1.4. Year of sanction: 2005-06

# 1.5. Staff Position (as on 30th September 2007)

Sl No	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent / Temporary	Catego ry (SC/ST /OBC/ Others)
1	Programme Coordinator	S.P.Sangramsingh	I/C Programme Coordinator	Agril.Ext	10000-325- 15200 Basic 10975	1.5.2005	Temporary	Others
2	Subject Matter Specialist	Nityananda Das	SMS	Fishery Science	8000-275- 13500 Basic 8550	2.5.2005	Temporary	Others

4	Subject Matter Specialist	Arabinda Dhal	SMS	Plant Protection	8000-275- 13500 Basic 8550	9.1.06	Temporary	Others
3	Subject Matter Specialist	Lilymoony Tripathy	SMS	Horticulture	8000-275- 13500 Basic 8275	30.12.05	Temporary	Others
5	Subject Matter Specialist	Dr. Suchismita Tripathy	SMS	Agronomy	8000-275- 13500 Basic 8275	16.1.06	Temporary	Others
6	Subject Matter Specialist	Dr. Puspita Das	Prog.Asst (Against the post of SMS)	Home.Sc	5900-200-9700 Basic 8500	31.12.05	Temporary	Others
7	Subject Matter Specialist	Vacant			-		Temporary	Others
8	Programme Assistant	Siba Prasad Mishra	Program me Assistant	Agril	5500-175-9000 Basic 5850	1.7.05	Temporary	Others
9	Farm Manager	Dr. Narayan Panda	Farm Manager	Soil science	5500-175-9000 Basic 5675	30.1.06	Temporary	Others
10	Computer Programmer	Md. Sadakat Ali	Programme Assistant	Computer	5500-175-9000 Basic 5675	24.6.06	Temporary	Others
11	Accountant / Superintende nt	Dinabandhu Das	SO	Accounta nt / Office Superinte nd	5900-200-9700 Basic 7100	1.6.06	Temporary	OBC
12	Stenographer	Kishor Chandra Das (Ex-Stenographer)	Steno grapher	-	4000-100-6000 Basic-4000	9.10.06 to 2.7.07	Temporary	Others
13	Stenographer	Babuli sahoo	Steno grapher	-	4000-100-6000 Basic-4000	2.7.07	Temporary	Others
13	Driver	Manoj Kumar sahoo	Driver / Mechanic	-	3050-75-3950- 80-4590 Basic 3050	30.7.07	Temporary	Others
14	Driver	Vacant	-	-	-	-	-	-
15	Supporting staff	Vacant	-	-	-	-	-	-
16	Supporting staff	Vacant	-	-	-	-	-	-

1.6. Total land with KVK (in ha): 13.22

Sl	Item	Area (ha)
No.		
1	Under Buildings	1.19
2	Under Demonstration Units	-
3	Under Crops	9.53
4	Orchard / Agro-forestry	-
5	Others (Instructional farm, demonstration unit,	2.5
	threshing floor cum shed house, internal road etc)	

# 1.7. Infrastructual Development:

A) Buildings

Slno	Name of	Source			G4			
	building	of			Stag			
		funding		npletion			Incomplete	
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (sq.m)	Status of construct ion
1	Administrative Building	ICAR	Under construction	(eq.m)		2.12.06	(sq.m)	
2	Farmers Hostel	ICAR	Under construction					
3	Staff Quarters (6)	Under 11	<sup>th</sup> plan propos	al				
4	Demonstration Units (2)	Under 11	<sup>th</sup> plan propos	al				
5	Fencing	ICAR	15.10.07			Dec, 2006		
6	Rain water harvesting system	-	-	-	-	-	-	
7	Threshing floor	ICAR	16.10.07					
8	Farm godown	Under 11	<sup>th</sup> Plan Propos	sal				

#### **B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs)	Total kms.Run	Present status
Tractor	2005-06	488364*	-	Good
Bolero*	2005-06		23221	Good

<sup>\*</sup> Expenditure on tractor only. Bolero purchased by DPP OUAT & handed over to KVK Jagatsinghpur.

# C) Equipments & AV aids

Name of equipment	Year of purchase	Cost (Rs)	Present status
Furniture: (Table,	2006-07	149927	Good
almirah, library book			
shelf), computer			
accessory & LCD			
projector			
Audio visual aid: TV,	2006-07	24400	Good
VCD, Digital camera			

# 1.8. A) Details SAC meeting \* conducted in the year

Slno	Date	Number of	Salient Recommendations	Action
		participants		taken
1	19.9.2007	36	1. HYV of pulses are to be taken with balance	
			fertilizer doses on demonstration	
			2. Next to ground nut, emphasis should also be	
			given to sunflower through FLD (oil seed)	
			programmes	
			3. Demonstration on use of agriculture	
			implements in the firm	
			4. Training on IPM & INM of horticultural crop	
			should be conducted to refresh inservice	
			personnels	
			5. Mushroom preservation as method	
			demonstration & marketing	
			6. Soil testing laboratory to be installed in KVK premises	
			7. Azolla as supplement in cattle feed	
			8. Awareness campaign Programme should be	
			made in IDM in Betelvine	
			9. Curing techniques of Betelvine as training	
			Programme	
			10. Use of theromone traps in vegetables	
			11. More emphasis on vocational training &	
			Pisciculture for youth & SHGs	
			12. Follow of action & impact study should be	
			conducted properly (Date base)	

# **2. DETAILS OF DISTRICT (2006-07)**

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

SlNo	Farming system/enterprise
1	Paddy- Green gram / Black gram
2	Paddy – Fallow
3	Paddy – Vegetable
4	Paddy – Ground nut
5	Vegetable-vegetables

2.2 Description of Agro-climate Zone & major agro ecological situations (based on soil and topography)

Slno	Agro-climate Zone	Characteristics
1	East & south east coastal plain zone	Hot & humid climate, Latitude – 20- 21 <sup>0</sup> North
		Longitude – 84-87 <sup>0</sup> 3' East Surrounded by
		Kendrapada in North east Puri & bay of
		Bengal in South, Cuttack in west & bay of
		Bengal in East

Slno	Agro ecological situation	Characteristics
1	Coastal irrigated Alluvium	-Geographical area: 470000 hac
	(Found in Jagatsinghpur Biridi, Naugan,	-Soil type: sandy loam to clay loam
	Balikuda, Raghunathpur, Tirtol, Ersama,	-Rainfall: 1370 mm
	kujang block	-Cropping intensity: 198
		-Major crops: Rice, G.gram, vegetable,
		G.nut, jute, sesame
2	Rainfed Alluvium	-Geographical area: 375000 hac
	(Found in Jagatsinghpur Biridi, Naugan,	-Soil type: loamy sand to sandy clay loam
	Balikuda, Raghunathpur, Tirtol, Ersama,	-Rainfall : 1343 mm
	kujang block	-Cropping intensity: 185
		-Major crops: Rice, G.gram, vegetable,
		G.nut, jute, sesame
3	Coastal Alluvial saline	-Geographical area: 318000 hac
	(Found in Balikuda, Ersama, Kujang	-Soil type: sandy loam to clay
	block)	-Rainfall: 1379 mm
		-Cropping intensity: 105
		-Major crops: Rice, G.gram, vegetable
4	Coastal water logged	-Geographical area: 728000 hac
	(Found in Balikuda, Ersama, Kujang	-Soil type: loamy sand to sandy loam
	block)	-Rainfall: 1362 mm
		-Cropping intensity: 95
		-Major crops: Rice

# 2.3 Soil type/s

Slno	Soil type	Characteristics
1	Loam	<ul> <li>it is a mixture of sand, silt and clay particles which exhibits approximately equal properties of sand, silt and clay.</li> <li>It also exhibits light and heavy properties in about equal proportions</li> </ul>
2	Sandy Loam	<ul> <li>It is a mixture of sand, silt and clay, but the % of sand particles is high than silt and clay particles.</li> <li>Good for crop cultivation</li> <li>Good in water holding capacity &amp; Nutrient transformations</li> </ul>
3	Clay Loam	<ul> <li>It is a mixture of sand, silt and clay but the clay content is less in comparison to sand and silt particles.</li> <li>Less productive in comparism to sandy loam due high retentive capacity of water and nutrients by day particles which is less available to crop plants</li> </ul>

# 2.4 Areas, Production and productivity of major crops cultivated in the district

Slno	Crop	Area(ha)	<b>Production (Qtl)</b>	Productivity (Qtl/ha)
1	Paddy	97242	2686452	27.63
2	Green gram	26909	74269	2.76
3	Black gram	4363	12404	2.84
4	Ground nut	1361	15112	11.1
5	Potato	246	32275	131.2
6	Sugarcane	712	517389	726.67

## 2.5 Weather data

Month	Rainfall (mm)	Tem	perature º C	Relative
		Maximum	Minimum	Humidity (%)
January	3.3	NA	NA	NA
February	5.5	-	-	-
March	0.5	-	-	-
April	65	-	-	-
May	15.6	-	-	-
June	93.8	-	-	-
July	245	-	-	-
August	375	-	-	-
September	142.6	-	-	-
October	256.4	-	-	-
November	-	-	-	-
December	-	-	-	-
TOTAL	1203.4			

# 2.6 Production and productivity of livestock, poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle		82.84 TMT (milk)	0.0005 TMT
Crossbred	127281	-	-
Indigenous	200562	-	-
Buffalo	13144	-	-
Sheep	-	4119 qtl (Meat)	0.15 qtl
Crossbred	374	-	-
Indigenous	26790	-	-
Goats	142631	16097 qtls (Meat)	0.113 qtls
Pigs			
Crossbred	170	-	-
Indigenous	3177	-	-
Rabbits	395	-	-
Poultry		2393 qtl (Meat) 19.7	0.01 qtl (Meat) 0.0002
		million eggs	million eggs
Hens			
Desi	107092	-	-
Improved	121269	-	-
Ducks	98631	-	-
Turkey and others	70031	-	-
Category	Area	Production	Productivity
Fish	-	-	-
Marine	3000 sq km	34165.13 MT	11.39 MT
Inland	14405 hac	8421.40 MT	0.58 MT
Prawn	-	-	-
Scampi	12428 hac	109.73 MT	0.009 MT
Shrimp	791.8 hac	1572.887 MT	1.99 MT

# 2.6 Details of operational area / Villages (2006-07)

Sl No	Taluk	Nam e of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Tirtol	Tirtol	Nimakana	Rice, Pulse, Poultry, Dairy	<ul><li>Low yield in pulse</li><li>Low yield in rice</li><li>Low milk yield in diary</li></ul>	<ul> <li>Improved techniques in pulse cultivation</li> <li>IPM in rice</li> <li>Goatery, poultry rearing &amp; fish farming</li> </ul>
2	Tirtol	Tirtol	Sanimula	Paddy, green gram, fish farming	<ul><li>Low yield in paddy</li><li>(Attack of disease &amp; pest)</li><li>Low yield in pulse</li><li>Low yield in fish farming</li></ul>	<ul><li>Varietal substitution &amp;</li><li>IPM in rice</li><li>Improved package &amp;</li><li>practice for pulse</li></ul>

						- Pisciculture for women
3	Kujanga	Kujan	Teramanpur	Vegetable,	-Low yield in vegetables	-Introduction of suitable
		ga		rice,	-Low price value in paddy	HY varieties of vegetable
				Betelvine	-Low yield in Betelvine	popularization of scented
						rice
						-IDM in Betelvine
4	Tirtol	Tirtol	Kiranti	Rice, pulse,	-Low price value of paddy	-Value addition in rice
				Pisciculture	-Low yield of pulse	- Improved package &
					-Low yield in fish farming	practice of pulse
						- Composite fish farming
5	Biridi	Biridi	Maindipur	Groundnut	-Low yield in Groundnut	-Improved package &
				vegetable	- Low yield in vegetables	practice in Groundnut
				rice	-Low yield in rice	-Varietal substitution &
						disease pest management
						in vegetables
						- IPM in rice
						- Use of plastic culture in
						horticulture
6	Tirtol	Tirtol	Kaudiabari	Rice, pulse,	-Low yield in paddy	-Improved package &
				poultry,	-Low yield in pulse	practice for paddy &
				Dairy	-Less return in poultry &	pulse
					Dairy	-Entrepreneurship
						development through
						poultry, Dairy &
						Duckery spread of
						mushroom culture

# 2.7 Priority thrust areas

Slno	Thrust area
1	Management of soil salinity.
2	Use of biopesticide and biofertilizer.
3	Popularization of scented and long slender grain rice.
4	Introduction of suitable high yielding varieties of vegetables
5	Use of plastic in horticulture.
6	Popularization of floriculture.
7	Integrated disease management for Betelvine.
8	Pisciculture for women
9	Marketing strategy for sunflower growers
10	Spread of mushroom culture.
11	Agrobase micro enterprise development for SHG.
12	Entrepreneurship development in the field of honey bee rearing, poultry rearing, seed
	production, diary, goatory and fingerling production etc.

### 3.B. Abstract of interventions undertaken

Sl	Thrust	Crop/	Identified problem			Interventions			
No	area	Enterp rise	•	Title of OFT if any	Title of FLD if any	Title of training if any	Title of training for extension personnel if any	Extens ion activiti es	Supply of seeds,pl anting materia ls etc.
1	Yield enhance ment of cereals	Paddy	Low yield in corps	-Screening suitable variety of medium land paddy -Screening suitable variety of up land paddy - Selection of suitable scented rice variety	-High yielding rice in medium to low land situation - High yielding rice in medium land situation -Introduction of scented rice	1.Use of SRI methods of paddy cultivation 2. Use of gypsum in groundnut 3. Improved package & practice of direct seeded upland paddy 4. Package & practices of scented rice 5. Management practices of hybrid rice  6. Improve package &	1. Diversified crop planning in Jagatsinghpur dist 2. Integrated rice based farming system 3. Newly released varieties of crop, their introduction & management	-Field days -GD, ID - CD Show	Seed & fertilizer
		Maize Jute				7. Package & practices of maize cultivation  8. Rating techniques of jute			
2	Organic farming	Field crop	Low yield & soil quality deterioration due to use of chemical fertilizer			Vermicomposting     Vermiculture &     vermicompost     production technique	1. Organic farming		
3	Problem atic soil manage ment		Low yield			<ol> <li>Management of saline soil (2 Nos)</li> <li>Different problem soils &amp; their reclamation (2 Nos)</li> </ol>	Management technology of saline soil		

5	Weed control  Soil testing	Paddy	Low yield due to weed infestation  Unbalance fertiliser application		Integrated weed control in direct seeded kharif paddy	Integrated weed control in upland paddy  Techniques of soil sample collection (2Nos)	Field day & CD show	Supply of Butachl or
6	Resource conservat ion technique		Low yield	-	-	Water management in sugarcane		
7	Integrate d nutrient manage ment	Paddy	Low yield & nitrogen loss		N- management in lowland paddy	INM in lowland paddy	Field day GD	Nimin & urea
8	Reduce drudgery	Paddy	Labour is costly			Use of improved agricultural implements in paddy cultivation		
9	Enhance ment of fruit producti on	papaya	Low yield due to use of local variety		Introduction of high yield in papaya		Field day GD	Planting material
10	Use of plastic in horticult ural crops	Tomato	Low yield due to weed		Plastic LDPE mulching in tomato	HI-tech Horticulture and precision farming	GD.Int eractiv e Demon stration Field day	Mulch material
11	Introduc tion of suitable high yielding variety	Banana	Low yield due to local variety	Testing of performance of tissue culture banana	Tissue culture banana cultivation	Tissue culture banana cultivation	Ž	Planting material Fertiliser

