KRISHI VIGYAN KENDRA
KENDRAPARA

ANNUAL REPORT
2007-08

ORISSA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY,
BHUBANESWAR-751003

PROFORMA FOR ANNUAL REPORT

(1-4-2007 to 31-03-2008)

1. GENERAL INFORMATION ABOUT THE KVK

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

KVK	Postal Address with Pin code	Telephone			E mail
		STD	Office	FAX	
Kendrapara	At : Jajanga P.O: Kapaleswara Dist: Kendrapara Pin:754211, Orissa	06727	274962	Same	kvkkendrapara@rediffmail.com kendraparakvk@yahoo.co.in

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

Host Institute name	Postal Address with Pin code	Telephone			E mail
		STD	Office	FAX	
Orissa University of Agriculture & Technology	Vice-Chancellor, OUAT, Bhubaneswar-751003	0674	2392677	2391780	vcouat@rediffmail.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Lokanath Mahapatra(On leave)	-	-	-
Dr. Byomakesh Dash(I/C)	-	9437100431	-

1.4. Year of sanction: 1994

1.5. Staff Position (as on 31st March 2008)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/Others)
1	Programme Coordinator	Dr. L.N. Mahapatra	Programme Coordinator	Horticulture	12000-420-18300 (14,940)	4.9.2002	Permanent	Others
2	Subject Matter Specialist	Dr. (Mrs.) T. Pattnaik	SMS	Home Science	12000-420-18300 (15,360)	11.4.1997	Permanent	Others
3	Subject Matter Specialist	Dr. B.K Dash	SMS (I/C , P.C)	Pl. Protection	8000-275-13500 (13,575)	1.9.2005	Permanent	Others
4	Subject Matter Specialist	Sri S.K. Swain	SMS	Agronomy	8000-275-13500 (12,275)	25.10.2000	Permanent	Others
5	Subject Matter Specialist	Sri R.Panigrahi	SMS	Agril. Extn.	10000-325-15200 (13,575)	19.12.2006	Permanent	Others
6	Subject Matter Specialist	Dr. C.K Misra	SMS	Fishery Science	8000-275-13500 (8,825)	24.3.2005	Temporary	Others
7	Subject Matter Specialist	Dr. P.K Samant	SMS	Soil Science	8000-275-13500 (8,550)	14.2.2006	Temporary	Others
8	Programme Assistant	Mrs. A. Saran	Programme Assistant	Home Sc.	5500-175-9000 (8,300)	3.7.1996	Permanent	Others
9	Computer Programmer	Mrs. Sangita Panda	Prog. Asst. (Comp.)	Comp. Sc.	5500-175-9000 (5,500)	11.6.2007	Temporary	Others
10	Farm Manager	Mrs S.Srichandan	Farm Manager	Horticulture	5500-175-9000 (5,850)	18.1.2006	Temporary	Others
11	Accountant / Superintendent	Sri S.C. Rath	Section Officer	General	5900-200-9700 (6,800)	27.8.2007	Permanent	Others
12	Stenographer	vaccant	-	-	-	-	-	-
13	Driver	Sri P. Pani	Driver-cum-Mechanic	General	3200-85-4900 (4600)	7.5.1998	Permanent	Others
14	Driver	Sri K.C. Mallick	Driver-cum-Mechanic	General	3050-75-3950-80-4590 (3200)	31.3.2006	Permanent	S.C
15	Supporting staff	Sri K.C. Nayak	Cook	General	2610-60-3150-65-3540 (3280)	31.7.1999	Permanent	Others
16	Supporting staff	Sri P.M. Rao	Peon	General	2610-60-3150-65-3540 (3215)	6.4.1998	Permanent	Others

1.6. Total land with KVK (in ha) : 16

S. No.	Item	Area (ha)
1	Under Buildings	3.0
2.	Under Demonstration Units	1.5
3.	Under Crops	6.0
4.	Orchard/Agro-forestry	1.5
5.	Others	4.0

1.7. Infrastructural Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expendi-ture (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Admin. Building	ICAR	1997	489				
2	Farmers Hostel	ICAR	2006	290	24,71,444/-			
3	Staff Quarters (10)	ICAR	-	-	-	-	-	-
4	Demo. Units (2)	ICAR	2006	158	7,50,502/-			
5	Fencing	ICAR	2006		3,49,000/-			
6	Rain Water harvesting system	ICAR				2007		WHS escavation in progress
7	Threshing floor	ICAR	2006		1,53,000/-			
8	Farm godown	ICAR	2006		1,19,000/-			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (OR-02H 1966)	1998	-	40541	Working
Tractor (OR-05G 5714)	Purchased in 1998 by CRRI and was transferred to this KVK in 2002	-	-	Working
Hero Honda(OR 04G 4022)	2007	-	3821	Working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
OHP	1998	-	Working
Slide Projector	1998	-	Working
Computer	2002	-	Working
LCD Projector	2007	44710/-	Working
Laptop	2007	48900/-	Working

1.8. A). Details SAC meeting* conducted in the year: Conducted on 18.09.2007

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	18.9.2007	25	* Emphasis on Animal Sci. & Fishery componenet * Suitable strategy for acid and saline soil * Inclusion of women in KVK programmes * Linkage of farm youth to NABARD finance	* Fishery Scientist has been instructed to handle animal science * Soil test lab of KVK has invited farmers for soil sample collection and testing * Home Sci. discipline to reinforce Action Plan * Genuine cases of youth entrepreneurs have been recommended

** Attach a copy of SAC proceedings along with list of participants*

2. DETAILS OF DISTRICT (2007-08)

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

S. No	Farming system/enterprise
1.	HYV paddy-vegetables/Oilseeds/Pulses
2.	Jute-Vegetable/Oilseeds/Pulses
3.	Jute-HYV paddy
4.	Poultry, Goatery, Pisciculture, Fruits/Mushroom

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

Sl.No.	Agro-climatic Zone	Characteristics
1	East and South Eastern Coastal Plain Zone	Latitude : 18 ^{O}46' N –20 ^{O}95' N Longitude : 83^{O}48'E-87 ^{O}46'E Total geographical area : 16.84 lakh ha. Soil groups : Coastal saline & sandy Soil : Alluvial soil, Black soil Climate : Sub-tropical hot & humid Avg Temp : 39 ^{O} c (max) & 11 ^{O}.5 c (min) Avg Rainfall : 1340 mm.

Sl. No	Agro ecological situation	Characteristics
1	Coastal irrigated alluvium	Geographical area ('000ha) : 470 Soil type : Sandy loam to clay loam Rainfall(mm) : 1372 Irrigation potential Created ('000ha) :Kharif :166.0(59.8) :Rabi :111.0 (40.0) Cultivated area ('000ha) : 277.3 Gross cropped area ('000 ha) : 548.0 Cropping system(%) : 197 Major crops: Rice, green gram, vegetables, groundnut, jute, sesamum

2.	Rainfed Alluvium	Geographical area ('000ha) : 375 Soil type : Loamy sand to sandy clay loam Rainfall(mm) : 1345 Irrigation potential Created : Kharif :121(73.3) ('000ha) : Rabi :75 (45.4) Cultivated area ('000ha) :165 Gross cropped area ('000 ha) : 307 Cropping system(%) : 186 Major crops: Ric, greegram, vegetables, groundnut, jute, sesamum
3	Coastal alluvium saline	Geographical area ('000ha) : 318 Soil type : Sandy loam to clayee Rainfall(mm) :1379 Irrigation potential Created :Kharif :12.6(5.7) ('000ha) Rabi :4.9 (2.2) Cultivated area ('000ha) :219.2 Gross cropped area ('000 ha) : 228.0 Cropping system(%) : 104 Major crops: Ric, blackgram, vegetables
4	Coastal water logged	Geographical area ('000ha) : 728 Soil type : Loamy sand to sandy loam Rainfall(mm) :1362 Irrigation potential Created Kharif : - ('000ha) Rabi : - Cultivated area ('000ha) :323.7 Gross cropped area ('000 ha) : 314.0 Cropping system(%) : 97 Major crops : Rice

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha
1	Alluvial	Coarse sand to clay texture, low in WHC, base saturation & fertility, acidic in reaction	85300ha
2	Saline	Clay to clay loam in texture, low in N & K but medium in P, reduced uptake of K, Ca & Mg by plants due to presence of excess Na, suffers from H_2S injury	48200ha
3	Black	Heavier in texture with more than 30% clay, soil reaction is neutral to slightly alkaline with presence of free $CaCO_3$ nodules in profile	2500ha

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1	Paddy	139610	2379800	25.44
2	Greengram	32730	127600	3.9
3	Blackgram	34410	157600	4.58
4	Total vegetables	19670	2570100	130.66
5	Potato	770	86500	1123.4
6	Jute	2150	215200	18.02
7.	Groundnut	9640	238100	24.70

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April, 2007	2.6(1)	33	28	84
May, 2007	97.1(5)	35	30	83
June, 2007	190(12)	35	31	87
July, 2007	206(13)	36	30	88
August, 2007	437(13)	37	28	86
September, 2007	501(15)	31	29	89
October, 2007	110(5)	31	24	88
November, 2007	8(1)	31	23	86
December, 2007	-	29	18	80
January, 2008	31(3)	26	15	75
February, 2008	14(2)	25	16	78
March, 2008	3(1)	34	26	85

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

Category	Population(No.)	Production	Productivity
Cattle			
Crossbred	29400	31000 MT/yr(milk)	
Indigenous	188728		
Buffalo	31735		
Sheep			
Crossbred	43367	1324 MT/yr(meat)	
Indigenous			
Goats	104474		
Pigs			
Crossbred	9231		
Indigenous			
Rabbits			
Poultry			
Hens	301564	27 millions eggs/yr	
Desi			
Improved			
Ducks	94200		
Turkey and others	-		
Fish	-		
Marine	-	7100	
Inland	-	6299MT	
Prawn	-		
Scampi	-	23 MT	
Shrimp	-	1912 MT	

2.7. Details of Operational area / Villages (2007-08)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Kendrapara	Kendrapara	Kacheripara	Rice, Jute, Blackgram, Potato, Tomato Brinjal Chilli Summer vegetables Poultry mushroom	-Weed problem in upland crops -Low yield of crops due to poor nutritional mgt -Low yield from local cultivars -Improper plant protection measures -Soil acidity leading to lower crop yield -Year round unavailability of balanced nutritious food -Distress sale of fruits & vegetables at peak harvest -Improper preservation methods leading to spoilage	-Chemical weed management -Integrated nutrient management -High yielding varietal introduction/ substitution -Judicious pest management practices -Problematic soil management -Strategies for providing all the year round food security -Value addition -Preservation Technique
2	Kendrapara	Kendrapara	Nalapari	Rice, Blackgram, Greengram Potato Vegetables Coconut Dairy, Fishery Floriculture	-Weed problem in upland crops -Low yield of crops due to poor nutritional mgt -Low yield from local cultivars -Improper plant protection measures -Poor management of old orchards -Lack of scientific mgt. practices in pisciculture -Year round unavailability of balanced nutritious food	-Chemical weed management -Integrated nutrient management -High yielding varietal introduction/ substitution -Judicious pest management practice -Rejuvenation of old orchards -Fish yield maximization management practices -Strategies for providing all the year round food security

3	Kendrapara	Kendrapara	Poipat	Rice, Blackgram Coconut Fish	-Low yield of crops due to poor nutritional mgt. -Low yield from local cultivars -Improper plant protection measures - Poor fish growth & yield due to poor water quality -Lack of scientific mgt. practices in pisciculture -Year round unavailability of balanced nutritious food - Poor management of old orchards	-Integrated nutrient management -High yielding varietal introduction/ substitution -Judicious pest management practices -Water quality management -Fish yield maximization management practices -Strategies for providing all the year round food security - Rejuvenation of old orchards
4	Kendrapara	Kendrapara	Kanpura	Rice, Jute, Greengram Potato, Tomato, Chilli, Brinjal Coconut Poultry Fish Floriculture	-Low yield of crops due to poor nutritional mgt. -Low yield from local cultivars -Improper plant protection measures -Soil acidity leading to lower crop yield - Poor fish growth & yield due to poor water quality -Poor human resource management -Lack of scientific mgt. practices in pisciculture -Poor livestock feed availability during kharif - Year round unavailability of balanced nutritious food	Integrated nutrient management -High yielding varietal introduction/ substitution -Judicious pest management practices -Problematic soil management -Water quality management -Possible remunerative enterprise introduction -Proper management of available natural resources -Strategies for providing all the year round nutritious feed and food

5	Kendrapara	Kendrapara	Kalamatia	Rice,Wheat Greengram Mustard Potato, Tomato Chilli Brinjal Fish Dairy	Low yield of crops due to poor nutritional mgt. -Low yield from local cultivars -Improper plant protection measures -Soil acidity leading to lower crop yield - -Year round unavailability of balanced nutritious food -Poor livestock feed availability during kharif -Potential land under non-remunerative crops -Distress sale of fruits & vegetables at peak harvest	Integrated nutrient management -High yielding varietal introduction/ substitution -Judicious pest management practices -Problematic soil management -Strategies for providing all the year round nutritious feed and food -Possible remunerative enterprise/crop introduction -Value addition -Preservation Technique
6.	Kendrapara	Kendrapara	Kantia	Rice, Blackgram, Greengram Potato Watermelon Floriculture Vegetables Spices Dairy, Fishery Apiary Duckery	-Weed problem in upland crops -Low yield of crops due to poor nutritional mgt -Low yield from local cultivars -Improper plant protection measures -Poor management of old orchards -Lack of scientific mgt. practices in pisciculture -Year round unavailability of balanced nutritious food	-Chemical weed management -Integrated nutrient management -High yielding varietal introduction/ substitution -Judicious pest management practice -Rejuvenation of old orchards -Fish yield maximization management practices -Strategies for providing all the year round food security

2.8. Priority thrust areas

S. No	Thrust area
1	weed management
2	Integrated nutrient management
3	Variety introduction/ substitution
4	Judicious pest management practices
5	Problem soil & water quality management
6	Remunerative enterprise introduction
7	Management of available natural resources
8	Year round supply of nutritious feed and fodder
9	Preservation and value addition
10	Maximization of crop and fish yield
11	Improvement of plant growth and vigour

3. TECHNICAL ACHIEVEMENTS

3.1. A. Abstract of interventions undertaken

Sl. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Integrated nutrient management	Rice	Imbalanced use of chemical fertilizer		1. Green manuring with dhaincha 2. Micronutrient management to control grain sterility	1. Green manuring in rice 2. Use & multiplication of BGA in rice 3. Biofertiliser application in paddy 4. Micronutrient application in rice 5. INM in kharif rice 6. Fertilizer management in summer paddy nursery 7. STBFR in rice	1. INM strategies for crop production in irrigated area 2. STBFR to crops.	Field day, Group meeting, Film show, Radiotalk	Dhaincha seed,
		Groundnut	Imbalanced application of fertilisers		INM in groundnut	1. Secondary & micronutrient mgt. in oilseed crops. 2. Use of bacterial fert. In oilseed & pulse		Field day, Group meeting	

		Brinjal	Imbalanced use of chemical fertilizer	1. Effect of vermicompost in brinjal	1. Use of biofertilizer in brinjal 2. Micronutrient application in brinjal	1.Role of micronutrient in veg. crops 2. Fert. mgt. in veg. nursery 3. Pests & diseases of brinjal and their management 4. Crop rotation in nutritional garden 5. Preparation of different value added products from vegetables.	1. STBFR to crops.	Field day	Vermicom post,
		Potato	Imbalanced use of chemical fertilizer		1. Biofertilizer management in potato	1. Biofert. application in potato 2. Diseases and pests of potato and their suppression.		Field day	
		Vermi compost	Unavailability of low cost quality compost	1.Effect of vermicompost in brinjal	1. Vermi composting	1.Techniques of vermicompostin g 2. Commercial production of vermicompost	1. Quality compost production	Field day, Radio talk	Vermicom post
2	Weed manageme nt	Jute	Costly manual Weeding		Weed control in jute	Chemical weed control in jute		Popular article	

		Fish	Weed infestation	Algal bloom mgt. by using chemical	Biological control of aquatic weeds	1. Control method of aquatic weeds and predators 2. Prestocking preparation of fish ponds.		Field day, diagnostic visit	
3	Varietal substitution	Paddy	Poor yield from traditional variety	1. Varietal selection of deep water paddy 2. Varietal selection of scented rice for low land	1. Cultivation of scented rice in medium land 2. Varietal substitution in mid low land condition	Value addition in paddy cultivation.		Popular articles	Seeds of Varsha dhan, Ketakijoha, Geetanjali
		Brinjal	Wilting problem in local cultivars		Nutritional gardening			Diagnostic visits, Kishan Ghosti	Seedling
		Watermelon	Poor yield from traditional variety		Cultivation of improved variety of watermelon			Field day, Popular article	
		Frenchbean	Low yield problem in local cultivars		Introduction of improved vars. of frenchbean			Diagnostic visit, Group meeting	
		Chilli	Poor yield from traditional variety		Cultivation of improved varieties of chilli			Field day, Group meeting	Seedlings

4	Judicious pest and disease management	Paddy	Improper pest management leading to poor yield and quality		1. Management of blast in khariff paddy 2. Suppression of gundhi bug in khariff paddy	1.IPM in khariff rice 2. Disease mgt. in kharif rice 3. Use of neem based pesticide in crops.	1.Principles and practices in IPM 2. Use of biopesticides and botanicals	Radiotal ks	
		Brinjal	Injudicious application of chemical pesticides	1. Semio-chemical mgt. of fruit & shoot borer in brinjal		Pest and diseases of brinjal and their managemnt	1.Principles and practices in IPM 2. Use of biopesticides and botanicals		
		Potato	Poor yield of potato due to improper disease management		Management of late blight in potato	Diseases & pests of potato and their suppression	1.Principles and practices in IPM 2. Use of biopesticides and botanicals	Field day, Group meeting	
		Tomato	Injudicious application of chemical pesticides		Biological management of tomato fruit borer	Mgt. of biotic constraints of tomato	1.Principles and practices in IPM 2. Use of biopesticides and botanicals	Field day, Group meeting	
		Ginger	Severe fungal rot leading to poor crop stand		Management of softrot in ginger		Improved method of ginger cultivation		
		Chilli	Thrips infestation leading to yield loss		Thrips management in chilli				