12	Populari zation of medicin al plant cultivati on	Ghruta kumari	Non-utilization of wasteland. Ignored in cultivation,			1.Cultivation and marketing of Ghruta kumari 2. Establishment of medicinal nursery	Prospects of medicinal plant cultivation in the district		
13	Populari sation of floricult ure	Marigold	Less area under floriculture but demand is high		Introduction of marigold cultivation	1. Commercial cultivation of tuberose and marigold	Commercial floriculture		Planting material, fertiliser
14	IDM	Brinjal	Wilting in brinjal	Testing of different wilt resistant varieties of Brinjal		Selection of varieties for vegetable cultivation		Field days ,Group meetin g publica tion	
15	Entrepre	Tuberose	Unemployment of			Tuberose cultivation			
	neurship Develop ment	Mango	rural youth			Propagation of mango			
16	Manage ment of coconut orchard	Coconut	Low yield in coconut			care and maintenance of coconut nursery     Selection and production of quality planting material in coconut	Management in coconut orchard		
17	Yield enhancem ent in vegetables	Cole crops	Low yield in Cauliflower	Fertiliser management in cauliflower		<ol> <li>INM in cole crops</li> <li>Hi- tech cultivation of cabbage and cole crops</li> <li>Package and practices of off season vegetables</li> </ol>		-Field visit -ID -GD	
18	Increase in rice producti vity	Paddy	Disease and pest Problem		-IPM in Paddy -Pheromone trap use in	1. IPM in Kharif rice 2. Bio pesticides and their use 3. Techniques of seed or	IPM of summer paddy	GD Field day CD	Seed pesticid e traps

					rice	seeding root treatment 4. Neem based pesticides for pest control		show	
19	Enhancing vegetable growing and production	potato	Disease incidence		Tuber treatment in potato			Field day Group meetin g	Pesticid es
20	Reducing pest	Sugar cane	Borer Problem				IPM in sugar cane		
21	menance in cash crops	Betel vine	Leaf blight and stem rot		Leaf bilght and stem rot in betel vine	1 IDM in betel vine 2 Biopesticides and their application	IDM in Betel vine	GD	Pesticid es
22	Quality nut producti on in coconut	Coconut	Eryophite mite attack			1. Eryophite mite control in Coconut			
23	Increase in mushroom production	Mushroom	Disease pest contamination	IPDM in mushroom		Disease pest management in edible fungus		GD Field visit	Spawn and pesticid e
24	Pond manage ment	Piscicul ture	Low yield	-	-	1.pond management before and after stocking of fingerings 2.Liming and fertilization in fish pond	-	GD ID	
25	Fish Farming	Piscicul ture	Low yield due to less knowledge in applied techniques	-	1. Composite pisciculture. 2. Poultry cum pisciculture 3. Magur culture	1.Techniques in Composite fish farming 2.Integrated fish farming 3.Technique in magur culture	1. Fish farming for SHGs 2.Aqua culture in integrated intensive farming system	-Field day -GD -ID -CD show - Exposu	Fingerli ngs of Indian major carps, common carps, Grass

								re visit	carps, Chicks Magur fingerlin gs Feeds
26	Rearing of Young ones	Piscicul ture	Less availability of fish fingerlings	-	-	1. Fish fingerling production techniques 2. Breeding and rearing in ornamental fish.	-	-GD -ID - Exporu se visit	-
27	Nutrient manamg emnet.	Piscicul ture	Less growth of fish	Effect of standardize feed on growth of magur culture	-	-	Nutrient management in composite fish farming	-GD -ID	Feed
28	Prawn culture	Piscicul ture	Less interent in the continuous Indian majorcarp culture and poor in economical condition.	-	-	Monoculture of fresh water prawn	-	-GD -ID	-
29	Disease manage ment	Piscicul ture	Disease problem with less production	Biological control of fish diseases by use of plant products	-	Fish disease and their control	-	-GD -ID	Aquane em & turmeric powder
30	Post harvest technolo gy	Piscicul ture	No use of low price fishes	-	-	Value addition in low price fishes	-	-GD -ID Interact ive demon stration	

#### B. Details of each on Farm Trial to be furnished in the following format

# 1. Title of on-farm trials: Screening suitable variety for medium to low land condition

- \* **Problem diagnose :** Low yield of paddy in medium to low land situation
- \* Details of technologies selected for assessment/refinement: Introduction of high yielding of

variety T<sub>1</sub>- Swarna

T<sub>2</sub>- Pratikshya

- \* Source of technology: OUAT, Bhubaneswar
- \* Production system and thematic area: Rice Pulse
- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: Suitable to situation
- \* Constraints identified and feedback for research: i ) No constraints during OFT

ii) May be a substitute to the ruling variety Swarna

\* Process of farmers participation and their reaction: Training, GD, ID, Field day, OFT Work

Crop enterpriser	Farming situation	Problem Diagnosed	No of trials *	Technolog y Assessed	Parameters of assessment 6
Paddy	Irrigated	Low yield of rice	8	Assessme nt of new release variety Pratikshya	1)Technical observation 2)Economi c indicator 3)Farmers reaction 4)Farmers feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refin emen t done	Justification for refinement
7	8	9	10	11
Plant Ht= No of Tillers/ pf = Test weight= Disease pest incidence if any	It maintain the multiple resistance Gives slightly higher yield as compared to Swarna Increase in yield = 6% with same cost of cultivation	Farmers are satisfied with the performance of Paddy variety Pratikshya with respect to yield, grain quality and disease pest resistance Highly acceptability in existing farming system	-	-

Technology assessed/refined	*Production per unit	Net return (profit ) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice $T_1$ – var- Swarna	4160 Kg	-	-
Technology assessed $T_2$ – var-Pratikshya	4400 Kg	1750	1.06
Technology refined	-	-	-

## 2. Title of on-farm trials: Selection of suitable scented rice Variety

- \* Problem diagnose: Low yield of local variety Basuabhog and less aroma in grains
- \* Details of technologies selected for assessment/refinement: Introduction of scented rice variety

T<sub>1</sub>- Basuabhog T<sub>2</sub>- Ketakijuha

- \* Source of technology: CRRI, Cuttack
- \* Production system and thematic area: Rice Pulse

Product of quality rice

- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator,farmers reaction,farmers feedback
- \* Final recommendation for micro level situation: Suitable to coastal eco situation
- \* Constraints identified and feedback for research: i ) problems in purchase of seed

ii) ongoing OFT

\*Process of farmers participation and their reaction: Training,GD,ID,Field day

Crop enterpriser	Farming situation	Problem Diagnosed	No of trials	Technolog y Assessed	Parameters of assessment
1	2	3	4	5	6
Paddy	Irrigated	Low yield and less price of rice	8	Introducti on of newly release scented rice var- ketakijuha	1)Technical observation 2)Economi c indicator 3)Farmers reaction 4)Farmers feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refine ment	Justification for refinement
7	8	9	10	11
-	Ongoing OFT	•Scented rice variety has good tillering ability	-	-

Technology	Production per unit	Net return (profit) in	BC ratio		
assessed/refined		Rs/unit			
12	13	14	15		
Farmers practice					
T <sub>1</sub> – var- Swarna					
Technology	ON GOING				
assessed					
T <sub>2</sub> – var- Pratikshya					

# 3. Title of on-farm trials: Screening suitable variety for medium land paddy

- \*Problem diagnose: Low yield of paddy in medium land condition
- \*Details of technologies selected for assessment/refinement:

T<sub>1</sub>- Konark & Surendra

T<sub>2</sub>- Naveen

\*Source of technology: CRRI, Cuttack

\* Production system and thematic area: Rice - Pulse

crop improvement

\* Performance of technology with parameter/indicators: Technical observation,

Economic indicator, farmers reaction, farmers feedback

- \* Final recommendation for micro level situation: First year Trial
- \* Constraints identified and feedback for research: No constraints, may be suitable to situation, further research
- \* Process of farmers participation and their reaction: Training, GD, Exposure visit and OFT

Crop enterpriser	Farming situation	problem Diagnosed	No of trials	Technolog y Assessed	Parameters of assessment
1	2	3	4	5	6
Paddy	Rainfed	Low yield paddy in medium land condition where farmers prefer a 4 month rice	5	Newly release variety Naveen is to be compared with surendra and Konark	1)Technical observation 2)Economi c indicator 3)Farmers reaction 4)Farmers feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refin emen	Justification for refinement
7	8	9	10	11
Yield time of maturity grains test weight	Ongoing OFT	The variety has good tillers and foliar growth	-	_

Technology	Production per unit	Net return (profit) in	BC ratio	
assessed/refined		Rs/unit		
12	13	14	15	
T <sub>1</sub> – Farmers practice				
var- Surendra and				
konark	ON GOING			
Technology assessed				
T <sub>2</sub> – var- Naveen				

## 4. Title of on-farm trials: Performance of tissue culture Banana var- Patakapura

- \* Problem diagnose: Low yield of Banana from traditional suckers
- \* Details of technologies selected for assessment/refinement:

T<sub>1</sub>- Patakapura (Local Sucker)

T<sub>2</sub>- Saplings of tissue culture Banana (var- Patakapura)

- \* Source of technology: RPRC, Bhubaneswar
- \* Production system and thematic area: i) Orchard Base

ii) Enhance Banana production

- \* **Performance of technology with parameter/indicators :** Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: First year Trial
- \* Constraints identified and feedback for research: sometimes availability of saplings
- \* Process of farmers participation and their reaction: i) Training, GD, Exposure visit and Farmer scientist interaction program
  - ii) Accepted as process of planting and post care is easy

Crop enterpriser	Farming situation	Problem Diagnosed	No of trials	Technolog y Assessed	Parameters of assessment
1	2	3	4	5	6
Banana	Irrigated	Low banana production and lack of uniformity in growth as well as disease	10	Saplings of tissue culture banana var- patkapura is introduced	1) Technical observation 2) Economic indicator 3) Farmers reaction 4) Farmers feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refin emen	Justification for refinement
7	8	9	10	11
_	Ongoing OFT	Crop growth is good Still there is no disease incidence	-	_

Technology assessed/refined	*Production per unit	Net return (profit ) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice T <sub>1</sub> – Traditional patkapura suckers	Ongoing	-	-
Technology assessed T <sub>2</sub> – tissue culture var-Patkapura	Ongoing	-	-
-	-	_	-
			19

## 5. Title of on-farm trials: Testing of wilting resistant variety of Brinjal

- \* **Problem diagnose :** Wilting causes heavy loss in brinjal cultivation
- \* Details of technologies selected for assessment/refinement:Introduction of wilt resistant variety BB-45C (Anushree)

T<sub>1</sub>-Farmers Variety

T<sub>2</sub>-Var-BB45C

- \*Source of technology: OUAT, Bhubneswar
- \* Production system and thematic area :vegetable-vegetable
- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: growing successfully

Showing resistance to wilt complex

\* Constraints identified and feedback for research: No Constraints

size of fruits are not appealing, further research

\* Process of farmers participation and their reaction: i) Training, GD, ID, Field day,

ii) accepted the technology for wilt check

Crop enterpriser	Farming situation	problem Diagnosed	No of trials	Technolog y Assessed	Parameters of assessment
1	2	3	4	5	6
Brinjal	Irrigated	Severe wilt complex in brinjal	6	Wilt resistance, new released variety introduced	1) Technical observation 2) Economic indicator 3) Farmers reaction 4) Farmers feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refin emen t done	Justification for refinement
7	8	9	10	11
No of fruits/ plant= % plants infested with wilt=	•Gave higher yield than local pendi % Increase in yield 41% Resistant to wilt	•Satisfied with the disease resistance •Small size fruits •Can be taken in both kharif & rabi season	-	20

Technology assessed/refined	Production per unit	Net return (profit ) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice $T_1$ – farmers variety (Pendi)	21000 kg	-	-
Technology assessed T <sub>2</sub> -BB45C( Utkal Anushree)	31800 kg	54500/-	1.51
-	-	-	-

# 6. Title of on-farm trials: Sustainability of strain of oyster Mushroom during low temperature occurrence

- \* **Problem diagnose :** Low yield, disease infestation, problem in bud initiation, (p.sajorcaju) during low temperature occurrence
- \* Details of technologies selected for assessment/refinement: if a suitable strain is selected may help in increase production and check contaminates during low temperature occurrence
- \* Source of technology: Technology OMRT, OUAT, and OFTS of KVKs and refined by OFT NO 6
- \* Production system and thematic area: house hold condition mushroom culture
- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: very much suitable during low temperature occurrence
- \* Constraints identified and feedback for research: No Constraints highly acceptable during low temperature occurrence i.e.day temperature < 24° C , night temperature < 15° C
- \* Process of farmers participation and their reaction: i) GD,ID, participatory OFT

ii) verv good strain

Crop enterpriser	Farming situation	Problem Diagnosed	No of trials	Technolog y Assessed	Parameters of
1	2	3	4	5	6
Mushroom	Household	Low yield of ruling strain P. Sojarcaju during low temperature condition	300 beds	-	

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
-Bunch type -white in colour -Roundish Petal -Attack of less constraints	T <sub>2</sub> – PLeurotus Florida Gave higher average yield compared to P.sojarcaju Also resistance to diseases	-Yield is high -Perishability is higher than -P.sojarcaju less attack of constraints	Refinement of technology is selection of strain which is suitable to low temperature for both growth of mycelium and fruiting	Pleurotus sojarcaju is the ruling strain of our state because of high yield and taste but during low temperature occurrence in mid to last part of winter this variety gave low yield and sometimes problem in bud sprouting. When fruiting is delayed require high temperature for fruiting, beds are opened for long time exposing upto more contaminates

Technology assessed/refined	Production per unit	Net return (profit) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice $T_1$ – <i>Pleurotus</i>	-	-	-
Technology assessed	-	-	-
Technology refined T <sub>2</sub> -PLeurotus florida	1.85 kg/bed	22/-per bed	1.61

## 7. Title of on-farm trials: Storage of pulses by the use of ITK.

- \* Problem diagnose: Spoilage of pulse grains due to improper method of storing
- \* Details of technologies selected for assessment/refinement: Locally used materials may reduce spoilage of pulse grains during storage without any test and residual toxicity
- \* Source of technology:
- \* Production system and thematic area: house hold condition Safe storage
- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: Mixing Neem and begunia leaf followed by sun drying and storing is recommended
- \* Constraints identified and feedback for research: No Constraints

other locally available materials for pest control to be validated

• Process of farmers participation and their reaction: i) GD,ID, training

Crop enterpriser	Farming situation	problem Diagnosed	No of trials	Technolo gy Assessed	Parameters of assessment
1	2	3	4	5	6
Pulses	Household storage	Spoilage of pulse grain due to improper method of storing	14	Sun drying followed by mixing of neem leaf + Begunia leave	Technical Observatio n Economic indicator Farmers reaction Farmers Feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refineme nt done	Justi ficat ion for refi nem ent
T1=Storing without any treatment Loss of weight = 12%  T2=Loss of wt =3%	•Loss of grain wt was found the least I.e. only 3% in case of storing the seeds by mixing neem and begunia leave in compared to storing the pulses without any treatment in which loss was as high as 12% • 1 Q seeds reduced to 88 Kg against 97 Kg in treated seed lot	*pest incidence reduced in adding neem and begunia leaf * Available all time all where	-	-

Technology assessed/refined	production per unit	Net return (profit) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice $T^1 = \text{sun drying}$ and storing	Less in storage assessed 12 %	-	-
Technology assessed T2= sun drying and storing with dried neem leaf + begunia leaf	Less in storage assessed 3%	Rs. 300/-	1.1
	-	-	-

#### 8. Title of on-farm trials: evaluation of duck breed.

- \* **Problem diagnose:** Poor performance of local duck with respect to meat and egg production due to low production potential
- \* Details of technologies selected for assessment/refinement:  $T_1 = Local duck$

 $T_2 = Khaki Campbell$ 

\*Source of technology: CARI, Bhubneswar

\* Production system and thematic area: Pond base

**Duckery Management** 

- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: Suitable to rural pond base situation
- \* Constraints identified and feedback for research: sometimes unavailability of new varieties some other new varieties like khaki campbell are also required
- \* Process of farmers participation and their reaction: i) GD,ID, visit to KVK