		Fish	Lack of suitable management practice for control of EUS		Management of Epizootic Ulcerative Syndrome (EUS) in fish	Fish diseases and their control		Radio talk Popular article	
5	Soil and water quality management	Jute	Poor growth and yield due to soil acidity		Liming in jute	1.Use of amendments in acid soil 2.INM in jute 3. Soil sample collection technique	Mgt. of acid soil		
		Fish	Poor growth and yield due to acidic pond environment		Liming in rural fish ponds	1.Soil and water quality management in aquaculture 2. Prestocking preparation in fish pond	Nutrient mgt. in pisciculture	Radio talk	
6	Introduction of remunerative enterprise	Tuberose	Scanty supply of cut flowers due to small scale floriculture		Tuberose cultivation	1. Commercial cultivation of tuberose		Radio talk	bulbs
		Prawn	Poor income due to non stocking of high valued species		Introduction of giant fresh water prawn in polyculture system	1.Freshwater prawn culture 2.Preservation of fish and prawn 3.Grow out farming fresh water prawn		Group meeting , Film show	

7	Natural resource management	Fish	Unutilisation of small, derelict water bodies		Magur culture	Culture of air breathing fishes			
		Fish	Low yield due to improper recycling of nutrients		Fish-cum-duck farming	1.Integrated fish farming	Diversification of aquaculture pracctices		
8	Yield maximization	Paddy	Low yield from traditional planting		SRI in summer rice	1.SRI method of rice cultivation 2. Matbed nursery preparation		Field day, leaflet	
		Green gram	Poor yield due to local cultivars and improper management practices		Improved green gram cultivation	1.Use of bacterial fert. In oilseed & pulse 2. Mgt. of pests and diseases of greengram & blackgram		Field day	
		Watermelon	Low yield due to poor fruit set	Effect of hormones on watermelon		Effects of hormones in vegetable crops		Kishan gosthi, Group meeting	
		Fish	Low yield due to improper seed stocking and poor feeding			1.Feed scheduling and management in aquaculture 2. integrated fish farming 3. Use of biofert. in aquaculture	1.Concept of biotechnology and its application in aquaculture 2. Nutrient mgt. in pisciculture	Field day	

9	Food and feed security	Hybrid napier	Unavailability of cattle feed during lean seasons		Backyard fodder cultivation			Kishan gosthi, Group meeting	
		Nutritional garden	Unavailability of nutritionally balanced diet		1.Nutritional garden 2.Introduction of Elephant foot yam	1. planning ,layout and development of nutritional garden 2. Crop rotation in nutritional garden		Radiotalk	
		Poultry	Poor nutrition and income		Semi intensive poultry layer farming	1. Semi intensive poultry rearing		Group meeting , Film show,	
10	Value addition	Mango, mushroom, prawn	Market glut in peak production season fetches low income			Preparation of value added products of mango, mushroom, prawn etc.			

3.1. B. Details of each On Farm Trial to be furnished in the following format

3. 1. B. 1

1) **Title of on-farm trials:** Varietal selection of deep water paddy
2) **Problem diagnose:** Cultivation of low yielding local variety in deep water condition
3) **Details of technologies selected for assessment/refinement:** A suitable high yielding deep water paddy (var. Varsadhan)
4) **Source of technology:** CRRI
5) **Production system and thematic area:** Low land paddy production system and varietal substitution
6) **Performance of the Technology with performance indicators:** The introduced variety 'Varshadhan' for deep water condition in place of a local variety 'Panisanra' in its early stages had a vigourous growth and with comparatively more number of tillers (420 tiilers/m^2) and produced a higher yield of 32q/ha
7) **Final recommendation for micro level situation:** Varshadhan for deep water condition
8) **Constraints identified and feedback for research:** Survival of the variety under high flood situation
9) **Process of farmers' participation and their reaction:** Involved in problem diagnosis, planning, implementation and feedback. Preferred var. Varsadhan for better vegetative growth.

3. 1. B. 2

1) **Title of on-farm trials:** Varietal selection of scented rice
2) **Problem diagnose:** Local rice are low yielder and fetch less price
3) **Details of technologies selected for assessment/refinement:** A Suitable fine grained scented rice with better yield (var. 'Ketakijoha')
4) **Source of technology:** CRRI
5) **Production system and thematic area:** Low land paddy production system and varietal substitution.
6) **Performance of the Technology with performance indicators:** Variety 'Ketakijoha' in its vegetative growth stage has shown a better performance than the local variety 'Basuabhoga' with respect to its no. of tiller/$m^{2.}$ It is being appreciated by farmers for its higher yield than local one.
7) **Final recommendation for micro level situation:** Ketakijoha as suitable alternative
8) **Constraints identified and feedback for research:** Its acceptance will be much wider, if the variety will perform better in late sown condition as local variety 'Basuabhog'
9) **Process of farmers participation and their reaction:** Involved in problem diagnosis, planning, implementation and feedback. Preferred var. 'Ketakijoha' for better vegetative growth

3. 1. B. 3

1) **Title of on-farm trials:** Semio- chemical management of fruit and shoot borer of brinjal
2) **Problem diagnose:** Infestation of fruit and shoot borer and injudicious chemical control measure
3) **Details of technologies selected for assessment/refinement:** Installation of pheromone trap
4) **Source of technology:** OUAT
5) **Production system and thematic area:** Vegetable production system and pest management
6) **Performance of the Technology with performance indicators:** In progress
7) **Final recommendation for micro level situation:_**
8) **Constraints identified and feedback for research: -**
9) **Process of farmers participation and their reaction:** Involved in problem diagnosis, planning, implementation and feedback. Farmers preferred the easier and non chemical method of installing pheromone traps than the comparatively tedious process of chemical spraying.

3. 1. B. 4

1) **Title of on-farm trials:** Effect of hormones on watermelon
2) **Problem diagnose:** Hormonal imbalance leading to flower drop and poor fruit set
3) **Details of technologies selected for assessment/refinement:** Application of nitrobenzene @ 2ml/lt twice as foliar spray to watermelon crop once at two week stage and next at pre-flowering stage resulted in more no. of flowers, less flower drop and more no. of fruit set as compared to a crop grown without spraying of hormone as practiced by farmer.
4) **Source of technology:-**OUAT,
5) **Production system and thematic area:** Vegetable production system and Hormone application
6) **Performance of the Technology with performance indicators:** In progress
7) **Final recommendation for micro level situation: -**
8) **Constraints identified and feedback for research:** Efficacy of suitable alternatives may be studied further.
9) **Process of farmers participation and their reaction:** Involved in problem diagnosis, planning, implementation and feedback. Farmers may prefer this easy technology as a solution for the major problems of poor bloom and poor fruit set.

3. 1. B. 5

1) **Title of on-farm trials:** Effect of vermicompost in brinjal
2) **Problem diagnose:** Scarcity of FYM
3) **Details of technologies selected for assessment/refinement:** Application of vermicompost @ 2.5t/ha resulted higher yield and quality as compared to the FYM application by farmers.
4) **Source of technology:-**OUAT,
5) **Production system and thematic area:** Vegetable production system and organic manure application
6) **Performance of the Technology with performance indicators:** In progress
7) **Final recommendation for micro level situation: -**
8) **Constraints identified and feedback for research:** Complicated and expensive procedure
9) **Process of farmers participation and their reaction:P**roblem diagnosis, planning, implementation and feedback.

3. 1. B. 6

1) **Title of on-farm trials:** Algal bloom management using chemical
2) **Problem diagnose:** Low fish production due to algae menace.
3) **Details of technologies selected for assessment/refinement:** Application of $CuSO_4$ @ 0.2 ppm will reduce the algal growth.
4) **Source of technology:** CIFA
5) **Production system and thematic area:** Rainfed fish production system and management
6) **Performance of the Technology with performance indicators:** Density of algal bloom.
7) **Constraints identified and feedback for research:** Lack of availability of input.
8) **Process of farmers participation and their reaction:** Involved in problem diagnosis, planning, implementation.