Crop enterpriser	Farming situation	problem Diagnosed	No of trials	Technolo gy Assessed	Parameters of assessment
1	2	3	4	5	6
Duckery	Pond Base	Poor performanc e of local ducks with respect to meat and egg	6	Suitable duck breed may help in increasing household income	Technical Observatio n Economic indicator Farmers reaction Farmers Feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
7	8	9	10	11
		Khaki campbel l is very quick growing compare d to local ducks	-	-

Technology assessed/refined	production per unit	Net return (profit ) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice T <sup>1</sup> = Local duck	On going trial	-	-
Technology assessed T2= Khaki Campbell	-	-	-
-	-	-	-

# 9. Title of on-farm trials: control of fish diseases by the use of plant products.

- \* Problem diagnose: fish diseases in culturable pond
- \* Details of technologies selected for assessment/refinement:

 $T_1$  = Local practice (lime application)  $T_2$  = Aquaneem + turmeric powder

- \*Source of technology: CIFRI, Barrackpore
- \* **Production system and thematic area**: Pond base, Fish diseases
- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: use of Aquaneem and turmeric powder suitable to control tail and fin rot diseases
- \* Constraints identified and feedback for research: No constraints
- \* Process of farmers participation and their reaction: i) GD,ID, field visit

Crop enterpriser	Farming situation	problem Diagnosed	No of trials	Technolog y Assessed	Parameters of assessment
1	2	3	4	5	6
Fishery	Pond Base	Fish diseases in cultuarable pond	9	Use of suitable plant product for fish diseases control Aquaneem + Turmeric Powder	Technical Observation Economic indicator Farmers reaction Farmers Feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refin emen t done	Justi ficat ion for refin eme
% of curing diseases	Among the treatment the pond treated with aquaneem + turmeric powder was found to control the diseases by 96% whereas local practice gave only 12.3% for control of diseases	*Easy availability of plant products •Low cost and effective in controlling the diseases •Disease identification at the time of attack is difficult	-	-

Technology assessed/refined	Production per unit	Net return (profit ) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice $T_1$ = Local practice (lime application)	1200 kg	-	-
	2000 kg	25000/-	1.1:1
	-	-	-

## 10. Title of on-farm trials:Integrated pest disease management in mushroom.

- \* Problem diagnose :pest and disease contaminants in mushroom bed found
- \* Details of technologies selected for assessment/refinement:  $T_1 = No$  treatment/ sometimes hot water Treatment  $T_2 = Integrated$  approach for pest diseases control (Cow urine + need base chemicals)
- \* Source of technology:NCMRT, solan

accecced

\* Production system and thematic area: Household situation

integrated pest management

- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: First year trial
- \* Constraints identified and feedback for research: No constraints

How to complete avoid chemicals

• Process of farmers participation and their reaction: i) GD,ID, visit to KVK

Crop enterpriser	Farming situation	problem Diagnosed	No of trials *	Technology Assessed	Parameters of assessment
1	2	3	4	5	6
Mushroom	Househol d	Severe pest and disease contaminant in mushroom beds	5	Use of cow urine & Chemical	Technical Observation Economic indicator Farmers reaction Farmers Feedback

Data on the parameter	Results of assessmen			Feedback from the farmer Any refinement done		Justification for refinement
7	8		9		10	11
-colour - Yield Perishibility	On go	ing	On going		On going	On going
Market Technology assessed/ref		Produ	ction per unit	Net return (profit ) in Rs/unit		BC Ratio
12			13		14	15
Farmers practice Re		Resu	ult assessment stage		-	- 28
Technology			-		-	-

# 11. Title of on-farm trials: Yield performance of paddy straw mushroom under household situation.

- \* **Problem diagnose :** Low yield of paddy straw mushroom due to improper method of raising bed in summer
- \* Details of technologies selected for assessment/refinement: Suitable method of raising bed during summer season may help in increasing the production of mushroom

$$T_1 = 2' \times 2'$$
 size cross bed  $T_2 = 10$  " x 5' size bed

\* Source of technology: NCMRT, Solan

\* Production system and thematic area: House hold

Mushroom production

- \* Performance of technology with parameter/indicators: Technical observation, Economic indicator, farmers reaction, farmers feedback
- \* Final recommendation for micro level situation: Trench bed type of cultivation gives higher yield
- \* Constraints identified and feedback for research: No constraints

\* Process of farmers participation and their reaction: i) GD,ID, visit to KVK, mushroom field day

Crop enterpriser	Farming situation	problem Diagnosed	No of trials *	Technology Assessed	Parameters of assessment
1	2	3	4	5	6
Mushroom	house hold	Low yield of paddy straw mushroom in summer season	5	For summer season to practice the bed size 10 " x 5' in place of 2' x 2' bed in other periods	Technical Observation Economic indicator Farmers reaction Farmers Feedback

Data on the parameter	Results of assessment	Feedback from the farmer	Any refineme nt done	Justi ficat ion for refin eme nt
7	8	9	10	11
yield in $T_1^{=1.25 \text{ kg/bed}}$ $T_2^{=1.60 \text{ kg/bed}}$	Increase in yield compared to previous practice is 28%	*Yield performance is better *Easy technology to handle	-	-

Technology assessed/refined	Production per unit	Net return (profit ) in Rs/unit	BC Ratio
12	13	14	15
Farmers practice $T_1 = 2' \times 2'$ size cross bed	1.25 kg/bed	-	-
Technology assessed T <sub>2</sub> = 10 "x 5' size	assessed		1.28:1
- 22 1 1:	-	-	-

3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous year and popularized during 2006-07 and recommended for large cale adoption in the district.

Slno	Thrmatic Area	Technolog y demonstra ted	suggeste	zation methods	1	Horizontal spread of technology				
					No o villaş		No o		Are	a in ha
1	Crop	Nitrogen management in low land paddy	Demonstr day	ation GD field			Som FLE com rece & so are	pleted ntly ome		
2	Cultivation of fruit	High yielding papaya cultivation	Training 6	exposure visit,						
3	IPM	Pheromone trap in paddy	ID, field de exposure	lay, training, visit						
4	Fishery	Composite fish farming	Training, day	CD Show, field						
5	Crop production	Ground nut cultivation	GD, field	visit, training						
Sl No	Thrmatic Area	Technolog demonstrat	-		sted		rizor hnol	ntal spr	ead o	of
						No vill		No of farme		Area to ha
6	Cropping	pulse prod	uction	Field visit, train	ning,			Some	FLI	)

B. Details of FLDs impleme following three tables for ea cotton and commercial crop	ch category i.e. cere	7 (Information is to eals, horticultural cr	be furnished in the ops, oilseeds, pusso	es,

Sl	Crop	The matic	Technology	Seaso				No of		Reason
No		area	Demonstrated	n and	Are	(ha)		ers/de		s for
				year	Prop	Act	SC/	tration Ot	To	shortfal 1 in
					osed	ual	ST	her	tal	achieve
				2006-	Osca	uai	51	S	tai	ment
				07						
1	Rice	Crop	Nitrogen management in	kharif	4	4	2	8	10	
		production	low land paddy							
2	Papaya	Cultivation of	High yielding papaya	kharif	1.5	1.3	3	5	8	As per
	1 7	fruit	cultivation							Action
3	Rice	IPM	Pheromone trap in paddy	kharif	2	2	-	4	4	plan
4	Fish	Fishery	Composite fish farming	Kharif , Rabi	0.24	0.24	-	3	3	
5	farming G.nut	Crop	Ground nut cultivation	Rabi	5	5	2	12	14	
3	O.nut	production	Ground nut cultivation	Kaui	3	3	2	12	14	
6	Pulse	Cropping	Pulse production	Rabi	10	10	4	21	25	
		system	G.gram,B.gram)							
7	Rice	Cropping	High yielding rice in	Kharif	8	7	2	18	20	
		system	medium to low land							
0	D-4-4-	IPM	situation	D -1-:	2	2	1	1.0	20	
8	Potato	IPM	Tuber treatment in potato	Rabi	2	2	4	16	20	
9	Tomato	Protective	Plastic mulching in	Rabi	0.3	.3	-	3	3	
		cultivation	tomato							
10	Rice	Crop diversificatio	High yielding scented	Kharif	4	4	1	9	10	
		n	rice							
11	Drumstic	Vegetable	Improve drum stick	Kharif	0.4	.24	1	3	4	
11	k	production	cultivation	Kiiaiii	0.4	.24	1	3	4	
12	Nutrition		Nutritional gardening	Kharif	0.4	.4	2	8	10	
	al	Home science	8	, Rabi						
	gardening									
13	HT rose	Ornamental plant	Introduction of HT rose	Kharif	0.2	.14	1	4	5	
14	Fish	Fishery	Biological control of	Kharif	0.2	.2	-	4	4	
	farming		aquatic weed in fish pond	, Rabi						
15	Mushroo	Mushroom	Oyster mushroom	Winter	300	300	2	18	20	
	m	cultivation	cultivation		bed	bed				

# **Details of farming situation**

Crop	Season	Farming situation (RF/Irrig ated )	Soil type	soi	atus ( 1 g/ha)		Previou s crop	Sowing date	Harvest date	Seaso nal rainfa ll (mm)	No of rain y days
				N	P	K					
Paddy (1)	Kharif	Irrigated	Alluvial				Pulse	5.6.06	20.12.06		
Paddy (11)	Kharif	Rainfed & irrigated	Alluvial				Pulse	26.7.06	28.12.06		
Paddy (111)	Kharif	Rainfed	Alluvial				Pulse	8.8.06	28.12.06		
Tomato	Rabi	Irrigated	Sandy loam				Vegeta ble	15.11.06	14.02.06		
Potato	Rabi	Irrigated	Clay loam				Rice	14.11.06	-		
G.Nut	Rabi	Irrigated	Alluvial				Rice	8.1.07	10.5.07		
G.gram	Rabi	Irrigated	Alluvial				Rice	19.1.07	5.4.07		
B.gram	Rabi	Irrigated	Alluvial				Rice	23.1.07	11.4.07		

## **Performance of FLD**

Sln	Crop	Technology	Variety	No of	Area (ha)
1	2	3	4	5	6
1	Paddy (1)	High yielding rice in medium to low land	Pooja	06	02
2	Paddy (11)	Nitrogen management in low land paddy	CR-1018	10	04
3	Paddy	Pheromone trap in paddy	Pooja	04	02
4	Tomato	Plastic mulching in	BT-10	03	03
5	Potato	Tuber treatment in potato cultivation	K-22 Sathia	20	02
6	G.Nut	Package demonstration	Smruti	14	05
7	G.gram	Package demonstration	PDM-54	13	05
8	B.gram	Package demonstration	PU-30	12	05
9	Fish farming	Composite pisciculture	IMC (with grass carp)	03	0.24
10	Fish farming	Biological control of aquatic weed in fish pond	IMC	04	0.2
11	Oyster mushroo	Raising oyster mushroom	P. sajarcaju	20	360 bed

Crop	Demo. yield qtl/ha			Yield of local check	Increase in yield (%)	Data on parameter in relation to	
	Н	L	A			Demo	Local
7	8	9	10	11	12	13	14
Paddy (1)	44.6	31.0	36.1	26.0	39		
Paddy (11)	41.8	36.4	37	27	25		
Paddy(111)	36.2	29.2	33.3	28	19		
Tomato	288	209	275	188	32		
Potato	224	198	210	185	13		
G.Nut	24.8	17.7	21.1	17	26		
G.gram	10.7	6.2	9.0	5.1	77		
B.gram	9.8	5.8	8.8	4.7	87		
Fish	41	27	34	22	54		
Fish	35	21	28	18	34		
Oyster mushroom	2.8	1.6	2.0	1.6	-		

# ${\bf Economic\ impact\ (continuation\ of\ previous\ table)}$

Average C cultivation (		Average Gro		Average Net (profit) (R	Benefit cost Ratio (Gross Return/Gross Cost)	
Demonstration	Local	Demonstration	Local	Demonstration	Local	
	check		check		check	
14	15	16	17	18	19	20
12,800	12,200	21,600	15,600	8,800	3,400	1.6:1
13,400	12,000	22,200	16,200	8,800	4,200	1.65:1
14,200	13,000	19,980	16,800	5,780	3,800	1.4:1
29,250	28,400	68,750	47,000	39,550	18,600	2.3:1
39,000	38,200	84,000	74,000	45,000	35,800	2.1:1
12,500	10,600	31,560	25,550	19,150	14,950	2:1
6,200	4,700	18,000	10,200	11,800	5,500	2.8:1
6,400	4,800	17,600	9,400	11,200	4,600	2.7:1

# Analytical Review of component demonstrations (details of each component for rainfed/irrigated situations to be given separately for each season)

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
		1. Seed/Variety	-	-	-	-
		2. Bio-Fertilizer	-	-	-	-
		3. Fertilizer	-	-	-	-
		management				
		4. Plant Protection	-	-	-	-
		5. Combination of	-	-	-	-
		components (Please specify)				

**Technical Feedback on the demonstrated technologies** 

Technology	Feedback
1. High yielding rice in low land situation	Farmers were satisfied with the yield and quality of grain
2. Nitrogen management in low land paddy	Farmers accepted and were convinced because coated urea fulfilled nitrogen requirement of
3. Pheromone trap in paddy	Farmers were convinced by extension approach of "Seeing in believing " to control the same borer & yield increased by 19%
4. Plastic mulching in tomato	Convinced about cost benefit ratio & also labour saving
5. Tuber treatment in potato	Very effective treatment to minimize disease in potato
6. Ground Nut cultivation	Very much acceptable to farming situation
7. Green gram cultivation	Improvement of technology through
8. Package demonstration in back gram	Very much acceptable to existing farming
9. Composite pisciculture	Farmers are convinced regarding yield & profit also compatible with existing farming system
10. Biological control of aquatic weed in fish pond	IMC with grass carp control the aquatic weed & highly accepted by the farmers due to increase in yield
11. Oyster mushroom cultivation	Satisfied as it was profitable easy practice and compatible 37

# Farmer's reactions on specific technologies

Technology	Feedback
1. High yielding rice in low land situation	Fine grain synchronous flowering & ripening, high yielding
2. Nitrogen management in low land paddy	Prolonged greenness due to neem coated urea
3. Pheromone trap in paddy	Stem borer insects trapped
4. Plastic mulching in tomato	Use of plastic mulching control weed & helped in water conservation
5. Tuber treatment in potato	No wilting in early plant growth & blight in
6. Ground Nut cultivation	Pod formation & quality of the variety is good oil content is more
7. Green gram cultivation	Crop growth is better due to application of balanced fertilizer dose
8. Package demonstration in back gram	Replacement of local variety gave better yield
9. Composite pisciculture	Growth of fish was healthy in all the three
10. Biological control of aquatic weed in fish pond	IMC with grass crap control the aquatic weed and fish growth was optimum
11. Oyster mushroom cultivation	Easy practice 2 to 3 times plucking with higher yield from the first plucking

# **Extension and Training activities under FLD**

Slno	Activity	No of activities organise	Date	Number of participa	Remarks
1	Field days	14	10.9.06, 29.9.06 18.10.06, 28.10.06 13.11.06, 21.11.06 2.12.06, 4.12.06 2.3.07, 4.1.07 23.3.07, 24.07 9.5.07, 30.6.07 8.9.07	316	
2	Farmers training	06	6.10.06, 19.10.06 4.11.06, 5.11.06 29.6.07, 18.7.07	68	
3	Media coverage	-		-	Radio Talk News paper
4	Training for extension functionaries	02	8.11.06, 11.7.07,31.8.07 2.9.07,14.9.07	13	

#### C. Details of FLD on Enterprises

#### (i) Farm implements

Name of the	Crop	No.of	Area	Performanc	*Data on		% change	Rem
implement		farmers	(ha)	e parameters	parame		in the	arks
				/indicators	relation to		parameter	
					technology			
					demonstrated			
					Demon	Local		
						check		
-	_	-	-	-	-	-	-	-

<sup>\*</sup> Field efficiency, labour saving etc.

#### (ii) Livestock Enterprises

Enterprise	Breed	No.of	No.of	Performance	*Data on		% change in	Rema
		farmer	animals,	parameters/in	parameter	in	the parameter	rks
		S	poultry	dicators	relation to			
			birds etc.		technology			
					demonstrated			
					Demon	Local		
						check		
-	-	-	-	-	-	-	-	_

<sup>\*</sup>Milk production, meat production, egg production, reduction in disease incidence etc.

#### (iii) Other Enterprises

Enterprise	Variety/breed/	No.of	No.of	Performance	Data o	n	% change in	Remarks
	species/others	farmers	units	parameters/i	param	eter in	the	
				ndicators	relatio	n to	parameter	
					technology			
					demonstrated			
					Dem	Local		
					on	check		
Mushroom	Raising oyster	20	300	-	2 kg	-	43	High
	mushroom		beds					acceptab
								ility

#### ${\bf 3.3}$ Achievements on Training (Including the sponsored and FLD training Programmes):

### A) ON Campus

	No of			No.	of partici	pants		
Thematic Area	No.of		Others		SC/ST			Grand
	courses	Male	Female	Total	Male	Female	Total	Total
(A)Farmers & Farm Women								
I.Crop Production								
Weed Management	01	20	-	20	-	-	-	20
Resource Conservation								
Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management	1	18	-	18	2	-	2	20
Seed production								
Nursery management								
Integrated crop management	3	56	-	56	4	-	4	60
Fodder production								
Production of organic inputs								
II. Horticulture								
a) Vegetable Crops								
Production of low volume and								
high value crops								
Off-season vegetables	1	6	-	6	14	_	14	20
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables	1	14	12	26	1	3	4	30
Grading and standardization								
Protective cultivation (Green								
Houses, shade Net etc.)								
b) Fruits								
Training and pruning								
Training and Management of								
orchards								
Cultivation of fruit								
Management of young	1	_	11	11	-	4	4	15
plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of								
orchards								
Plant propagation techniques								
c) Ornamental plants								

Nursery management								
Management of potted plants								
Export potential of ornamental								
plants								
Propagation techniques of								
ornamental plants								
d) Plantation crops								
Production and management								
technology								
Processing and value addition								
e) Tuber crops								
Production and management								
technology								
Processing and value addition								
f) Spices								
Production and management								
technology								
Processing and value addition								
g) Medicinal and Aromatic								
Plants								
Nursery management								
Production and management								
technology								
Post harvest technology and								
value addition								
III. Soil Health and Fertility								
Management								
Soil fertility management	1	8	-	8	2	-	2	10
Soil and water conservation								
Integrated nutrient	1	18	-	18	2	-	2	20
management								
Production and use of organic								
inputs	_		_				_	
Management of problematic	2	35	3	38	2	-	2	40
soils								
Micro nutrient deficiency in								
crops								
Nutrient use Efficiency								
Soil and water Testing								
IV. Livestock Production and								
Management								
Dairy management					-			
Poultry management								
Piggery management								
Rabbit management		1						

Disease management								
Feed management								
Production of quality animal								
products								
V. Home Science/Women								
empowerment								
Household food security by								
kitchen gardening and nutrition								
gardening								
Design and development of								
low/minimum cost diet								
Designing and development for								
high nutrient efficiency diet								
Minimization of nutrient loss								
in processing								
Gender mainstreaming through								
SHGs								
Storage loss minimization								
techniques								
Value addition								
Income generation activities	2	_	31	31	-	4	4	35
for empowerment of rural								
women								
Location specific drudgery								
reduction technologies								
Rural crafts								
Women and child care								
VI . Agril. Engineering								
Installation and maintenance of								
micro irrigation systems								
Use of plastics in farming								
practices								
Production of small tools and								
implements								
Repair and maintenance of								
farm machinery and								
implements								
Small scale processing and								
value addition								
Post Harvest technology								
VII .Plant Protection								
Integrated pest management	5	60	20	80	18	2	20	100
Integrated Disease								
management								
··· <i>O</i> ·· · · · ·	İ	1	ı	1	1	l	1	

Bio-control of pests and	3	28	25	53	2	5	7	60
diseases								
Production of bio control								
agents and bio pesticides								
VIII. Fisheries								
Integrated fish farming	1	20	-	20	-	-	-	20
Carp breeding and hatchery								
management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and	3	61	-	61	9	-	9	70
culture of freshwater prawn								
Breeding and culture of								
ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn	2	29	-	29	1	-	1	30
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value								
addition								
IX. Production of inputs at								
site								
Seed production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi -compost production								
Organic manures production								
Production of fry and								
fingerlings								
Production of Bee-colonies and								
wax sheets								
Small tools and implements								
Production of livestock feed								
and fodder								
Production of fish feed								
X. Capacity Building and								
Group Dynamics								
Leadership development								
Group dynamics	1	_	18	18	-	2	2	20
Formation and management of								
SHGs								
Mobilization of social capital								

Entrepreneurial development	3	28	17	45	-	5	5	50
of farmers/youths								
WTO and IPR issues								
XI. Agro-Forestry								
Production technologies								
Nursery management								
Integrated farming systems								
XII. Others (Pl. Specify)								
TOTAL								
(B) RURAL YOUTH								
Mushroom production	3	26	13	39	7	2	9	48
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	2	13	-	13	2	-	2	15
Integrated farming								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of								
vegetable crops								
Commercial fruit production	2	16	3	19	2	-	2	21
Repair and maintenance of								
farm machinery and								
implements								
Nursery management of								
Horticulture crops								
Training and pruning or								
orchards								
Value addition	3	20	11	31	5	4	9	40
Production of quality animal								
products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								

Cold water fisheries								
Fish harvest and processing								
technology								
Fry and fingerling rearing	2	42	1	43	7	_	7	50
Small scale processing	_							
Post Harvest Technology								
Tailoring and stitching								
Rural crafts								
Agro processing unit	1	19	_	19	1	_	1	20
TOTAL	1	17		17	1		1	20
(C) Extension Personnel								
Productivity enhancement in	3	16	10	26	4	-	4	30
field crops								
Integrated pest management	3	29	-	29	1	-	1	30
Integrated nutrient								
management								
Rejuvenation of old orchards								
Protected cultivation								
technology								
Formation and management of								
SHGs								
Group Dynamics and farmers								
organization								
Information networking among	1	10	-	10	-	-	-	10
farmers								
Capacity building for ICT								
application								
Care and maintenance of farm								
machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder								
production								
Household food security								
Women and child care								
Low cost and nutrient efficient								
diet designing					1			
Production and use of organic	1	8	-	8	2	-	2	10
inputs								
Gender mainstreaming through								
SHGs								
Any other (Pl. Specify)								
Commercial flowericulture								
Prospects of medicinal plant	1	8	-	8	2	-	2	10

cultivation								
IIFS								
Spawn production								
Leadership development	1	-	10	-	-	-	-	10
Income generating	1	-	9	9	-	1	1	10
PRA exercise								
Management of CPR	1	-	8	8	-	2	2	10
TOTAL								

## **B) OFF Campus**

	N. C			No.c	of partici	pants		
Thematic Area	No.of		Others		SC/ST			Grand
	courses	Male	Female	Total	Male	Female	Total	Total
(A)Farmers & Farm								
Women								
I. Crop Production								
Weed Management								
Resource Conservation	1	16	-	16	4	-	4	20
Technologies								
Cropping Systems								
Crop Diversification	1	19	-	19	1	-	1	20
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated crop management	2	19	-	19	11	-	11	30
Fodder production								
Production of organic inputs								
II. Horticulture								
a) Vegetable Crops								
Production of low volume								
and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like								
Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green	2	20	7	27	9	4	13	40
Houses, shade Net etc.)								
b) Fruits								
Training and pruning								
Training and Management of								
orchards								

Cultivation of fruit	2	22	9	31	3	1	4	35
Management of young								
plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of								
orchards								
Plant propagation techniques								
c) Ornamental plants								
Nursery management								
Management of potted plants								
Export potential of								
ornamental plants								
Propagation techniques of								
ornamental plants								
d) Plantation crops								
Production and management								
technology								
Processing and value								
addition								
e) Tuber crops								
Production and management	1	8	3	11	3	1	4	15
technology								
Processing and value								
addition								
f) Spices								
Production and management								
technology								
Processing and value								
addition								
g) Medicinal and Aromatic								
Plants								
Nursery management								
Production and management								
technology								
Post harvest technology and								
value addition								
III. Soil Health and								
Fertility Management								
Soil fertility management								
Soil and water conservation								
Integrated nutrient								
management								
Production and use of								
organic				<u> </u>				

Inputs								
Management of problematic	2	37	2	39	1	_	1	40
soils		"	_		•		1	.0
Micro nutrient deficiency in								
crops								
Nutrient use Efficiency								
Soil and water Testing	2	39	_	39	1	_	1	40
IV. Livestock Production								
and Management								
Dairy management								
Poultry management								
Piggery management								
Rabbit management								
Disease management								
Feed management								
Production of quality animal								
products								
V. Home Science/Women								
empowerment								
Household food security by								
kitchen gardening and								
nutrition gardening								
Design and development of								
low/minimum cost diet								
Designing and development								
for high nutrient efficiency								
diet								
Minimization of nutrient loss								
in processing								
Gender mainstreaming								
through SHGs Storage loss minimization	1		10	10		2	2	20
_	1	-	18	18	-	2	2	20
techniques Value addition								
Income generation activities								
for empowerment of rural								
women								
Location specific drudgery								
reduction technologies								
Rural crafts								
Women and child care								
VI .Agril. Engineering								
Installation and maintenance								
of micro irrigation systems								
Use of plastics in farming								
	I	1	1	1	1	L	1	1

practices								
Production of small tools								
and implements								
Repair and maintenance of	1	10	-	10	10	_	10	20
farm machinery and								
implements								
Small scale processing and								
value addition								
Post Harvest technology								
VII. Plant Protection								
Integrated pest management	4	60	3	63	-	2	2	65
Integrated Disease	2	30	2	32	4	4	8	40
management								
Bio-control of pests and								
diseases								
Production of bio control	1	20	-	20	-	-	-	20
agents and bio pesticides								
VIII. Fisheries								
Integrated fish farming								
Carp breeding and hatchery								
management								
Carp fry and fingerling								
rearing								
Composite fish culture	1	18	-	18	2	-	2	20
Hatchery management and								
culture of freshwater prawn								
Breeding and culture of	1	16	-	16	4	-	4	20
ornamental fishes								
Portable plastic carp								
hatchery								
Pen culture of fish and								
prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value								
addition								
Magur culture	1	17	3	20	-	-	-	20
Fish diseases	1	8	-	8	2	_	2	10
IX. Production of inputs at								
site								
Seed production								
Planting material production								
Bio-agents production								
Bio-pesticides production								

	i l			
1 20 -	20 -	_	_	20
	20			20
1 - 21	21 -	4	4	25
		†		20
1 - 20	20 -	_	_	20
				20
2 22 8	30 -	_	_	30
t				
1 13 2	15 5	-	5	20
1 15 -	15 5	-	5	20
1 15 -	15 5	-	5	20
2 20 -	20 5	-	5	25
1				
1 16 -	16 4	-	4	20
1 - 20 2 22 8  t	20 - 30 - 15 5 15 5 20 5	-	5 5 5 5	20 25

Nursery management of Horticulture crops	2	23	9	32	7	1	8	40
Training and pruning or								
orchards								
Value addition	2	10	20	30	5	5	10	40
Production of quality animal	1	-	16	16	-	4	4	20
products	1		10	10		-	_	20
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming				-				
Pearl culture								
Cold water fisheries								
Fish harvest and processing								
technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology	1	20	_	20	_	_	_	20
Tailoring and stitching	1	20		20				20
Rural crafts	1	_	18	18	_	2	2	20
TOTAL	1	1	10	10	_	2	2	20
TOTAL								
(C) Extension Personnel								
Productivity enhancement in								
field crops								
Integrated pest management								
Integrated nutrient								
management								
Rejuvenation of old orchards	1	10	_	10	_	-	_	10
Protected cultivation	1	10	_	10	_	-	_	10
technology								
Formation and management								
of SHGs								
Group Dynamics and								
farmers organization								
Information networking								
among farmers								

Capacity building for ICT								
application								
Care and maintenance of								
farm machinery and								
implements								
WTO and IPR issues								
Management in farm								
animals								
Livestock feed and fodder								
production								
Household food security								
Women and child care								
Low cost and nutrient								
efficient diet designing								
Production and use of								
organic inputs								
Gender mainstreaming	1	-	7	7	-	3	3	10
through SHGs								
Any other (Pl. Specify)								
Commercial flowericulture	1	10	-	10	-	-	-	10
Prospects of medicinal plant								
cultivation								
IIFS	1	10	-	10	-	-	-	10
Spawn production	1	3	3	6	-	3	3	9
Leadership development								
Income generating								
PRA exercise	1	-	8	8	-	2	2	10
Management of CPR								
TOTAL								

### C) Consolidated table (ON and OFF Campus)

	No of			No. o	of Parti	cipants		
Thematic Area	No. of Courses		Others			SC/ST		Grand
	Courses	Male	Female	Total	Male	Female	Total	Total
(A) Farmers & Farm V	Vomen							
I Crop Production								
Weed Management	01	20	-	20	-	-	-	20
Resource								
Conservation	01	16	-	16	04	-	04	20
Technologies								
Cropping Systems	-	-	-	-	-	-	1	-
Crop Diversification	01	19	-	19	01	-	01	20
Integrated Farming	-	-	-	-	-	-	1	-
Water management	01	18	-	18	02	-	02	20
Seed production	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-
Integrated Crop	05	75		75	1.5		1.5	00
Management	05	75	-	75	15	-	15	90
Fodder production	-	-	-	-	-	-	-	-
Production of organic								
inputs	-	_	-	-	-	-	-	-
II Horticulture								
a) Vegetable Crops								
Production of low								
volume and high	-	-	-	-	-	-	-	-
value crops								
Off-season vegetables	01	06	-	06	14	-	14	20
Nursery raising	-	-	-	-	-	-	-	-
Exotic vegetables like								
Broccoli	-	_	-	-	-	-	-	-
Export potential	0.1	1.4	10	26	01	02	0.4	20
vegetables	01	14	12	26	01	03	04	30
Grading and								
standardization								
Protective cultivation								
(Green Houses, Shade	02	20	07	27	09	04	13	40
Net etc.)								

b) Fruits								
Training and Pruning	-	-	-	-	-	-	-	-
Layout and								
Management of	-	_	-	-	_	-	-	-
Orchards								
Cultivation of Fruit	02	22	09	31	03	01	04	35
Management of	01		11	11	_	04	04	15
young plants/orchards	01	_	11	11	_	04	04	13
Rejuvenation of old								
orchards								
Export potential fruits								
Micro irrigation								
systems of orchards								
Plant propagation								
techniques								
c) Ornamental								
Plants								
Nursery Management								
Management of								
potted plants								
Export potential of								
ornamental plants								
Propagation								
techniques of								
Ornamental Plants								
d) Plantation crops								
Production and								
Management								
technology								
Processing and value								
addition								
e) Tuber crops								
Production and	0.1	0.0	0.2	1.1	0.2	0.1	0.4	4 =
Management	01	08	03	11	03	01	04	15
technology								
Processing and value								
addition								
f) Spices								

Production and	
Management	
technology	
Processing and value	
addition	
g) Medicinal and	
Aromatic Plants	
Nursery management	
Production and	
management	
technology	
Post harvest	
technology and value	
addition	
III Soil Health and	
Fertility	
Management	
Soil fertility 01 08 02 02 1	0
management 01 08 - 08 02 - 02 1	0
Soil and Water	
Conservation	_
Integrated Nutrient 01 18 - 18 02 - 02 2	20
Management 01 18 - 18 02 - 02 2	.0
Production and use of	
organic inputs	_
Management of 04 72 05 77 03 - 03 8	30
Problematic soils 72 03 77 03 - 03 6	,U
Micro nutrient	
deficiency in crops	
Nutrient Use	
Efficiency	
Soil and Water 02 39 - 39 01 - 01 4	10
Testing	.0
IV Livestock Production and Management	
Dairy Management	
Poultry Management	
Piggery Management	
Rabbit Management	
Disease Management	

Feed management								
Production of quality								
animal products								
V Home Science/Wom	ien empower	ment			I			
Household food								
security by kitchen								
gardening and								
nutrition gardening								
Design and								
development of								
low/minimum cost								
diet								
Designing and								
development for high								
nutrient efficiency								
diet								
Minimization of								
nutrient loss in								
processing								
Gender								
mainstreaming								
through SHGs								
Storage loss								
minimization	01	-	18	18	-	02	02	20
techniques								
Value addition								
Income generation								
activities for	02	_	31	31	_	04	04	35
empowerment of	02		31			0-1	04	33
rural Women								
Location specific								
drudgery reduction								
technologies								
Rural Crafts								
Women and child								
care								
VI Agril.								
Engineering								

T . 11				1			1	
Installation and								
maintenance of micro								
irrigation systems								
Use of Plastics in								
farming practices								
Production of small								
tools and implements								
Repair and								
maintenance of farm	0.1	10		10	10		10	20
machinery and	01	10	-	10	10	-	10	20
implements								
Small scale								
processing and value								
addition								
Post Harvest								
Technology								
VII Plant Protection								
Integrated Pest								
Management	09	`120	23	143	18	04	22	165
Integrated Disease								
Management Management	02	30	02	32	04	04	08	40
Bio-control of pests								
and diseases	03	28	25	53	02	05	07	60
Production of bio	0.1	20		20				20
control agents and bio	01	20	-	20	-	-	-	20
pesticides								
VIII Fisheries								
Integrated fish	01	20		20				20
farming	01	20	-	20	_	_	_	20
Carp breeding and								
hatchery management								
Carp fry and								
fingerling rearing								
Composite fish	0.1	10		1.0	0.2		0.2	20
culture	01	18	-	18	02	-	02	20
		1		l .		I	l .	