3.1.C.1 Results of On Farm Trials on selection of deep water paddy

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Paddy	Rainfed	Cultivation of low yielding local variety in deep water condition	Selection of deep water paddy	5	Cv. Varsadhan	Grain yield (kg/ha) Effective tiller(Nos)

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Yield-32q/ha Effective tiller Nos.-340	The introduced variety 'Varshadhan' for deep water condition in place of a local variety 'Panisanra' produced higher yield and comparatively more number of tillers.	Grain quality appreciated and suitable for flood prone condition.	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice- Cv. Panisanra (Local)	2200 kg/ha	950/-	1.08
Technology assessed- Varsadhan	3200 kg/ha	6200/-	1.47
Technology refined**			

3.1.C.2 Results of On Farm Trials On Varietal selection of scented rice

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Rice	Rainfed	Local rice are low yielder and fetch less price	Varietal selection of scented rice	5	Cv. KetakiJoha	Grain yield (kg/ha) Tiller No/m^2

**** No. of farmers***

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
30 q/ha 391	Variety 'Ketakijoha' has shown a better performance than the local variety 'Basuabhoga' with respect to its no. of tiller/$m^{2.}$ and yield	Its acceptance will be much wider, if the variety will perform better in late sown condition as the local variety 'Basuabhog'	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice- Cv. Basuabhog (Local)	2100 kg/ha	2500/-	1.3
Technology assessed- Cv. Ketakijoha	3000 kg/ha	11000/-	1.8
Technology refined**	-		

3.1.C.3 Results of On Farm Trials on Semio- chemical management of fruit and shoot borer of brinjal

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Brinjal	Irrigated	Infestation of fruit and shoot borer and unjudeceous chemical control measure	Semio- chemical management of fruit and shoot borer of brinjal	15	Installation of pheromone trap	Fruit yield (t/ha) Infested twig(no/m^2) Infested fruit(%)

- ***No. of farmers***

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Testing in progress	-	installing pheromone traps is easier method than the comparatively tedious process of chemical spraying	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice – Non specific control & under dose pesticide at improper stage	-	-	-
Technology assessed – Installation of pheromone trap	-	-	-
Technology refined**			

3.1.C.4 Results of On Farm Trials on Effect of hormones on watermelon

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Watermelon	Rainfed	Hormonal imbalance leading to flower drop and poor fruit set	Effect of hormones on watermelon	5	Twice foliar spraying of nitrobenzene @ 1 l/ha	Fruit yield (t/ha)

**** No. of farmers***

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Testing in progress	-	Easier method	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice - no use of hormone	-	-	-
Technology assessed - Twice foliar spraying of nitrobenzene @ 1 l/ha	-	-	-
Technology refined**			

3.1.C.5 Results of On Farm Trials on Effect of vermicompost in brinjal

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Brinjal	Irrigated	Scarcity of quality FYM	Effect of vermicompost in brinjal	5	Vermicompost application @ 2.5 t/ha	Fruit yield(t/ha)
						Avg. fruit size(gm)
						Disease incidence

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Testing in progress	-	Farmers apprehended for the large scale application and production of vermicompost	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice – inadequate use low quality FYM	Vegetative stage	-	-[
Technology assessed- Use of vermicompost	Vegetative stage	-	-
Technology refined**			

3.1.C.6 Results of On Farm Trials on Algal bloom management using chemical

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Fish	Rainfed	Low yield due to algae menace	Algal bloom management using chemical	13	Application of $CuSO_4$ @ 200ppm/ha	Fish yield (kg/ha) Algal bloom(%)

**** No. of farmers***

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Testing in progress	-	-	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice – Non-specific control	-	-	-
Technology assessed- Application of $CuSO_4$ @ 200ppm/ha -	-	-	-
Technology refined**			

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 2007-08 and recommended for large scale adoption in the district

Sl. No	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
1	Weed management	Post emergence application of Quizalfop-ethyl @ 1 lit/ha for weed control in jute	Training Demonstration	8	71	40
2	Weed management	Pre emergence application of Butachlor @ 0.8 kgai/ha for weed control in upland paddy	Training Demonstration	10	88	54
3	Nutrient management	Application of neem coated urea in low land paddy	Training Demonstration	9	110	59
4	Varietal adoption	Growing var. Lalat in late September after harvest of jute	Training Demonstration	15	145	47
5	Varietal substitution	Growing FS-1 (hybrid) papaya	Training Demonstration	17	112	2.5
6	Varietal substitution	Growing wilt tolerant variety of tomato like Amarjyoti,Vishal	Training Demonstration	25	95	14
7	Pest management	Soil appln. Of Phorate & alternate spraying of Profenphos and (Cypermethrin + Monocrotophos) for brinjal fruit shoot borer	Training Demonstration Field visit	9	55	18
8	Pest management	Use of chloropyriphos, Profenphos , Ediphenphos,Validamycin & Carbendazim for IPM in rice	Training Demonstration Field visit	5	45	12
9	Mushroom cultivation	Cultivation technique of paddy straw & oyster mushroom	Training Demonstration	15	225	-
10	Backyard poultry	Backyard rearing Vanaraja,Grampriya like dual purpose breeds	Demonstration	15	145	-
11	Stock management	Composite pisciculture with optimum stocking density	Training Demonstration	5	35	4

** Thematic areas as given in Table 3.1 (A1 and A2)*

b. Details of FLDs implemented during 2007-08 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	Green manuring	Incorporating dhanicha at 45 days of sowing	Kharif, 2007	4.0	4.0	2	8	10	-
2.	Paddy	Varietal substitution	Introduction of Geetanjali	Kharif , 2007	1.0	1.0	1	4	5	-
3.	Paddy	Varietal substitution	Introduction of Pratikshya	Kharif , 2007	4.0	4.0	3	7	10	-
4.	Paddy	Micronutrient management	Spraying Borax and Zinc EDTA	Kharif , 2007	1.0	1.0	1	4	5	-
5.	Paddy	Management of blast disease	Spraying of Ediphenphos@ 500ml/ha	Kharif , 2007	2.0	2.0	0	5	5	-
6.	Paddy	Control of gundhibug	Spraying of carbaryl 50WP @ 2.5kg/ha	Kharif , 2007	2.0	2.0	0	5	5	-
7.	Paddy	SRI management	SRI method of summer rice cultivation	Rabi,2007-08	0.2	0.2	0	3	3	-
8.	Jute	Weed management	Post emergence spray of Quizalfopethyle@ 2ml./lt. At 24 days of crop	Kharif, 2007	1.0	1.0	3	2	5	-
9.	Jute	Soil management	Presowing application of lime@ 10% LR	Kharif, 2007	1.5	1.5	3	2	5	-
10.	Hybrid napier	Backyard fodder cultivation	Cultivation practices of hybrid napier	Kharif, 2007	0.2	0.2	1	4	5	
11.	Watermelon	Varietal substitution	Introduction of improved var.Bejo 408	Rabi, 2007-08	0.1	0.1	0	2	2	-
12.	Tomato	Soil management	Presowing application of lime@ 10% LR	Rabi, 2007-08	0.5	0.5	0	2	2	-
13.	French bean	Varietal substitution	Introduction of improved varieties-Contendor	Rabi, 2007-08	0.3	0.3	-	4	4	-
14.	Tomato	Biological control of fruit borer	Use of HaNPV	Rabi, 2007-08	1.0	1.0	-	5	5	-
15.	Brinjal	Organic farming	Application of biofertilizer	Rabi, 2007-08	0.1	0.1	-	2	2	-
16.	Chilli	Varietal substitution	Use of improved varieties- Agnirekha	Rabi, 2007-08	0.2	0.2	-	5	5	-
17.	Potato	Integrated nutrient management	Application of Azospirillum and PSB	Rabi, 2007-08	2.0	2.0	-	5	5	-

18.	Brinjal	Micronutrient management	Application of Zn and Boron	Rabi,2007-08	1.0	1.0	1	4	5	-
19.	Ginger	Management of softrot	Spraying of (Cymoxanil + Mancozeb) @ 5kg/ha	Kharif, 2007	0.5	0.5	0	5	5	-
20.	Potato	Late blight management	Spraying of (Metalaxyl + Mancozeb)	Rabi,2007-08	2.0	2.0	0	5	5	-
21.	Chilli	Thrips management	Spraying of Imidacloprid	Rabi,2007-08	2.0	2.0	1	4	5	-
22.	Nutritional garden	Food and nutritional security	Introduction of greens and vegetables	Kharif, 2007 Rabi,2007-08	0.5	0.5	-	25	25	-
23.	Elephant foot yam	Varietal introduction	Growing Gajendra variety	Rabi,2007-08	0.1	0.1	1	4	5	
24.	Tuberose	Commercial cultivation	Introduction of Rajatrekha	Kharif, 2007	0.2	0.2	-	2	2	-
25.	Prawn	Prawn in polyculture	Rearing prawn along with carp	Kharif, 2007	0.06	0.06	2	1	3	-
26.	Fish	Weed management	Introduction of grass carp	Kharif, 2007	1.0	1.0	-	4	4	-
27.	Fish	Water management	Application of lime	Kharif, 2007	0.4	0.4	1	1	2	-
28.	Fish	Magur culture	Introduction of magur	Kharif, 2007	0.04	0.04	1	1	2	-
29.	Fish	Disease management	CIFAX appln. For EUS	Rabi,2007-08	0.2	0.2	0	2	2	-
30.	Fish-Duck	Integrated farming	Rearing duck in fish pond	Rabi,2007-08	0.4	0.4	1	1	2	-
31.	Poultry	Semi-intensive layer	Introduction of RIR	Rabi,2007-08	-	-	10	0	10	-

FLD 1. Green manuring (dhaincha) in rice

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	Green manuring	Incorporating dhanicha at 45 days of sowing	Kharif, 2007	4.0	4.0	2	8	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif,	Rainfed	Alluvial	210.4	20.1	150.6	Rice	2nd week July 07	1st week Dec 07	1262	59

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Rice	Incorporation of dhaincha at 45days of sowing	Swarna	10	4.0	43	36	41	36	11	Tiller: No./m^2 350/65DAT	Tiller: No./m^2 315/65DAT

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
13000	12250	20500	18000	7500	5750	1.57