Hatchery management and culture of freshwater prawn	03	61	-	61	09	-	09	70
Breeding and culture of ornamental fishes	01	16	-	16	04	-	04	20
Portable plastic carp hatchery								
Pen culture of fish and prawn	02	29	-	29	01	-	01	30
Shrimp farming Edible oyster farming								
Pearl culture Fish processing and								
value addition								
Magur culture	01	17	03	20	-	-	-	20
Fish disease	01	08	-	08	02	-	02	10
IX Production of								
Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production	01	20	-	20	-	-	-	20
Production of fry and fingerlings								
Production of Bee-								
colonies and wax sheets								
Small tools and								
implements								

25
23
20
20
20
30
50
20
1210
40
48
20

Seed production								
Production of organic	02	13		13	02		02	15
inputs	02	13	<u>-</u>	13	02	-	02	13
Integrated Farming								
Planting material	01	15	_	15	05	_	05	20
production			_			_		
Vermi-culture	02	20	-	20	05	-	05	25
Sericulture								
Protected cultivation								
of vegetable crops								
Commercial fruit	02	16	03	19	02	_	02	21
production		10		17	02		02	21
Repair and								
maintenance of farm	01	16	_	16	04	_	04	20
machinery and	01	10						20
implements								
Nursery Management	02	23	09	32	07	01	08	40
of Horticulture crops				32	0,	- 01	00	
Training and pruning								
of orchards						_		
Value addition	05	30	31	61	10	09	19	80
Production of quality	01	_	16	16	_	04	04	20
animal products				10		· · ·	0.	
Dairying								
Sheep and goat								
rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension								
workers								
Composite fish								
culture								
Freshwater prawn								
culture								
Shrimp farming								

Pearl culture								
Cold water fisheries								
Fish harvest and								
processing								
technology								
Fry and fingerling	02	42	01	43	07		07	50
rearing	02	42	01	43	07	-	07	30
Small scale								
processing								
Post Harvest								
Technology	01	20	-	20	-	-	-	20
(Medicinal Plant)								
Tailoring and								
Stitching								
Rural Crafts	01	-	18	18	-	02	02	20
Agro processing unit	01	19	-	19	01	-	01	20
TOTAL	25	255	91	346	55	18	73	419
(C) Extension								
Personnel								
Productivity								• •
enhancement in field	03	16	10	26	04	-	04	30
crops								
Integrated Pest	03	29	-	29	01	-	01	30
Management								
Integrated Nutrient								
management								
Rejuvenation of old	01	10	-	10	_	_	_	10
orchards								
Protected cultivation	01	10	-	10	-	-	-	10
technology								
Formation and								
Management of								
SHGs Group Dynamics and				1				
Group Dynamics and								
farmers organization Information								
	01	10		10				10
networking among	O1	10	_	10	-	_	_	10
farmers							<u> </u>	

Capacity building for								
ICT application								
Care and maintenance								
of farm machinery								
and implements								
WTO and IPR issues								
Management in farm								
animals								
Livestock feed and								
fodder production								
Household food								
security								
Women and Child								
care								
Low cost and nutrient								
efficient diet								
designing								
Production and use of	0.1	00		00	02		02	10
organic inputs	01	08	-	08	02	-	02	10
Gender								
mainstreaming	01	-	07	07	-	03	03	10
through SHGs								
Any other (Pl.								
Specify)								
Commercial	01	10		10				10
flowriculture	01	10		10	_	_	_	10
Prospect of medicinal	01	08	_	08	02	_	02	10
plant cultivation			_		02	_	02	
IIFS	01	10	-	10	-	-	-	10
Spawn production	01	03	03	06	-	03	03	09
Leadership	10	_	10	_	_	_	_	10
Development		_			_	_	_	
Income generating	01	-	09	09	-	01	01	10
PRA Exercise	01	-	08	08	-	02	02	10
Management of CPR	01	-	08	08	-	02	02	10
TOTAL	19	124	45	169	09	11	20	189

**Note:** Please furnish the details of training Programmes **as Annexure in the proforma** given below **(Agronomy)** 

Date	Clientele	8 8	Durati	Vanue	Numb	er of parti	cipants	Number of SC/ST		
			on in days	(Off/O n Camp us)	Male	Female	Total	Male	Female	Total
17.10.06 to 19.10.06	F & FW	Use of SRI methods of paddy cultivation	3	Off	10	-	10	-	-	-
16.11.06	F & FW	Use of gypsum in groundnut	1	On	10	-	10	2	-	2
5.1.07	F & FW	Vermi compost	15	Off	3	2	5	-	-	-
20- 21.2.07	F & FW	Management of saline soil	2	On	20	-	20	3	-	3
11- 13.4.07	F & FW	Improved package & practice of direct seeded upland paddy	3	On	20	-	20	1	-	1
14.4.07	F & FW	Water management in sugarcane	1	Off	20	-	20	-	-	-
17- 18.4.07	F & FW	Improved package and practices of sugarcane	2	On	20	-	20	3	-	3
9-10.5.07	F & FW	Use of improved agricultural implements in paddy cultivation	2	Off	20	-	20	4	-	4
15- 17.5.07	F & FW	Package and practice of scented rice	3	On	20	-	20	1	-	1
1-5.6.07	RY	Vermiculture and vermicompost production technique	5	On	20	-	20	2	-	2
6-7.6.07	F & FW	Integrated weed control in upland paddy	2	Off	20	-	20	-	-	-

11- 12.6.07	F & FW	Techniques of soil sample collection	2	On	20	-	20	1	-	1
19- 20.6.07	F & FW	Package and practice of maize cultivation	2	On	17	3	20	4	-	4
10- 11.7.07	F & FW	INM in lowland paddy	2	Off	20	-	20	2	-	2
24- 25.7.07	F & FW	Management practices of hybrid rice	2	On	20	-	20	1	-	1
9-10.8.07	F & FW	Different problem soils and their reclamation	2	Off	20	-	20	-	-	-
21- 22.8.07	F & FW	Different problem soils and their reclamation	2	On	20	-	20	-	-	-
4-5.9.07	F & FW	Management of saline soil	2	On	15	5	20	-	-	-
17- 18.9.07	F & FW	Technique of soil sample collection	1	On	20	-	20	-	-	-
21- 22.9.07	F & FW	Retting techniques of jute in service extension personnel	1	Off	20	-	-	-	-	-
10.6.07	IS	Management technology of saline soil	2	Off	10	-	10	2	-	2
12.6.07	IS	Organic farming	2	Off	10	-	10	1	-	1
31.0.07 to 1.2.07	IS	Diversified crop planning in Jagatsinghpur dist	2	Off	9	1	10	2	-	2
18- 20.6.07	IS	Integrated rice based farming system	3	Off	9	1	10	2	-	2
25- 27.9.07	IS	Newly released varieties of crop their introduction and management	2	Off	-	10	10	-	-	-

#### Horticulture

Date	Clientele	Title of the training Programme	Durati	Vanue	Numb	er of parti	cipants	Number of SC/ST		
			on in days	(Off/O n Camp us)	Male	Female	Total	Male	Female	Total
23.10.06 to 1.11.06	RY	Commercial cultivation of tuberose of marigold	8	On	6	-	6	1	-	1
27- 28.12.06	F & FW	Cultivation of elephant foot yam	2	On	11	4	15	3	1	4
23- 24.2.07	F & FW	Selection of varieties for vegetable cultivation	2	Off	15	15	30	1	3	4
26.2.07 to 1.3.07	F & FW	Hi tech horticulture and precision farming	4	Off	20	-	20	4	-	4
17- 18.4.07	F & FW	Package of practices for season vegetable cultivation	2	Off	20	-	20	3	-	3
9-10.5.07	RY	Development of entrepreneurship through nursery	2	On	10	10	20	6	-	6
22- 26.5.07	RY	Developing mango and jackfruit orchard	5	Off	12	3	15	-	-	_
4-7.6.07	RY	Selection and production of quality planting material in coconut	4	Off	20	-	20	4	-	4
3-4.7.07	F & FW	Tissue culture Banana cultivation	2	On	2	13	15	-	-	-
11- 12.7.07	RY	Cultivation of Ghrotakumari	2	Off	20	-	20	-	-	-
2.8.07	F & FW	Tissue culture Banana cultivation	1	On	20	-	20	3	-	3
6-7.8.07	F & FW	Care and maintenance of coconut nursery	2	Off	-	15	15	-	1	10

21-	F & FW	Hi tech cultivation of cauliflower and	2	On	9	11	20	3	3	
22.8.07		cabbage								
4.9.07	F & FW	Use of machinery and equipments as	1	Off	18	2	20	5	5	
		harvester in fruit crop								
6-10.9.07	RY	Commercial cultivation of tuber crops	4	Off	20	-	20	5	5	
21-	RY	Establishment of medicinal plant	3	On	20	-	20	-	-	
23.9.07		nursery								
13-	IS	Low cost green house	2	On	10	-	10	-	-	
14.9.06										
7-9.11.07	IS	Commercial floriculture	3	Off	10	-	10	-	-	
28-	IS	Prospects of cultivation of medicinal	2	Off	10	-	10	-	-	
29.6.07		plants in the district								
27-	IS	Management of coconut orchard	5	Off	10	-	10	-	-	
31.8.07										

### **Fishery**

Date	Clientele	Title of the training Programme	Durati	Vanue	Number of participants			Number of SC/ST		
			on in days	(Off/O n Camp us)	Male	Female	Total	Male	Female	Total
7-8.1006		Monoculture of freshwater prawn	2	On	15	-	15	-	-	-
4.6.07		Pond management before and after stocking of fingerlings	1	On	19	-	19	1	-	1
5-6.7.07		Techniques in composite fish farming	2	On	19	-	19	1	-	1
11- 12.7.07		Integrated fish farming	2	On	19	-	19	1	-	1
2.8.07		Liming and fertilization in fish pond	1	On	28	-	28	2	-	2
3-4.8.07		Technique in magur culture	2	On	18	-	18	2	-	2
7-8.8.07		Breeding and rearing in ornamental fish	2	On	16	-	16	4	-	4
25- 26.9.07		Monoculture of prawn water prawn	2	On	18	-	18	2	-	2

Date	Clientele	Title of the training Programme	Durati	Vanue	Number of participants			Nun	Number of SC/ST		
			on in days	(Off/O n Camp us)	Male	Female	Total	Male	Female	Total	
15- 17.11.06	Farmers	IPM in kharif rice	3	On	10	-	10	1	-	1	
4 -5.1.07	Farmers	Techniques of safe grain storage	2	Off	10	5	15	3	2	-	
13.2.07	Farmers	Application of ITK in agriculture and allied field for pest control	1	Off	6	14	20	4	4	8	
5-6.4.07	Farmers	Disease and pest management in edible fungus	2	On	10	10	20	2	2	4	
3.5.07	Farmers	Borer management in sugarcane	1	Off	17	3	20	2	-	2	
19- 20.6.07	Farmers	Biopesticides and their use	2	On	14	6	20	-	-	-	
4-6.7.07	Farmers	IPM in kharif rice	3	On	20	-	20	1	-	1	
18.7.07	Farmers	Rechniques of seeds and seedling root treatment	1	On	16	4	20	3	-	3	
25.7.07	Farmers	E-mite control in coconut	1	Off	18	2	20	3	-	3	
Aug	Farmers	Wilt management in solanaceous vegetables	1	On	16	4	20	2	2	4	
Aug	Farmers	IPM in kharif rice	2	On	20	-	20	1	-	1	
5-6.9.07	Farmers	Use of neem base pesticide for pest control	2	On	10	10	20	2	1	3	
Sep	Farmers	IDM in betelvine	2	Off	18	2	20	2	2	4	
Sep	Farmers	Control of fruit shoot borer in brinjal	1	Off	18	2	20	2	_	2	
15- 17.5.07		Construction of honey bee rearing box	3	On	20	-	20	5	-	5	

12- 13.6.07	Lare, maintenance of plant protection equipments	2	On	20	-	20	4	-	4
Aug	Neem and karanja oil extraction techniques, preparid of neembase pestices	2	On	20	-	20	-	-	-
8-13.1.07	IPM in summer paddy	6	On	10	-	10	-	-	_
May	Integrated disease pest managemtn in sugarcane	2	On	10	1	10	1	-	-
July	Pest disease management in betlevine	2	On	10	-	10	1	-	1
Sept	Biopesticides and their application	2	Off	10	1	10	2	-	2

#### Home science

Date	Clientele	Title of the training Programme	Durati	Vanue	Numb	er of parti	cipants	Number of SC/ST		
			on in days	(	Male	Female	Total	Male	Female	Total
3-5.1.07	RY	Prepare value added product from seasonal fruits	3	ON	-	9	9	-	1	10
27.10.07	F	Tipson maintenance of sprayer and techno spraying	1	OFF	-	9	9		6	15
21.2.07	F	Storage of pulse by use of ITK	1	ON	-	18	18		2	20
11-6.3.07	RY	Appliqué work	5	OFF	-	16	16		4	20
20- 21.3.07	RY	Training to value addition to tamarind	2	ON	-	17	17		3	20
16- 17.4.07	F	Management of available resource by SHGs	2	OFF	-	17	17		3	20
20- 21.4.07	RY	Prescribe of seasonal fruits	2	ON	-	25	25		5	30
18- 19.6.07	RY	Prepare milk product	2	ON	-	19	19		1	20
20.6.07	F	Record maintenance to SHGs members	1	OFF	-	15	15		5	20
21.6.07	F	Raising management	1	ON	-	18	18		2	20
7.7.07	F	Leadership development in SHGs	1	OFF	-	25	25		-	25
17- 18.7.07	F	Plan layout of nutritional garden	2	ON	-	17	17		3	20
23- 25.10.07	IS	Training for SHG office farmer for raising seedlings	3	OFF	-	10	10		-	10
1-5.5.07	IS	Training on PRA for EF	5	ON	-	10	10		-	10
20- 21.9.07	IS	Effective manage of CPR by women SHGs for environment protection of office behavior.	2	OFF	-	10	10		-	10

### (D) Vocational training Programmes for Rural Youth

		No.of participants = 16					
Vocation	No. of Courses				SC/ST		
		Male	Female	ale Total	Male	Female	Total
Composite fish farming	01	07	-	07			
Mushroom cultivation	01	06	03	09			