FLD 2. Cultivation of scented rice in mid land situation

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	Varietal substitution	Introduction of geetanjali	Kharif 2007	1.0	1.0	1	4	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif	Rainfed	Alluvial	175.4	18.2	136.4	Rice	2nd week July07	3rd Week Nov07	1262	59

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Paddy	Introduction of geetanjali	Geetanjali	5	1.0	32	22	27	27 (non scented)	-	No of tillers-380/mt^2	360/ mt^2

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
12500	12250	21600	13500	9100	1250	1.72

FLD 3. Cultivation of HYV paddy for mid low land situation

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	Varietal substitution	Introduction of Pratikshya	Kharif, 2007	4.0	4.0	3	7	10	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif	Rainfed	Alluvial	190	15.6	140.2	Rice	2nd week Jul07	1st week Dec07	1262	59

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Rice	Introduction of Pratikshya	Pratikshya	10	4.0	45	34	44	42	5	No. of tillers/mt^2-410	390

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
14000	14750	26400	25200	12400	10450	1.88

FLD 4. Micronutrient management to control grain sterility of rice

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	Micronutrient management	Spraying Borax and Zinc EDTA	Kharif, 2007	1.0	1.0	0	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif	Rainfed	Alluvial	180.5	16.4	120.8	Rice	3rd week July 07	1st week Dec 07	1262	59

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Rice	Application of micronutrients	Pooja	8	1.6	43	37	40	35	11	No of tillers/ m^2 385 Sterility 7%	No of tillers/ m^2 380 Sterility 19%

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
13000	12250	20000	17500	7000	5000	1.53

FLD 5. Management of blast desease in kharif rice

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Paddy	Disease management	Spraying of Ediphenphos@ 500ml/ha	Kharif 2007	2.0	2.0	0	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif	Rainfed	Alluvial	184.6	14.8	130.5	Pulse	4th week of july 07	3rd week of Dec.07	1262	59

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Paddy	Spraying of fungicide	CR 1018	5	2.0	44	38	41	37	11	Affected leaf-5%	Affected leaf-18%

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
13400	12500	24600	22200	11200	9700	1.65

FLD 6. Supression of gundhi bug in kharif paddy

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC /ST	Others	Total	
1.	Paddy	Control of gundhibug	Spraying of carbaryl 50WP @ 2.5kg/ha	Kharif , 2007	2.0	2.0	0	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Kharif	Rainfed	Alluvial	184.2	17.6	152.4	Rice	First week of Aug 07	3rd week of Dec .07	1262	59

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Rice	Spraying of carbaryl 50WP @ 2.5kg/ha	Swarna	5	2.0	46	39	43	39	8	Affected grain-4%	Affected grain-22%

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
14500	13500	25800	23400	11300	9900	1.77

FLD 7. Weed control in jute

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Jute	Weed management	Post emergence spray of Quizalfopethyle@ 2ml./lt. At 24 days of crop	Kharif, 2007	1.0	1.0	3	2	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Jute	Kharif	Rainfed	Alluvial	195.5	14.2	140.2	Rice	1st week of May 07	4th week of Aug 07	715	35

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Jute	Post emergence spray of Quizalfopethyle@ 2ml./lt. At 24 days of crop	JRC-212	5	1.0	21	19	20	19	5.2	Weed dry matter-8g/m^2 Pl. ht. 318cm.	Weed dry matter-32g/m^2 Pl. ht. 298cm.

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
11,400/-	13,000/-	16,000/-	15,200/-	4,600/-	2,200	1.4

FLD 8. Liming in jute

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ ST	Others	Total	
1.	Jute	Soil management	Presowing application of lime@ 10% LR	Kharif, 2007	1.5	1.5	3	2	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Jute	Kharif	Rainfed	Alluvial	202.8	18.6	136.0	Rice	1st week of May 07	4th week of Aug 07	715	35

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Jute	Presowing application of lime@ 10% LR	JRC-212	5	1.5	24.3	20.1	22.2	18.5	20	Ht. 333cm. B.D-2.8cm	Ht. 301cm. B.D-2.52cm

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
13,600/--	12,400/-	17,760/-	14,800/-	4,160/-	2,400/-	1.3

FLD 9. SRI in Summer rice

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ ST	Others	Total	
1.	Paddy	Improved cultivation	SRI method	Rabi, 2008	0.4	0.4	0	3	3	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Paddy	Rabi	Irrigated	Alluvial	202	18.6	136.5	Rice	Ist week Jan.2008	-	48	6

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Paddy	SRI method	Khandagiri	3	0.4	-	-	-	-	-	Tillers/hill-48	Tillers/hill-22

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	

FLD 10. Backyard fodder cultivation

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Hybrid napier	Backyard fodder cultivation	Cultivation practices of hybrid napier	Kharif, 2007	0.2	0.2	1	4	5	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Hybrid napier	Kharif	Rainfed	Alluvial	192.4	15.6	156.4	Rice	2nd week of Aug 07	3rd week Feb.08	1600	83

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Hybrid napier	Cultivation practices of hybrid napier	Napier	5	0.2	315	210	285	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
7500	-	14250	-	6750	-	1.9

FLD 11. Cultivation of improved varieties of watermelon

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Watermelon	Varietal substitution	Introduction of Bejo-2000	Rabi, 2007	1	1	0	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Watermelon	Rabi	Irrigated	Alluvial	188.5	15.6	155.0	Rice	1st week of Jan.08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Watermelon	Introduction of Bejo-2000	Bejo-2000	2	1	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	2.9

FLD 12. Application of lime in Tomato

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration		Reasons for shortfall in achievement	
					Proposed	Actual	SC/ST	Others	Total	
1.	Tomato	Soil management	Lime application @ 100kg/Ac.	Rabi,2007	0.5	0.5	0	2		

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Tomato	Rabi	Irrigated	Alluvial	156.8	12.8	125.0	Rice	1st week of Feb. 08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Tomato	Lime application @ 100kg/Ac..	BT 10	2	0.5	-	-	-	-	-	-	-

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	

FLD 13. Introduction of improved varieties of French bean

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	French bean	Varietal introduction	Introduction of Contender	Rabi, 08	0.3	0.3	0	4	4	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
French bean	Rabi	Irrigated	Alluvial	166.8	11.8	145	Rice	1st week 0f Feb. 08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Frenchbean	Introduction of Contender	Contender	4	0.4	-	-	-	-	-	-	-

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	

FLD 14. Biological Management of tomato fruit borer

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Tomato	IPM	Use of HaNPV	Rabi, 2007	1.0	1.0	-	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Tomato	Rabi	Irrigated	Alluvial	195.6	15.8	165	Rice	2nd week of Feb 08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Tomato	Use of HaNPV	BT 10	5	1.0	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 15. Use of biofertilizer in brinjal

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
14.	Brinjal	Organic farming	Application of biofertilizer	Rabi, 2007	0.2	0.2	-	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Brinjal	Rabi	Irrigated	Alluvial	210	12.8	150	Rice	2nd week of Feb.08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Brinjal	Application of biofertilizer	BB 44	2	0.2	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	

FLD 16. Introduction of improved varieties of chilli

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Chilli	Varietal substitution	Use of improved varieties	Rabi, 2007	0.1	0.1	-	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Chilli	Rabi	Irrigated	Alluvial	170.4	15.2	148.2	Rice	3rd week Feb.08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Chilli	Use of improved varieties	Agnirekha	5	0.1	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 17. Biofertilizer management in potato

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Potato	Integrated nutrient management	Application of Azotobacter, Azospirillum and PSB	Rabi, 2007	2.0	2.0	-	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Potato	Rabi	Irrigated	Alluvial	188.6	15.6	155.2	Rice	4th week of Nov.07	4th week of Feb.08	56	7

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Potato	Application of Azotobacter, Azospirillum and PSB	Kufri Jyoti	5	2.0	260	200	235	200	17.5	Ave. tuber wt.-50gm	Ave. tuber wt.-35gm

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
22,500/-	22,000/-	70,500/-	60,000/-	48,000/-	38,000/-	3.1

FLD 18. Micronutrient application in Brinjal

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Brinjal	INM	Application of micronutrient mixture	Rabi, 07	1.0	1.0	0	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Brinjal	Rabi	Irrigated	Alluvial	188.6	16.8	165.2	Rice	3rd week of Jan.08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Brinjal	Application of micronutrient mixture	Hajari	5	1.0	-	-	-	-	-	-	-

NB: Attach few good action photographs with title at the back with pencil

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	

FLD 19. Management softrot in ginger

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Ginger	Management of softrot	Spraying of (Cymoxanil + Mancozeb) @ 5kg/ha	Kharif, 2007	0.5	0.5	0	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Ginger	Kharif	Rainfed	Alluvial	195.6	14.8	128.6	vegetable	1st week of June 07	2nd week of Dec.07	1452	71

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Ginger	Spraying of (Cymoxanil + Mancozeb) @ 5kg/ha	Suprava	5	0.5	115	85	105	80	31	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
65000	63000	210000	160000	145000	97000	3.1

FLD 20. Management of late blight in potato

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Potato	Disease management	Spraying of (Metalaxyl+ Mancozeb)	Rabi, o7	2.0	2.0	0	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Potato	Rabi	Rainfed	Alluvial	205.8	13.8	148.5	Rice	4th week of Nov.07	4th week of Feb.08	56	7

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Potato	Spraying of (Metalaxyl+ Mancozeb)	Kufri Jyoti	5	2.0	230	200	215	180	20.6	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
21,500/-	20,000/-	60,750/-	45,000/-	39,250/-	25,000/-	2.82

FLD 21. Thrips management in Chilli

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Chilli	Pest management	Spraying of imidacloprid	Rabi, 2008	2.0	2.0	0	5	5	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Chilli	Rabi	Irrigated	Alluvial	190.4	18.2	148.2	Rice	1st week Feb.08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Chilli	Spraying of imidacloprid	Agnirekha	5	2.0	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 22. Nutritional gardening

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Vegetables	Food and nutritional security	Introduction of greens	Summer, Kharif, Rabi 2007	0.5	0.5	23	2	25	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Vegetables	Summer, Kharif, Rabi 2007	Irrigated	Alluvial	182.5	16.8	148.8	Rice	1st week Dec 2007	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	-	Introduction of greens	Drumstick-PKM-1 Papaya-CO-1	25	0.5	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 23. Introduction of Elephant Foot Yam

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Elephant foot yam	Crop substitution	Supply of tubers in upland cond.	Rabi, 2007	0.5	0.5	0	5	5	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Elephant foot yam	Rabi, 2007	Irrigated	Alluvial	198.2	12.6	155.8	-	2nd week of march-08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Elephant foot yam	Supply of tubers in upland cond.	Gajendra	5	0.5	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 24. Tuberose cultivation

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Tuberose	Commercial cultivation	Introduction of rajatrekha	Kharif, 2007	0.2	0.2	-	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Tuberose	Kharif	Rainfed	Alluvial	178.6	15.2	168.6	Vegetables	3rd week of May 07	2nd week of Feb. 08	1567	79

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha (No. of sticks)			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Tuberose	Introduction of rajatrekha	Rajatrekha	2	0.2	75000	50000	62500	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
30000	-	62500	-	32500	-	2.0

FLD 25. Introduction of giant fresh water prawn (*M rosenbergii*) in ploy culture

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Prawn	Fresh water prawn culture	Introduction of fresh water prawn in poly culture	Annual 2007	0.2	0.2	0	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Prawn	Kharif	Rainfed	Alluvial	245.8	25.5	180.8	Fish	2rd week of Feb. 08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Prawn	Introduction of fresh water prawn in poly culture	*Macrobrachium rosenbergii*	2	0.2	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 26. Biological control of aquatic weeds

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Fish	Weed management	Introduction of grass carp	Annual 2007	0.5	0.5	-	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Fish	Rabi	Rainfed	Alluvial	265.8	24.6	175	Fish	4th week of Jan. 08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Fish	Introduction of grass carp	Ctenopharyngodon idella	2	0.5	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	

FLD 27. Liming in rural fish ponds

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Fish	Water management	Application of lime	Annual 2007	0.5	0.5	0	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Fish	Kharif	Rainfed	Alluvial	290.4	28.8	214	Fish	4th week of july.07	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Fish	Application of lime	Carp	2	0.50	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 28. Magur culture

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Fish	Magur culture	Introduction of magur	Annual 2007	0.04	0.04	1	1	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Fish	Kharif	Rainfed	Alluvial	248.2	24.5	195	Fish	1st week of Aug 07	-		

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Fish	Introduction of magur	Magur	2	0.04	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 29. Control of EUS in fish

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1.	Fish	Disease management	Application of CIFAX	Annual 2007	0.8	0.8	-	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Fish	Rabi, 2007	Rainfed	Alluvial	258.2	22.5	188	Fish	1st week of Feb. 08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Fish	Application of CIFAX	IMC	2	0.8	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

FLD 30. Fish-cum-Duck farming

Sl. No.	*Crop*	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Fish	Integrated fish farming	Duck cum fish farming	Annual 2007	1.0	1.0	-	2	2	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Fish	Annual 2007	Rainfed	Alluvial	268.4	24.2	206.5	Fish	3rd week of March 08	-	-	-

Performance of FLD

Sl. No	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Fish	Duck cum fish farming	IMC, Khakicampbell	2	1.0	-	-	-	-	-	-	-

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
-	-	-	-	-	-	-

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. Variety				
Paddy	Kharif	Variety(Gitanjali)	Rainfed	27	-	-
Paddy	Kharif	Variety(Pratikshya)	Rainfed	44	42	5
Hybridnapier	Kharif	Variety	Rainfed	285	-	-
Chilli	Rabi	Variety	Irrigated	84	62	35.4
Tuberose	Rabi	Variety(Rajatrekha)	Irrigated	60000 sticks	-	-
		2. Bio-fertilizer				
Paddy	Kharif	Green manuring	Rainfed	41	36	11
		3. Fertilizer management				
Paddy	Kharif	Borax, Zn EDTA	Rainfed	40	35	11
Jute	Kharif	Lime	Rainfed	22.2	18.5	20
Brinjal	Rabi	-do-	Irrigated	220	150	46.6
Potato	Rabi	Biofertilizer	Irrigated	235	200	17.5
		4. Plant Protection				
Paddy	Rainfed	Fungicide for Blast	Kharif	41	37	11
Paddy	Rainfed	Pesticide for Gundhi	Kharif	43	39	8
Jute	Rainfed	Weedicide	Kharif	20.0	19.0	5.2
Ginger	Kharif	-do-	Rainfed	-	-	-
Potato	Rabi	Fungicide for late blight	Irrigated	215	180	20.6
		5. Combination of components (Please specify)				

Technical Feedback on the demonstrated technologies

Sl. No.	Technology	Feed Back
1	Green manuring in dhanicha	Liming with green manuring may be tested in acid soil
2	Varietal substitution of scented rice	Yield/ha, market demand
3	Varietal substitution of rice in mid low land condition	Performance in late sown and flood condition may be tested
4	Micronutrient management to control grain sterility of rice	No. of chaffy grains/panice
5	Chemical management of blast disease of rice	% of affected grains, yield
6	Chemical control of gundhi bug in rice	% grain damage and yield
7	Chemical weed control with pre emergence weedicide(Quizal-fop-ethyle) in jute	Weedicide with spreader may prove better
8	Acid soil amelioration with application of lime in jute	Seed drill use may facilitate furrow application of lime
9	Backyard conservation with improved practices of hybrid napier	Fodder yield and palatability
10	Varietal substitution for higher yield of watermelon	More improved vars. with medium fruit size may be tested.
11	SRI method of rice cultivation	Modified management
12	Varietal introduction of frenchbean	Season neutral var. may be tried
13	Biological control of tomato fruit borer	Other biocontrol agents integrated with HaNPV may be tested for better suppression
14	Integrated nutrient management(Use of biofertilizer) in brinjal	Biofertlizer application along with amelioration of acid soil may be taken care of.
15	Varietal substitution for higher yield of chilli	Some other improved variety may be tested according to environmental suitability and disease pest resistant quality
16	Integrated nutrient management(Use of biofert.) in potato	Application of biofertilizer along with management of problematic soil may be taken care of.
17	Nutritional garden for food and nutritional security	Use of organic fertilizer like vermicompost and biopesticides may be taken
18	Chemical management of softrot of ginger	Other combined fungicide formulation consisting of systemic and contact may be tested for better efficiency
19	Improved cultivation techniques for commercial floriculture(Tuberose)	Income /ha, market demand
20	Cultivation of fresh water prawn in polyculture	Stocking density of other bottom feeder fish spp.along with prawn may be standardized.
21	Control of aquatic weeds by grass carp	Use of suitable fish spp. as biocontrol agent may be tested for better control of other aquatic weed.
22	Liming for conducive water environment for fish growth and yield	Fish growth, fish yield
23	Economic utilization of backyard small water bodies by magur culture	Fish yield, market demand

Farmers' reactions on specific technologies

Sl. No.	Technology	Reaction
1	Green manuring in dhanicha	Better crop growth, but in rainfed condition timely incorporation may not be possible
2	Varietal substitution of scented rice	Better crop growth and less disease incidence
3	Varietal substitution of rice in mid low land condition	Better crop growth and less disease incidence
4	Micronutrient management to control grain sterility of rice	Better crop growth and less sterility
5	Chemical management of blast disease of rice	Reduced blast incidence
6	Chemical control of gundhi bug in rice	Less pest incidence
7	Chemical weed control with pre emergence weedicide(Quizal-fop-ethyle) in jute	Better weed control, spraying easier than other weedicide
8	Acid soil amelioration with application of lime in jute	Better crop yield and quality.
9	Backyard conservation with improved practices of hybrid napier	Better palatable fodder for livestock
10	Varietal substitution for higher yield of watermelon	Good variety with better yield and taste.
11	SRI method of rice cultivation	Better crop growth with more tiller
12	Varietal introduction of frenchbean	Vigorous growth
13	Biological control of tomato fruit borer	HaNPV was effective against fruit borer but application technique is somewhat cumbersome.
14	Integrated nutrient management(Use of biofertilizer) in brinjal	-
15	Varietal substitution for higher yield of chilli	-
16	Integrated nutrient management(Use of biofert.) in potato	Difficulty in timely availability for its application
17	Nutritional garden for food and nutritional security	Round the year availability and additional income.
18	Chemical management of softrot of ginger	Compatible with existing farming situation and accepted for large scale adoption.
19	Improved cultivation techniques for commercial floriculture	Lacks marketing
20	Cultivation of fresh water prawn in polyculture	-
21	Control of aquatic weeds by grass carp	-
22	Liming for conducive water environment for fish growth and yield	-
23	Economic utilization of backyard small water bodies by magur culture	-