### (E) Sponsored training Programmes

		No.of participants = 138							
Area	No. of Courses				SC/ST				
		Male	Female	Total N	Male	Female	Total		
IPM in betel	01	31	-	31	04	1	35		
vine	01						33		
IPM in veg	01	39	04	43	06	01	50		
Mushroom	01		07	07		03	10		
culture	U1	_	07	07	_	03	10		
Organic	02	41	01	42	01		43		
farming	02	41	01	42	U1	_	43		
Pisciculture	02	91	-	91	9	-	100		
TOTAL		202	12	214	20	4	24		

Date	Title	Duration	M	F	T	M	F	T	Total	
01.05.07 to	Recycling spent mushroom substrate									
05.05.07	for sustainable agriculture	5	14	04	18	01	01	02	20	June
04.08.07 to	Motivation techniques for									
08.08.07	establishment of SHG in rural sector	3	ı	15	15	-	05	05	20	February
05.09.07 to	Modern techniques of cultivating PSM									August/
11.09.07	in commercial scale (2 no.)	5	16	16	32	03	05	08	40	September
01.07.07 to	Training or utilization of home and									
10.07.07	agricultural waste	10	14	-	14	01	-	01	15	July
29.08.07 to	Mushroom spawn production technique									
04.09.07		07	8	2	10	ı	-	-	10	August
22.05.07 to	Entrepreneurship development through									
25.05.07	Agro Processing Units (APUs) in	04	17	-	17	03	-	03	20	May
	production catchment									
01.01.07 to	Self employment through IFS model									
12.01.07	by adoption of micro enterprises	12	07	02	09	01	-	01	10	
27.12.06 to	Mushroom spawn production									
31.12.06	techniques	5	07	_	07	03	-	03	10	

## **INSURANCE**

Date	Title	Duration	M	F	T	M	F	T	Total	
07.05.07 to	Improved spawn and mushroom culture									
08.05.07	techniques	3	10	-	10	ı	ı	-	10	June
02.08.07 to	Feed back mechanism in training									
03.08.07	programme	2	08	ı	08	02	ı	02	10	August
02.12.06 to	Leadership & Entrepreneurship									
03.12.07	development	2	10	1	10	1	1	-	10	

# 3.4 Extension Activities (Including activities of FLD Programmes) Extension activities

Nature of Extension	No. of		Farmers Extension Offic		icials	Total				
Activity	activities	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	17	324	56	380	30	02	32	354	58	412
Kisan Mela	06	367	281	648	56	21	77	423	302	725
Kisan Ghosthi										
Exhibition										
Film Show	28	583	233	816	09	06	15	592	239	831
Method	26		corded	I	I					
Demonstrations										
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	01	23	02	25	06	01	07	29	03	32
Group meetings	13	186	33	213	03	03	06	189	36	225
Lectures delivered as	As and when no	eeded	I.							
resource persons										
Newspaper coverage	10	MASS	MEDIA		I.					
Radio talks	14		MASS MEDIA							
TV talks	01		MEDIA							
Popular articles	-									
Extension Literature	06	Not re	Not recorded							
Advisory Services			Routine process (not recorded)							
Scientific visit to	185	366	21	387	_		_	366	21	387
farmers field										
Farmers visit to KVK	_	479	19	498	27	09	36	506	28	534
Diagnostic visits		+	corded	.,,						
Exposure visits	03	26	08	34	-	-	_	26	08	34
Ex-trainees	03	109	_	109	_	_	_	109	_	109
Sammelan										
Soil health Camp	-	_	_	_	_	_	_	=	_	_
Animal Health Camp	_	-	-	_	_	_	_	_	_	_
Agri mobile clinic	-	_	-	-	-	_	-	-	_	_
Soil test campaigns	03	Not re	corded	I	I					
Farm Science Club	04	48	02	50	-	_	_	48	02	50
Conveners meet										
Self Help Group	07	Not re	corded	I	I					
Conveners meetings										
Mahila Mandals	-	_	-	_	_	_	-	-	-	-
Conveners meetings										
Celebration of	08	218	63	281	28	02	30	246	65	311
important days										
(specify)										
Interface with farmers	09	245	22	267	06	-	06	251	22	273
scientist										
Publication of	02	2500 Numbers i.e. Two issues								
Magazine (Krishiree)										
Total	344	2974	740	3714	165	44	209	3139	784	3923

## 3.5 production and supply of Technological products

## **SEED MATERIALS**

Sl. No.	Сгор	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Paddy	Swarna, CR- 1018,Pooja, Khandagiri	148.6	1,63,460	OSSC ltd, Govt. Organisation & also provided to farmers
OILSEEDS	-	_	-	-	-
PULSES	-	_	-	-	-
VEGETABLES	Brinjal, Papaya, Tomato, Poi, Gourds	-	0.42	400	NA

NA- Not available (Public sale)

## **SUMMARY**

Slno	Crop	Quantity (qtl)	Value (Rs)	Provided to No.of
				Farmers
1	CEREALS	148.06	163460	Distributed by OSSC ltd
				KVK& line dept
2	OILSEEDS	-	-	-
3	PULSES	-	-	-
4.	VEGETABLES	0.42	400	-
5.	FLOWER CROPS	-	-	-
6.	OTHERS	-	-	-
	TOTAL	148.48	163860	-

### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers	
FRUITS	Papaya,	Co -1, FS-1	900	2700	226	
	Drum stick	PKM-1	900	2700	220	
VEGETABLES	Chilli	Utkal Ava,				
	Tomato	BT-10	7490	1498	NA	
	Brinjal,	BB-45-C				
	-					
FOREST	A. Manjium	A.	1000	3000	11	
SPECIES	Ü	Mangium				
<b>ORNAMENTAL</b>	Rose, seasonal	_	450	400	NA	
CROPS						
PLANTATION	-	_	-	-	-	
CROPS						
MEDICINAL	Aloevera, Brahmi	-	90	240	08	
PLANT						
Others (specify)						

#### **SUMMARY**

Slno	Crop	Quantity (Nos)	Value (Rs)	Provided to No.of
				Farmers
1	FRUITS	900	2700	226
2	VEGETABLES	7490	1498	NA
3	SPICES	•	-	-
4	FOREST SPECIES	1000	3000	-
5	ORNAMENTAL CROPS	•	450	NA
6	PLANTATION CROPS	•	-	-
7	OTHERS	90	240	08
	TOTAL	9480	7888	-

## **BIO PRODUCTS**

Sl. No.	Product	Species	Qua	ntity	Value	Provided
	Name		No	(kg)	( <b>Rs.</b> )	to No. of
						Farmers
BIOAGENTS	-	-	-	-	-	-
1						
<b>BIOFERTILIZERS</b>	Vermicompost					
1				120	720	06
<b>BIO PESTICIDES</b>	-	-	-	-	-	
1						

			SUMMAR	RY						
Slno	Product Name	Species	Quantity		Species Quantity		Species Quantity Value (Rs)		Value (Rs)	Provided to
			No	(Kg)		No. of Farmers				
1	BIOAGENTS	-	-	-	-	-				
2	BIO FERTILIZER	-	-	120	720	06				
3	BIO PESTICIDE	-	-	-	720	06				
TOTAL										

## LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value	Provided to No. of
			(Nos	Kgs	( <b>Rs.</b> )	Farmers
Cattle	-	-	-	-	-	-
SHEEP AND	-	-	-	-	-	-
GOAT						
POULTRY	Colour Bird	Banaraja	100	-	1900	17
<b>FISHERIES</b>	Ornamental	Molly&	60	-	120	04
		Guppy				
HONEY BEE	Honey bee	A. indica	02		400	02
COLONEY						

	SUMMARY									
Slno	Type	Breed		Quantity	Value (Rs)	Provided to				
			Nos	Kgs		No of farmers				
1	CATTLE	-	-	-	-	<del> </del> -				
2	SHEEP & GOAT	-	-	-	-	-				
3	POULTRY	Banaraja	100	-	1900	17				
4	FISHERIES	Molly & guppy	60	-	120	04				
5	OTHERS	A.indica	02	-	400	02				
	TOTAL		162	-	2420	22				

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

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

- i. Pratikhya: A promising medium to low land paddy variety
- ii. Hon.ble DDG (Extension Education), ICAR: Visit to KVK, Jagatsinghpur

(B) Literature developed/published

Item	Title	Authors name	Numb er	Budget head*from its
Research papers	1) Pratikshya –A promising Paddy variety in coastal region 2) Some observations on ETL of pest complex in paddy & Varietal performance 3) Constraints faced by mushroom growers	KVK Source		Published in Indian Farming (special issue july 07) Journal of extension education OUAT
Technical reports	Annual report (2006-07), Action Plan 2007-08, EFC for XI plan proposal 2007, Scientific Audit Report 2007, PRA Study report 2007, Seasonal oilseed pulse report 2007	-	-	Contingency
News letters	Pratikshya found promising Hon'ble DDG visit to KVK	KVK Source		Dean Extension Education OUAT
Technical				
Popular articles	<ol> <li>Mushroom cultivation</li> <li>Care of coconut orchard</li> <li>Summer green gram</li> <li>Self held group</li> </ol>	KVK Scientis ts		KVK Contingency

Extension literature	<ol> <li>Paddy straw mushroom cultivation</li> <li>Agro environment – keep safe</li> <li>Scope &amp; potential of growing cash crop in coastal orissa</li> <li>Scientific ways of growing arecanut</li> <li>Crop strategy after flood</li> <li>Care of day old chicks of poultries</li> </ol>	KVK Scientis ts	
Others (Pl.Specify)	How to get more from mushroom Agri base magazine Krishishree	KVK Scientist s	Revolving fund
TOTAL	23		

#### (C) Details of Electronic Media Produced

Slno	Type of media	Title of the Programme	Number
	(CD/VCD/DVD/		
	Audio-Cassette )		
1	CD/DVD	Mushroom cultivation	01
2	-do-	Value addition in siffon saree	01
3	-do-	SAC Proceeding	01
4	-do-	Kissan fair	01
5	cd	Magur culture	01

## 3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

#### PRATIKSHYA: A PROMISING MID LOW LAND PADDY VARIETY- A CASE STUDY

#### **Background:**

Out of total cultivated area of 1,05,700 ha in the district of Jagatsinghpur, 91,000 ha is being taken exclusively as paddy area. From this total paddy area a sizable area of 46,027 ha is under low land where people usually prefer to grow their traditional varieties.

Most of the farmers prefer to raise high yielding varieties of medium duration in medium to low land condition which is confined to more than 40,000 ha. Farmers of the district are in practice to cultivate "Swarna" and CR-1018 in the said ecological conditions. But susceptibility of Swarna to sheath blight and sheath rot & coarse grain of CR-1018 is a matter of concern for the growers and they are in a thought to replace with a suitable variety with higher productivity. Keeping this in view through a study KVK has made an attempt to substitute some of the medium duration varieties in the mid-low lands of adopted areas with a suitable variety during Kharif 05.

#### **Details of technology:**

Introduction of variety Pratikshya (ORS 201-5, IET15191) as a substitute of Swarna is suitable for irrigated and rainfed medium lands. It is a semi dwarf (105 cm) variety with stout stem. It possesses longer panicle length, intermediate panicle number high grain number (156

fertile grains/panicle), slender grains with light golden hull and white kernel. It matures within 142 days with an average yield level of 48.48 q/ha and potential yield of 72.42 q/ha. It is resistant to lodging, shattering with easy threshability. It is suitable for mid-low lands and late sown conditions with good cooking and eating quality. It is resistant to brown spot disease and pests like GM-1, leaf folder and stem borer. It is moderately resistant to blast, sheath rot, sheath blight, BPH and WBPH. This variety exhibited wide adaptibility and found promising in supplementing swarna and surendra in rainfed and irrigated medium lands. It has been recommended for release in Orissa and West Bengal by virtue of its high yield, greater stability, multiple resistance to pest and diseases and superior grain quality.

#### **Extension approach:**

## Various approaches made by the scientists of KVK for introduction of this newly released variety are as follows:

- 1. Training
- 2. On farm testing
- 3. Frontline demonstration
- 4. Advisory services to farmers
- 5. Exposure visit to KVK instructional farm
- 6. Leaflet ad bulletins
- 7. Radio talk & TV programme

#### **Technology transferred:**

For varietal substitution, different extension approaches were made and farmers interested group were identified for taking on farm testing as well as field demonstration of the variety during 2005-06 to 2006-07. Farmers who felt it risky to raise Swarna for its disease susceptibility in spite of getting a good yield adopt the variety "Pratikshya" within a short period by KVK mandatory activities. Another speciality of "Pratikshya" that attracted the growers that it could be taken in late sown conditions in both rainfed and irrigated medium lands.

Out of contact farmers of KVK adoptive villages, randomly five farmers were selected for the study & their adoption level is mentioned below:

#### **Adoption technology:**

Farmers name &	Cultivation	of Pratikshya in m		
address	Total area (hac)	Area under Pratikshya (hac)	Substituti on (%)	Farmers reaction
Adwaita Rout Mahamadpur Tirtol (F1)	2.2	1.8	81	It gives higher yield than any other variety. It has resistance to disease and pest.
Ashok Kumar Behera	3.2	1.5	47	It does well in mid-low land

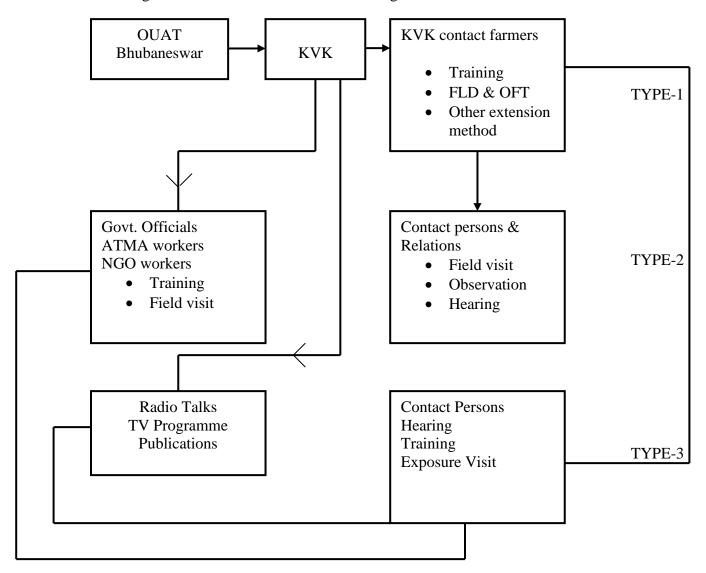
Nimakana				even in late sown condition.
Tirtol (F2)				
Bijoy Kumar Sahoo	2.4	1.9	79	It has good cooking and
Sannimula				eating quality.
Tirtol (F3)				
Jhadeswar Jena	0.8	0.8	100	It is resistant to shattering and
Sannimula				lodging.
Tirtol (F4)				
Rabi Swain	1.2	0.9	75	It is a good yielder.
Sannimula				It has easy thressability.
Tirtol (F5)				

## **Technological Intervention:**

User	Before		After	
	Variety	Yield (q/ha)	Variety	Yield (q/ha)
F1		40.3	4	44.8
F2	<b>∀</b>	41.2	HX/	44.0
F3	SWARN	38.6	TIKSH	40.2
F4	SW	40.3	PRAT	42.7
F5		39.1	<u>a</u>	42.9

#### Pathways of technology dissemination:

Since 2004-05 when the variety is introduced through different extension approaches, it disseminated from contact to noncontact farmers in a short period of time. The model pathway of this technological dissemination is mentioned through a flow chart below.





During the study Mr. Adwaita Rout of Mahamadpur is found very progressive in adoption of the variety substituting 30% of his paddy area. He grew the variety in 1.8 ha of area and got the highest yield with a productivity of 44.8 q/ha. Mr. Rout for his innovativeness in growing the newly released variety and harvesting a good crop is awarded in "Krishak Sampark Mela" in the district.

## **Success Story**

### INNOVATIVENESS MADE HIM PROGRESSIVE Success story of Sri Nrusingha Charan Behera, growing Vegetable: A profit making enterprise.

......

#### 1) Name of the enterprise/crop/practice:

Growing vegetables particularly Brinjal, bitter gourd, cowpea and cole crops

#### 2) Name of the farmer with address:

Name-Sri Nrusinga Charan Behera

Village- Teramanpur, Kotasahi

Gp-Sailo

Po-Rahama

**PS-Tirtol** 

Block-Kujanga

Dist-Jagatsinghpur

#### 3) Initial Status:

Jagatsinghpur district has 94445 Hectare of cultivable land. The main crops grown are rice, green gram, black gram, sugarcane, groundnut, vegetables etc. Vegetables are grown in 20440 hectare of land. The main vegetables grown in the district are cole crops, cucurbits, beans, peas, solanaceous crops etc.

Teramanpur a village of Kujang block is about 35 km from the district headquarter, Jagatsinghpur .It is a small village with a population of 30 families, mostly marginal to small farmers. The village is situated on the banks of river Mahanadi. There is always a threat for floods in these areas during the rainy season. About 10 hectare of land in the area is under vegetable cultivation

Mr.N.C.Behera village- Teramanpur was a very sporadic vegetable grower two years back. He had 3 acres of fertile land, suitable for growing vegetables. He was growing only tomato and brinjal in these areas using locally available planting material and traditional methods of cultivation. He was not getting much return due to severe problem of fruit shoot borer in brinjal and bacterial wilting in both the crops. He was depending on a million well (bamphi) for the purpose of irrigation.

#### 4) KVK Intervention:

Since 2005, Mr. Behera came in touch with the KVK scientist through one Farmer-Scientist interaction programme. Keeping in tune to his interest for growing Cole crops, Brinjal,Bittergourd & cowpea, he was intervened with one FLD for testing wilt resistant varieties of brinjal. He was also made aware on different aspect of vegetable cultivation by imparting both on and off campus training programme on topics like: 1. selecting varieties for cultivation of vegetable crops. 2. Cropping pattern in vegetable cultivation.

3. Application of micronutrients in vegetable crops. 4. IPM in vegetable crops.

#### 5) Innovative Extension Approach:

Krishi Vigyan Kendra, Jagatsinghpur has exposed the farmers to extension approaches like Personal contact, interactive lecturate, interactive demonstration, CD show and field days. Necessary leaflets on the concern matter were provided to the farmers. Linkage was facilitated with NGO's and grass root extension workers for immediate help.

#### 6) Details of the technology:

#### I. LAND PRERATATION

Summer ploughing was done to expose the land to sun to destroy all the pathogen in the field.

#### II. MANURING & FERTILISER APPLICATION

Basal dose of fertiliser for different crops was applied in the field.

#### III. SELECTION OF VARIETIES

Varieties were selected taking into consideration different aspect for cultivation like marketability, disease pest infestation and yield.

The varieties selected for different crops are:

Cauliflower-contessa, white cashmere

Cabbage-Konark

Cowpea-Navratna

Bittergourd-Coimbatore-long

Brinjal-Hazari, BB45-C, local black purple

Okra-BO-2, Mahyco Hybrids

#### IV. PLANTING WEEDING AND INTERCULTURE

These operations was carried out as per routine schedule

#### V. SPRAYING OF MICRONUTRIENTS

Tracel-1 was sprayed @5 g per liter for flower retention and fruiting. For cauliflower and cabbage Tracel-2 was sprayed to avoid boron and molybdenum deficiency.

#### VI. DISEASE PROPHYLAXIS

A prophylactic spray of Monocrotophos and Endosulphan was given separately at 15 days interval to control pest infestation. Bavistin was also sprayed to check any fungal attack.

#### 7) Adoption of technology and benefit to the farmer:

He picked up the idea of the scientists for growing F-1 hybrids of different vegetables. IPM measures in vegetable crops as well as micronutrient application were two major additions to his knowledge and practice of farming. Mr.Nrusinga Charan Behera became very sound in his socio economic status after getting remarkable return from his farm produce. Some physical achievements he has within these three years of time are as follows.

	2004	2007
Vegetable area	3.0 acre	5.5 acres
<u>Irrigation source</u>		
Million well	1 no	2 nos
LI Point with		
Pump house.	Nil	2 nos
Sprinkler irrigation set	Nil	1 Set

He has also achieved as regards to his financial status by getting very alluring price for his produce as the choice of crops, grown by him are very remunerative. His expenditure and gross annual return is placed as follows.

#### Expenditure and out come strategy of Sri N.Behera in the year 2006

Total area under vegetables = 5.5 acres

Slno	Crop	Area taken	Expenditure	Gross return
			made during	
			the year	
1	Cauliflower & Cabbage	1.5	25,000	85,000
2	Bitter gourd	0.5	5,000	17,500
3	Brinjal	1.0	12,000	50,000
4	Cowpea	1.0	10,000	26,000
5	Okra	1.5	18,000	56,000
	Total	5.5	70,000	2,34,500

Sri Behera got gross return of Rs 2,34,000/- out of his cost of cultivation of Rs 70,000/- ultimately giving him a net profit of Rs 1,64,500/- per year.

#### 8) Farmers reaction and feedback:

- a) Assured irrigation through his 2 nos of L1 points could make it possible to grow vegetable extensively in his field.
- b) Regular growing tomato in same field reduces yield.
- c) Brinjal variety BB45C has no market demand. This variety is susceptible to powdery mildew which is not found in Hazari and local black purple variety.
- d) White Kasmere variety of cauliflower gives better yield.
- e) Cauliflower gives higher return then any other vegetable.
- f) Little leaf and leaf blight creates problem for cultivation of bittergourd and reduces yield.
- g) Bacterial wilt and fruitshoot borer is the major problem in growing brinjals.
- h) Okra variety BO-2 is tolerant to YMV than Mahyco varieties.
- i) IPM measures reduces pest and disease load in vegetables

#### 10) Extent of diffusion effect of the newly adopted technology:

i) One field day programme organized by KVK at Teramanpur, with a gathering of the vegetable growers of kotasahi and Baliapada of Sailo panchayat was a turning point in the

process of diffusion. Sri N.Behera also tried motivating in his personal level to the growers of near by villages to raise FI hybrids on commercial basis which will be helpful in easy marketing. The newly adopted technologies which are in the process of diffusion are like.

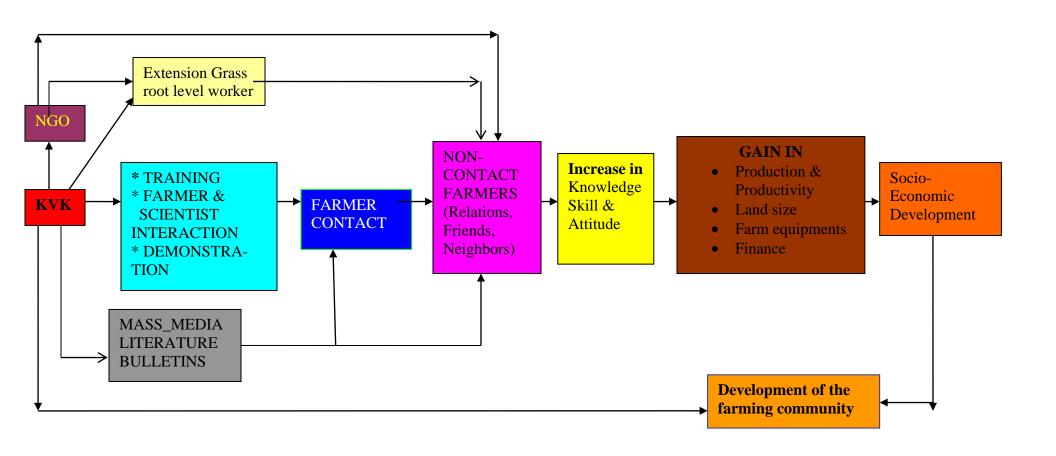
- 1) Use of F1 hybrids of cauliflower and cabbage and C-long variety of bitter gourd.
- 2) IPM measures in vegetables.
- 3) Soil application of neem oil cake in brinjal against fruit shoot borer.
- 4) Sprinkler system of irrigation.

Micronutrient application to cauliflower & cabbage

#### 11) Follow up action:

- 1) Scientists of KVK now taking steps for varietal replacement and imposing the growers to go for university released varieties of vegetables for both yield and disease pest resistance.
- 2) Crop rotation with legumes as well as change of plots for solanaceous vegetables from season to season.
- 3) IPM measures particularly use of pheromone traps, neem-cake and neem oil spray are being emphasized.
- 4) Group approach in growing vegetables for smooth commercialization.
- 5) Reducing chemical fertilisers and addition of sufficient organic manures, biofertilisers as well as use of micronutrients are taken care of for the succeeding seasons.

## **MODELS OF TECHNOLOGY DISSEMINATION:**



## **Success Story**

Name of the enterprise/practice/technology: Fish Farming Name and address of the farmer: Name-Sri Rajesh Swain

Po-Tradapada Via-Jagatsinghpur Gp-Taradapada Bloci-Jagatsinghpur

#### **Status of technology adoption:**

Rajesh swain is a young fish farmer who had started his work in the form of fingerlings production by only rearing. He was not only financially weak but also lacking in technical knowledge to enrich his enterprise. All at once he came in contact with the scientists of KVK in one farmers-scientists interaction Programme where he could expose himself as one interested fish farmer. He was found as very much progressive and innovative in adopting modern technology in fish seed production and fish farming. Keeping his interest in the above subject he was advised to do some activities like brood stock management, fish seed production, seed raising technology integrated fish farming and ornamental fish farming. To develop these activities he was also advised to take the financial help from state bank of India through district fishery office, jagatsinghpur

#### Physical achievement during 2005-06:

He had only 0.1 Ac of seed raising pond.

#### **Achievement during 2005-06:**

Slno	Name of the activi	<b>Expenditure Rs</b>	Income	Profit
1	Seed raising	3000	8000	5000
2	Paddy cultivation	30000	48000	18000
			Total	23000

#### KVK intervention from 2006 jan. onwards:

#### A. Training

Slno	Title
1	Techniques in composite fish farming
2	Seed production and raising techniques
3	Integrated fish farming
4	Ornamental fish farming
5	Magur culture technology

#### **B.** Extension activities:

- i. Exposure visit to CIFA, Kausalyaganga CRRI, cuttack, fish farm, krishranandapur
- **ii.** Field days
- iii. CD show
- **iv.** Literatures

#### C. Interactive demonstration

#### Knowledge and skill gained from KVK intervention

- i. Improved skill on fingerlings production
- ii. Skill on beg feeding
- iii. Knowledge on selection of proper brood stock
- iv. Skill on feed preparation
- v. Skill on ornamental fish breeding and rearing of young ones
- vi. Knowledge on integrated fish farming
- vii. Knowledge on desi magur culture techniques

#### His reaction and feed back:

- a. Selection of brooder is quite necessary to get more production of young ones.
- b. Feed formulation and preparation is essential to get healthy and more production of fish and also cost benefit
- c. By the introduction of bag feeding all layers of fish got right amount of feed for their growth
- d. Necessary aeration is available by the use of basket aerator
- e. Hormone treatment is every effective for rearing of fish
- f. Paddy cum Pisciculture is more profitable
- g. Techniques in rearing and feeding helped to get more production of young ones of ornamental fish
- h. Desimagur culture is more profitable
- i. Composite fish farming multiplies the production

#### **Conclusion**

Rajesh swain is a progressive farmer selected by KVK, Jagatsinghpur and DFO, Jagatsinghpur. He progressed very much in one year in fish farming and OUAT, Bhubaneswar honored this person in farmers day celebration this year.

## 3.8. Give details of innovative methodology or innovative technology of transfer of technology developed and used during the year.

1. Transfer of technology through progressive farmers in a particular vegetable as a trainer among other vegetable grower.

#### Purpose:

- a. Increase motivation ability
- b. Exchange idea among farmers
- c. Collect information regarding inputs and techno
- d. Confidence built- up.

- 2. Published magazine "Krishishree"-a half yearly magazine in a simple and lucid language with up to date information purpose-easy to read and accept.
- 3. Acted role play with one youth club in agriculture and allied sector during Hon'ble DDG's visit to KVK Jagatsinghpur.

Purpose- Create awareness and collect information.

- 4. Conducted PRA, GD, individual contact and other meetings during off time lean period of farmers. Purpose- More participatory/involvement.
- 5. Development photo gallery in KVK.

**Purpose**- Clear concept about KVK mandatory activities built up confidence among them regarding feasibility of technology in his/her farming situation.

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

- 1. Preparation of Panchagabya and spraying in pointed gourd for promoting growth, flowering and reducing disease incidence.
- 2. Preparation of garlic & dry chilli paste solution for spraying in cereals & vegetables for controlling borer paste.

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

- Identification of courses for farmers/farm women- On the basis of PRA
- Rural vouth On the basis of PRA
- Inservice personnel On the basis of need assessment & PRA

#### 3.11. Field activities

- i. Number of village adopted 05
- ii. No of farm families selected -386
- iii. No of survey/PRA conducted –PRA conducted & report submitted.

#### 3.12. Activities of Soil and water Testing Laboratory

Status of establishment of Lab: NOT YET ESTABLISHED

#### **4.0 IMPACT**

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

Name of specific technology/skill transferred	No of participants	% Of adoption	Change in income (Rs)	
			Before (Rs./Unit)	After (Rs./Unit)
IWC in upland paddy	40	80	12000	15500
Balance fertilizer in green gram	25	76	6000	9500
Gypsum application in G.Nut	26	100	43000	45200
Introduction of PU 30 variety in Black gram	12	83.33	7500	8900
Tuber treatment in potato	20	95	92500	105000
Composite fish farming	28	50	-	-
Mushroom cultivation	50	70	40 / beg	55 / bed
Application of Bordeaux mixture in bevel vine	20	90	304000	320000
Entrepreneurship development throug nursery	20	40	-	4000
Appliqué work for women	20	60	1500	4500
Use of hand operated straw cutter	10	100	-	Drudgery reduction & labour saving
Rearing of bonaraja, Poultry in	6	100	-	5000
backyard				
Propagation in mango	10	70	-	Earn rupees 6000 per year as a skill person horticulture & private nursery sector

## **4.2.** Cases of large-scale adoption (Please furnish detailed information for each case)

#### A) Adoption & spread of paddy variety – Pratikshya

Pratikshya a newly released OUAT paddy variety of 142 days duration was taken in On Farm Testing Programme at KVK, Jagatsinghpur during 2005. Profuse tillering, multiple resistance to disease and pest and good yield in medium to low land condition not only attracted the farmers but also drew the attention of agricultural line department and extension workers, as a result of which the variety was taken in demonstration under farmers field school Programme in 8 blocks of the district under ATMA Programme in 2006-07. the variety was also grown in the instructional farm of KVK as well as OFT programmes by KVK. During kharif 2006, the seeds were supplied to Jajpur, Kendrapara, Banki,

Athagarh and Cuttack and was successfully demonstrated which proved it potentiality of dissemination. This year i.e. during kharif 2007, the variety is grown in more than 80 hac of area particularly in Tirtol, Ershama, Kujanga and Raghunathpur blocks of the district. Besides farmers of KVK adopted villages also have grown the variety in its FLD Programme.

#### B) Popularization of mushroom cultivation

During 2005-06, the year of inception of KVK, scientists of KVK, Jagatsinghpur identified only one mushroom grower namely Kabita Das of Kantia, in Ershama block of the district who has been growing mushroom commercially since 2003. Fifty numbers of interested youth and farmers from four blocks viz. Ershama, Tirtol, Jagatsinghpur & Kujanga were trained by the KVK for growing both paddy straw and oyster mushroom. Group discussion, exposure visit, interface with scientists, supply of necessary literatures and interactive demonstrations were the extension methods imparted to the trainees by September,2007 with an assured information on technical support and availability of inputs, out of this fifty, 11 youth and SGHs have taken up the enterprise on commercial basis within 2 years. More than 90 farmers are growing mushroom for their home consumption with technical advice of KVK and from dissemination of the said technology.