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	22	9.1.08, 10.1.08, 11.1.08, 1.2.08,2.2.08,5.2.08,6.2.08, 15.2.08, 16.2.08, 18.2.08, 23.2.08, 25.2.08, 26.2.08, 27.2.08, 10.3.08, 11.3.08, 12.3.08, 13.3.08, 19.3.08, 20.3.08		
2	Farmers Training	8	28.06.07 to 29.6.07, 24.9.06 to26.9.07, 16.10.06 to 17.10.06, 30.10.06, 18.12.06 to 21.12.06, 6.3.07 to 7.3.07, 15.3.07, 6.8.07	150	
3	Media coverage	20			
4	Training for extension functionaries	4	20.12.06 to 22.12.06, 7.2.07, 27.2.07 to 28.2.07, 21.9.07,	40	

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

** Field efficiency, labour saving etc.*

(ii) Livestock Enterprises

FLD-31 Semi intensive poultry layer farming

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Poultry layer farming	RIR	25	350	-	-	-	-	Input supplied during March-08

(iii) Other Enterprises

Enterprise	Variety/ breed/ Species/ others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom								
Apiary								
Sericulture								
Vermi-compost								

3.3Achievements on Training (Including the sponsored and FLD training programmes):

3.4 ON Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	2	8	-	8	12	-	12	20
Resource Conservation Technologies									
Cropping Systems	1	2	19	-	19	1	-	1	20
Crop Diversification									
Integrated Farming									
Water management	1	2	12	-	12	8	-	8	20
Seed production									
Nursery management									
Integrated Crop Management	4	8	66	-	66	14	-	14	80
Fodder production									
Production of organic inputs									
II Horticulture									
a) Vegetable Crops									
Production of low volume and high value crops	3	6	38	3	41	19	-	19	60
Off-season vegetables	1	2	-	13	13	-	7	7	20
Nursery raising									
Exotic vegetables like Broccoli									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Export potential vegetables									
Grading and standardization									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit	1	2	20	-	20	-	-	-	20
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
e) Tuber crops									
Production and Management technology	1	2	19	-	19	1	-	1	20
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	2	6	-	6	14	-	14	20
Soil and Water Conservation									
Integrated Nutrient Management	4	8	67	-	67	13	-	13	80
Production and use of organic inputs	1	2	10	-	10	10	-	10	20
Management of Problematic soils	4	8	74	-	74	6	-	6	80
Micro nutrient deficiency in crops	3	5	75	-	75	25	-	25	100
Nutrient Use Efficiency									
Soil and Water Testing	1	2	20	-	20	-	-	-	20
IV Livestock Production and Management									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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 techniques	1	2	-	15	15	-	5	5	20
Value addition	2	4	-	35	35	-	5	5	40
Income generation activities for empowerment of rural Women	3	6	-	57	57	-	3	3	60
Location specific drudgery reduction technologies	1	2	-	17	17	-	3	3	20
Rural Crafts									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	1	2	17	-	17	3	-	3	20
Integrated Disease Management	4	7	65	-	65	15	-	15	80
Bio-control of pests and diseases	1	1	-	20	20	-	-	-	20
Production of bio control agents and bio pesticides									
VIII Fisheries									
Integrated fish farming	3	7	55	-	55	5	-	5	60
Carp breeding and hatchery management									
Carp fry and fingerling rearing	1	2	16	-	16	4	-	4	20
Composite fish culture	2	3	30	-	30	10	-	10	40
Hatchery management and culture of freshwater prawn									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Breeding and culture of ornamental fishes									
Portable plastic carp hatchery									
Pen culture of fish and prawn									
Shrimp farming									
Edible oyster farming									
Pearl culture	1	2	19	-	19	1	-	1	20
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Leadership development									
Group dynamics									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development 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	2	5	-	20	20	-	-	-	20
Bee-keeping	1	2	10	-	10	-	-	-	10
Integrated farming									
Seed production									
Production of organic inputs	2	12	14	10	24	6	-	6	30
Integrated Farming									
Planting material production									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Vermi-culture	1	2	20	-	20	-	-	-	20
Sericulture									
Protected cultivation of vegetable crops									
Commercial fruit production									
Repair and maintenance of farm machinery and implements									
Nursery Management of Horticulture crops	2	12	20	12	32	-	-	-	32
Training and pruning of orchards									
Value addition	2	12	10	18	28	2	2	4	32
Production of quality animal products									
Dairying									
Sheep and goat rearing									
Quail farming									
Piggery									
Rabbit farming									
Poultry production									
Ornamental fisheries	1	3	4	14	18	-	2	2	20
Para vets									
Para extension workers	3	6	35	15	50	6	4	10	60
Composite fish culture	1	3	18	-	18	2	-	2	20
Freshwater prawn culture	1	10	9	-	9	3	-	3	12
Shrimp farming									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Pearl culture									
Cold water fisheries									
Fish harvest and processing technology	2	4	7	31	38	-	2	2	40
Fry and fingerling rearing									
Small scale processing	1	10	-	12	12	-	-	-	12
Post Harvest Technology									
Tailoring and Stitching	1	7	-	9	9	-	1	1	10
Rural Crafts	1	10	-	12	12	-	-	-	12
TOTAL									
(C) Extension Personnel									
Productivity enhancement in field crops	2	4	20	-	20	-	-	-	20
Integrated Pest Management	2	4	10	9	19	9	1	1	20
Integrated Nutrient management	4	8	37	-	37	3	-	3	40
Rejuvenation of old orchards									
Protected cultivation technology	1	2	20	-	20	-	-	-	20
Formation and Management of SHGs	2	4	10	8	18	-	2	2	20
Group Dynamics and farmers organization									
Information networking among farmers									
Capacity building for ICT application	1	3	9	-	9	1	-	1	10
Care and maintenance of farm machinery and implements									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
WTO and IPR issues									
Management in farm animals	1	2	10	-	10	-	-	-	10
Livestock feed and fodder production									
Household food security	1	2	-	15	15	-	-	-	15
Women and Child care									
Low cost and nutrient efficient diet designing	1	2	-	12	12	-	3	3	15
Production and use of organic inputs	1	2	-	19	19	-	1	1	20
Gender mainstreaming through SHGs									
Any other (Pl. Specify)									
Disease management									
Biotech. Application									
Aquaculture diversification									
TOTAL	**85**	**224**	**909**	**376**	**1285**	**184**	**41**	**225**	**1510**

A) OFF Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	2	15	-	15	5	-	5	20
Resource Conservation Technologies	1	2	17	-	17	3	-	3	20
Cropping Systems									
Crop Diversification									
Integrated Farming									
Water management									
Seed production									
Nursery management	1	2	19	-	19	1	-	1	20
Integrated Crop Management	4	8	50	-	50	10	20	30	80
Fodder production									
Production of organic inputs	1	2	3	15	18	-	2	2	20
II Horticulture									
a) Vegetable Crops									
Production of low volume and high value crops	1	2	-	17	17	-	3	3	20
Off-season vegetables	1	2	-	4	4	-	16	16	20

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Nursery raising	1	2	-	8	8	-	12	12	20
Exotic vegetables like Broccoli									
Export potential vegetables	1	2	-	14	14	-	6	6	20
Grading and standardization									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards	1	2	-	16	16	-	4	4	20
Cultivation of Fruit	1	2	19	-	19	1	-	1	20
Management of young plants/orchards									
Rejuvenation of old orchards									
Export potential fruits									
Micro irrigation systems of orchards									
Plant propagation techniques	1	2	-	15	15	-	5	5	20

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	1	2	-	19	19	-	1	1	20
Processing and value addition									
e) Tuber crops									
Production and Management technology									
Processing and value addition									
f) Spices									
Production and Management technology	2	4	15	20	35	5	-	5	40

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	3	5	52	-	52	8	-	8	60
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Soil and Water Testing									
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	2	`4	-	22	22	-	18	18	40
Design and development of low/minimum cost diet									
Designing and development for high nutrient efficiency diet									
Minimization of									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition									
Income generation activities for empowerment of rural Women	1	3	-	5	5	-	15	15	20
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
maintenance of farm machinery and implements									
Small scale processing and value addition									
Post Harvest Technology									
VII Plant Protection									
Integrated Pest Management	4	8	67	-	67	13	-	13	80
Integrated Disease Management	5	10	62	-	62	38	-	38	100
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
Integrated fish farming	4	6	47	-	47	20	8	28	75
Carp breeding and hatchery management									
Carp fry and fingerling rearing									
Composite fish culture	1	2	9	-	9	11	-	11	20
Hatchery management	1	2	19	-	19	1	-	1	20