Side by side, two spawn production units are developed in Tirtol block due to the farmers demand on spawn, one of which is developed by the technical support of the KVK scientists Sanra, Tirtol.

KVK, Jagatsinghpur also has submitted a proposal for construction of a spawn cum mushroom demonstration unit during the 11<sup>th</sup> plan.

#### 4.3. Details of impact analysis of KVK activities carried out during the reporting period

Technology / skill transferred	No of participants	% of adoption
1. INM in low land paddy	20	80
2. Improved package & practice of	20	70
upland paddy		
3. Cultivation of scented rice	20	40
4. Gypsum application in G.Nut	13	100
5. Maintenance of coconut orchard	20	70
6. Use of biopesticide	20	40
7. IDM in betelvine	20	80
8. Control of stemborer in rice	20	100

9. Paddy straw mushroom cultivation	20	50
10. Composite fish farming	20	40
11. Nutritional gardening	20	70
12. Vermicompost	20	30
13. Seed treatment in vegetable	20	70
14. Rhizobium inoculation in blackgram	12	80
15. Storage of grain by use of ITK	20	80

## **5.0 LINKAGES**

## 5.1. Functional linkage with different organizations

SLNO	Name of the organization	Linkage for	Activities conducted
1	State Govt Departments (Agril, Hort, soil conservation, Forestry, pisciculture & Animal Husbandry	<ul> <li>Sponsored training programme.</li> <li>Training of extension functionaries.</li> <li>Farmers – Scientists interaction.</li> <li>Inputs sale of procurement.</li> </ul>	<ul> <li>Training on Isopom,         Farmers field school,         seed village         programme, etc.</li> <li>Training on         pisciculture,         preservation of fruits &amp;         vegetables, orchard         development,         management of soil,         entrepreneurship         development.</li> <li>FLD on crop science,         horticulture &amp;         pisciculture.</li> <li>Other activities like         farmer's fair,         exhibition, group         discussion, action plan         formulation, diagnostic         visit, field day,         farmers- Scientists         interaction.</li> </ul>
2	DDA, Cuttack	Training programme.	<ul><li>Training on seed production technology.</li><li>Preparation of</li></ul>
		Procurement of	programmes for kharif

		seeds	& rabi.  Procurement of seeds
3	ATMA (Agricultural Technology Management Agency Jagatsinghpur)	<ul> <li>Preparation of SREP</li> <li>Other extension activities</li> </ul>	<ul> <li>Conducted &amp; training programme of crop Sci, horticulture, Plant Protection, Extension, Fishery Sci</li> <li>Capacity building etc.</li> <li>Interactive demonstration on paddy, mushroom &amp; vermicompost.</li> <li>Conducted OFT on Magur culture</li> <li>Conducted PRA exercise</li> <li>Conducted &amp; participated other activities like exhibition, farmers fair, field day, workshop.</li> <li>Participated preparation of programme planning</li> </ul>
4	RPRC, (Regional Plant Resource Centre), Bhubaneswar	❖ Training	<ul> <li>❖ Attained different training programmes &amp; procured seedling &amp; saplings</li> </ul>
5	CIFA, Bhubaneswar	<ul><li>HRD</li><li>Inputs</li><li>procurement</li></ul>	<ul> <li>Collected information</li> <li>&amp; innovative</li> <li>technology</li> <li>Purchase fingerlings.</li> </ul>
6	CRRI, Cuttack	Training, workshop	Attend training programme, workshop conducted by CRRI,
		Inputs procurement	Cuttack

			& purchased paddy seeds.
7	DRDA, Jagatsinghpur	<b>❖</b> Training	Conducted different training programmes & prepared projects like spawn production centre, vermicompost.
8	All India Radio (AIR), Cuttack	<ul> <li>Distribution of information and technologies</li> <li>Member of SAC</li> </ul>	Broadcasted different agricultural & allied technologies.
9	Mahila Mandal (SHGs)	<ul><li>Training</li><li>Demonstration</li></ul>	<ul> <li>Conducted training</li> <li>Interactive         demonstration group         discussion &amp;         awareness camp</li> </ul>
10	Farmers youth clubs	Training and demonstrations.	<ul> <li>Development group dynamics.</li> <li>Developed entrepreneurship through training &amp; FLD.</li> </ul>
11	NGOs viz, MANAV, NOW,	<ul><li>HRD</li><li>Inputs supply</li></ul>	Conducted HRD for NGO functionaries.
12	Media of news papers	Publication	<ul><li>Published latest technologies.</li></ul>
13	Seed certification office (SCO), cuttack.	<ul><li>Training</li><li>Certification of seeds</li></ul>	<ul> <li>Participatory         <ul> <li>approached in training</li> <li>seed production</li> <li>programmes.</li> </ul> </li> </ul>
14	NABARD, Jagatsinghpur	<ul><li>Training</li><li>Awareness camp</li></ul>	<ul> <li>Jointly conducted training programmes collaborative awareness</li> </ul>

## **5.2.** List special Programmes undertaken by the KVK, which have been financed by state Govt/Other Agencies

Name of the scheme	Date/month of	Funding agency	Amount (Rs)
	initiation		
Development of magur	February	ATMA, Jagatsinghpur	20000
culture			
Demonstration on organic	January	RCOF, Bhubaneswar	27000
farming			

#### 5.3. Details of linkage with ATMA

a) Is ATMA implemented in your district

Yes

Slno	Programme	Nature of linkage	Remarks
1	Development of technological	-Implementation of the	Communicated the
	Package in Desi magur culture	project	techniques almost all
		-Technical guidance	farmers of Jagatsinghpur
		-Conducting training	district and outsiders.
		Programme	

### 5.5. Nature of linkage with National Fisheries Development Board

Slno	Programme	Nature of linkage	Remarks
1	Training,	-Implementation of the	The project has been submitted to Hon'ble DDG
	workshop	Project	fisheries for sanction of amount necessary for
	_	-Technical guidance for	conducting the training Programme.
		Forward activities	

#### 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

#### **6.1 Performance of demonstration units (other than instructional farm)**

Demo Year of		Details of production		Amount (Rs)					
Slno	Unit	Estt	Area	Variety	Produce	Qty	Cost of Inputs	Gross Income	Remarks
-	_	-	-	-	_	-	-	_	-

## 6.2. Performance of instructional farm (Crops ) including seed production

Name of	Date of	Date of	1)	Details	s of production		Amount (Rs)		Remarks
the crop	sowing	harvest	(ha)	Variety	Type of	Qty	Cost of	Gross	
			Area		Produce		Inputs	income	
			Ą						
Cereals									
Paddy	07.08.06	19.12.06	1.0	Pooja	FS	40.2	65,000	1,48,000	Sale proceed
	21.07.06	09.12.06	1.0	Swarna	FS	40.0		+ Stock	+ stock in hand
	22.07.06	24.12.06	1.0	CR-1018	FS	36.9		in hand	
	08.08.06	07.11.06	0.5	Khandagiri	FS	12.0			
	04.08.06	22.12.06	0.3	Pratiskhya	TL	10.0			
	06.08.06	04.12.06	0.2	Naveen	CS	07.5			

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

Slno	Name of the product	Qty	Amount (Rs)		Remarks
			Cost of inputs	Gross income	
1	Vermicompost	120 qtl	100	720	-

### **6.4.** Performance of instructional farm (livestock and fisheries production)

Slno	Name of the	Deta	ils of prod	uction	Amount (Rs)		Remarks
	animal/bird/aquatics	Breed	Type of	Qty	Cost of	Gross	
			Produce		Inputs	Income	
1	Colour bird (Poultry)	Banaraja	Egg or	100 qtl	2500	4400	_
			Meat				
2	Ornamental fish	Guppymolly	Fish	60 qtl	-	120	_
3	Honey bee	A.indica	Colony	2	-	400	-

#### 6.5. Utilization of hostel facilities

Accommodation available (No of beds): UNDER FINISHING STAGE

#### 7. FINANCIAL PERFORMANCE

#### 7.1. Details of KVK Bank account

Bank account	Name of the bank	Location	Account Number
With host Institute	SBI, OUAT	Bhubaneswar	-
With KVK	SBI,Jagatsinghpur	Jagatsinghpur	11297400655

### 7.2 Utilization of funds under FLD on Oilseed (Rs in Lakhs)

Item Released by ICA		Expenditure		Unspent balance	
	Kharif 2006	Rabi 2006-07	Kharif 2006	Rabi 2006-07	as on 1 <sup>st</sup> April 2007
Inputs	-	12250	-	12250	-
Extension activities	-	1750	-	1050	-
TA/DA/POL etc	-	1750	-	1750	105
TOTAL	-	15750	-	15050	150
				Rs.15050 released by OUAT, Bhubaneswar	

#### 7.3 Utilization of funds under FLD on Pulses (Rs.in Lakhs)

Item	Release	d by ICAR	Ex	xpenditure	Unspent balance as on 1st April 2007	
	Kharif 2006	Rabi 2006-07	Kharif 2006	Rabi * 2006-07		
Inputs	-	-	-	18380	Nil	
Extension activities	-	-	-	2630		
TA/DA/POL etc	-	-	-	3930		
TOTAL				24940		

<sup>\*</sup> Expenditure made from contingency as per office order of ICAR.

### 7.4 Utilization of funds under FLD on cotton (Rs in Lakhs) NOT SANCTIONED

# $7.5\ Utilization\ of\ KVK\ funds\ during\ the\ year\ 2006-07\ and\ 2007-08\ (up\ to\ Sep.2007)\ \ (year\ wise\ separately)\ (current\ year\ and\ previous\ year)$

Slno	Particulars	Sanctioned	Released (2006-07)	Expenditure		
A. Re	A. Recurring Contingencies					
1	Pay & allowances	17,00,000	16,46,846	16,46,846		
2	Traveling allowances	50,000	50,000	50,000		
3	Contingencies	3,00,000	2,90,000	2,90,000		
A	Stationery, telephone, postage and other			35,062		
	expenditure on office running, publication of					
	Newsletter and library maintenance					
	(Purchase of News paper & Magazines)					
В	POL, repair of vehicles, tractor and			29,938		
	Equipment s					
С	Meals/refreshment for trainees (ceiling up to Rs.4			68,600		
	day/trainee by maintained)					
D	Training material (posters, charts, demonstration			35,333		
	material including chemicals					
	etc required for conducting the training)					
Е	Frontline demonstration except oilseeds and pulse			64,903		
	(minimum of 30 demonstration in a year)					
F	On farm testing (on need based, location specific			16,464		
	and newly generated information in the major					
	production systems of the area)					
G	Training of extension functionaries			13,600		
Н	Maintenance of buildings			-		
Ι	Establishment of soil, plant & water testing			-		
	laboratory					
J	Library			1,360		
	TOTAL (A)	20,50,000	19,86,846	19,868,46		

B. Non-Recurring Contingencies					
1	Works	46,50,000	45,37,594	45,37,594	
2	Equipments including SWTL & Furniture	1,50,000	1,49,927	1,49,927	
3	Vehicle (four wheeler/Two wheeler,	-	-	-	
	please specify)				
4	Library (purchase of assets like books	10,000	10,000	10,000	
	& Journals)				
TOTAL (B)		48,10,000	46,97,521	46,97,521	
C.RI	EVOLVING FUND	-	-	-	
	GRAND TOTAL (A+B+C)	68,60,000	66,84,367	66,84,367	

# $7.5\ Utilization\ of\ KVK\ funds\ during\ the\ year\ 2006-07\ and\ 2007-08\ (up\ to\ Sep.2007)\ \ (year\ wise\ separately)\ (current\ year\ and\ previous\ year)$

Slno	Particulars	Sanctioned	Released (2007-08)	Expenditure			
A. Re	A. Recurring Contingencies						
1	Pay & allowances	22,00000	Pay through Comptroller OUAT	11,22,851			
2	Traveling allowances	93,000	46,000	46,000			
3	Contingencies	5,60,000	2,74,300	2,74,3000			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News paper & Magazines)						
В	POL, repair of vehicles, tractor and Equipment s						
С	Meals/refreshment for trainees (ceiling up to Rs.40/ day/trainee by maintained)		2,74,300	2,74,300			
D	Training material (posters, charts, demonstration material including chemicals etc required for conducting the training)						
Е	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)						
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)						
G	Training of extension functionaries						
Н	Maintenance of buildings						
Ι	Establishment of soil, plant & water testing laboratory						
J	Library						
	TOTAL (A)		3,20,300	3,20,300			

B. Non-Recurring Contingencies					
1	Works	29,00,000	Expenditure made through		
			DPP, OUAT	Γ, Bhubaneswar	
2	Equipments including SWTL & Furniture	-			
3	Vehicle (four wheeler/Two wheeler,	-	-	-	
	Please specify)				
4	Library (purchase of assets like books	-	-	-	
	& Journals)				
	TOTAL (B)	29,00,000	-	-	
C.RI	EVOLVING FUND	-			
	GRAND TOTAL (A+B+C)	57,53,000	3,20,300	-	

#### 7.5 Status of revolving fund parenthesis( Rs in lakhs) for the three years

Year	Opening balance as on 1 <sup>st</sup> April	Income during The year	Expenditure during the year	Net balanced in hand as on 1 <sup>st</sup> April of each year *
April 2004 to	-	-	-	-
March 2005				
April 2005 to	-	-	1,05,632	43,400
March 2006				
April 2006 to	72,401	1,60,000	65,000	95,000
March 2007				

<sup>\*</sup> Including stock in hand and credit bill

#### 8.0 Please include information which has not been reflected above (write in detail)

#### 8.1 Constraints

#### a) Administrative:

- Construction of demonstration unit
- Causes of requirement of technical staffs like field man, VAWs etc for smooth mandatory works should be put forth in ICAR policy and Govt policy.

## b) Financial:

-Additional funds may be sanctioned for purchase of paddy reaper, power operated thresher and publication of magazine KVK news letter

## c) **Technical:**

- -Proposal for- i) Installation of soil testing laboratory
  - ii) Purchase of Motorcycle for smooth and easy conduct of field visit, fieldwork and other tours related to our extension activities

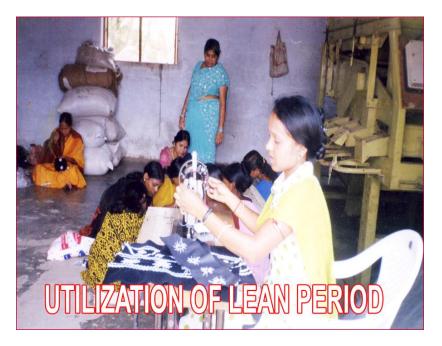
(Signature of Programme Coordinator)

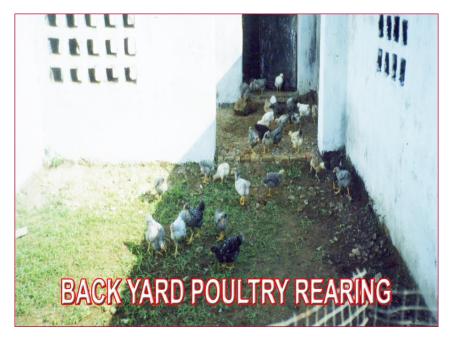










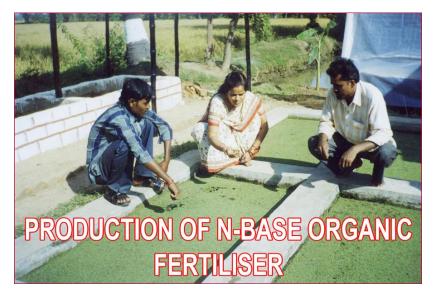
















NAVJOT : A RULING VARIETY IN COASTAL REGION









**BETELVINE GROWERS PREPARING BORDEUX MIXTURE FOR DISEASE CONTROL** 



**DUCK LUM PISCICULTURE** 



**HONEY BEE REARING SKILL** TRANSFERRED TO RURAL YOUTH