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
and culture of freshwater prawn									
Breeding and culture of ornamental fishes									
Portable plastic carp hatchery									
Pen culture of fish and prawn									
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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									
Formation and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production technologies									
Nursery management									
Integrated Farming Systems									
XII Others (Pl. Specify)									
TOTAL									
(B) RURAL YOUTH									
Mushroom Production									
Bee-keeping									
Integrated farming									
Seed production									
Production of organic inputs									
Integrated Farming									
Planting material production	1	2	-	20	20	-	-	-	20
Vermi-culture									
Sericulture									
Protected cultivation of vegetable crops									
Commercial fruit production									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Repair and maintenance of farm machinery and implements									
Nursery Management of Horticulture crops									
Training and pruning of orchards									
Value addition									
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Shrimp farming									
Pearl culture									
Cold water fisheries									
Fish harvest and processing technology									
Fry and fingerling rearing									
Small scale processing									
Post Harvest Technology									
Tailoring and Stitching									
Rural Crafts									
TOTAL									
(C) Extension Personnel									
Productivity enhancement in field crops									
Integrated Pest Management									
Integrated Nutrient management									
Rejuvenation of old orchards									
Protected cultivation									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
through SHGs									
Any other (Pl. Specify)									
TOTAL	**40**	**78**	**394**	**175**	**569**	**116**	**110**	**226**	**795**

C) Consolidated table (On and Off Campus)

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	4	23	-	23	17	-	17	40
Resource Conservation Technologies	1	2	17	-	17	3	-	3	20
Cropping Systems	1	2	19	-	19	1	-	1	20
Crop Diversification									
Integrated Farming									
Water management	1	2	12	-	12	8	-	8	20
Seed production									
Nursery management	1	2	19	-	19	1	-	1	20
Integrated Crop Management	8	16	116	-	116	24	20	44	160
Fodder production									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Production of organic inputs	1	2	3	15	18	-	2	2	20
II Horticulture									
a) Vegetable Crops									
Production of low volume and high value crops	4	8	38	20	58	19	3	22	80
Off-season vegetables	2	4	-	17	17	-	23	23	40
Nursery raising	1	2	-	8	8	-	12	12	20
Exotic vegetables like Broccoli									
Export potential vegetables	1	2	-	14	14	-	6	6	20
Grading and standardization									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards	1	2	-	16	16	-	4	4	20
Cultivation of Fruit	2	4	39	-	39	1	-	1	40
Management of young									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
plants/orchards									
Rejuvenation of old orchards									
Export potential fruits									
Micro irrigation systems of orchards									
Plant propagation techniques	1	2	-	15	15	-	5	5	20
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	1	2	-	19	19	-	1	1	20
Processing and value addition									
e) Tuber crops									
Production and	1	2	19	-	19	1	-	1	20

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management technology									
Processing and value addition									
f) Spices									
Production and Management technology	2	4	15	20	35	5	-	5	40
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	2	6	-	6	14	-	14	20
Soil and Water Conservation									
Integrated Nutrient	7	13	119	-	119	21	-	21	140

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Management									
Production and use of organic inputs	1	2	10	-	10	10	-	10	20
Management of Problematic soils	4	8	74	-	74	6	-	6	80
Micro nutrient deficiency in crops	3	5	75	-	75	25	-	25	100
Nutrient Use Efficiency									
Soil and Water Testing	1	2	20	-	20	-	-	-	20
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	2	4	-	22	22	-	18	18	40

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	1	2	-	15	15	-	5	5	20
Value addition	2	4	-	35	35	-	5	5	40
Income generation activities for empowerment of rural Women	4	9	-	62	62	-	18	18	80
Location specific drudgery reduction technologies	1	2	-	17	17	-	3	3	20
Rural Crafts									
Women and child care									
VI Agril. Engineering									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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	10	84	-	84	16	-	16	100
Integrated Disease Management	9	17	127	-	127	53	-	53	180
Bio-control of pests and diseases	1	1	-	20	20	-	-	-	20
Production of bio control agents and bio pesticides									
VIII Fisheries									
Integrated fish	7	13	102	-	102	25	8	33	135

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
farming									
Carp breeding and hatchery management									
Carp fry and fingerling rearing	1	2	16	-	16	4	-	4	20
Composite fish culture	3	5	39	-	39	21	-	21	60
Hatchery management and culture of freshwater prawn	1	2	19	-	19	1	-	1	20
Breeding and culture of ornamental fishes									
Portable plastic carp hatchery									
Pen culture of fish and prawn									
Shrimp farming									
Edible oyster farming									
Pearl culture	1	2	19	-	19	1	-	1	20
Fish processing and value addition									
IX Production of Inputs at site									
Seed Production									
Planting material production									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
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									
Formation and Management of SHGs									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Mobilization of social capital									
Entrepreneurial development 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	2	5	-	20	20	-	-	-	20
Bee-keeping	1	2	10	-	10	-	-	-	10
Integrated farming									
Seed production									
Production of organic inputs	2	12	14	10	24	6	-	6	30
Integrated Farming									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Planting material production	1	2	-	20	20	-	-	-	20
Vermi-culture	1	2	20	-	20	-	-	-	20
Sericulture									
Protected cultivation of vegetable crops									
Commercial fruit production									
Repair and maintenance of farm machinery and implements									
Nursery Management of Horticulture crops	2	12	20	12	32	-	-	-	32
Training and pruning of orchards									
Value addition	2	12	10	18	28	2	2	4	32
Production of quality animal products									
Dairying									
Sheep and goat rearing									
Quail farming									
Piggery									
Rabbit farming									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Poultry production									
Ornamental fisheries	1	3	4	14	18	-	2	2	20
Para vets									
Para extension workers	3	6	35	15	50	6	4	10	60
Composite fish culture	1	3	18	-	18	2	-	2	20
Freshwater prawn culture	1	10	9	-	9	3	-	3	12
Shrimp farming									
Pearl culture									
Cold water fisheries									
Fish harvest and processing technology	2	4	7	31	38	-	2	2	40
Fry and fingerling rearing									
Small scale processing	1	10	-	12	12	-	-	-	12
Post Harvest Technology									
Tailoring and Stitching	1	7	-	9	9	-	1	1	10
Rural Crafts	1	10	-	12	12	-	-	-	12
TOTAL	**22**	**100**	**147**	**173**	**320**	**19**	**11**	**30**	**350**

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
(C) Extension Personnel									
Productivity enhancement in field crops	2	4	20	-	20	-	-	-	20
Integrated Pest Management	2	4	10	9	19	-	1	1	20
Integrated Nutrient management	4	8	37	-	37	3	-	3	40
Rejuvenation of old orchards									
Protected cultivation technology	1	2	20	-	20	-	-	-	20
Formation and Management of SHGs	2	4	10	8	18	-	2	2	20
Group Dynamics and farmers organization	1	2	10	-	10	-	-	-	10
Information networking among farmers									
Capacity building for ICT application	1	3	9	-	9	1	-	1	10
Care and maintenance of farm machinery and implements									
WTO and IPR issues									
Management in farm	1	2	10	-	10	-	-	-	10

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
animals									
Livestock feed and fodder production									
Household food security	1	2	-	15	15	-	-	-	15
Women and Child care									
Low cost and nutrient efficient diet designing	1	2	-	12	12	-	3	3	15
Production and use of organic inputs	1	2	-	19	19	-	1	1	20
Gender mainstreaming through SHGs									
Any other (Pl. Specify)									
Disease management									
Biotech. application									
Aquaculture diversification									
TOTAL	**125**	**302**	**1303**	**551**	**1854**	**300**	**151**	**451**	**2305**

B) ON Campus

Date	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Crop Production										
18.6.07 to 19.6.07	F	Chemical weed control in jute	2	on	20	-	20	12	-	12
22.6.07 to 23.6.07	F	INM in jute	2	On	20	-	20	2	-	2
28.6.07 to 29.6.07	F	Green manuring in rice crop	2	off	20	-	20	1	-	1
13.8.07 to 14.8.07	F	Matbed nursery preparation in paddy manual transplanter	2	Off	20	-	20	1	-	1
3.7.07 to 4.7.07	F	Use and multiplication of BGA in rice	2	Off	3	17	20	-	2	2
17.8.07 to 18.8.07	F	Weed control in upland rice	2	Off	20	-	20	5	-	5
12.9.07 to 13.9.07	F	SRI method of rice cultivation	2	Off	20	-	20	3	-	3
28.9.07 to 29.9.07	F	Biofertilizer use in paddy cultivation	2	ON	20	-	20	6	-	6

28.1.08 to 29.1.08	F	Nitrogen management in low land rice	2	Off	-	20	20	-	20	20
30.1.08 to 31.1.08	F	Fertilizer management in local rice cultivars	2	On	20	-	20	1	-	1
1.2.08 to 2.2.08	F	Fertilizer management in jute-rice c cropping system	2	On	20	-	20	1	-	1
5.2.08 to 6.2.08	F	Secondary and micro nutrient management of oilseed crops	2	Off	20	-	20	4	-	4
7.2.08 to 8.2.08	F	Use of bacterial fertilizers in oilseed & pulse crops.	2	On	20	-	20	5	-	5
12.2.08 to 13.2.08	F	Use of growth regulators in field crops	2	Off	20	-	20	5	-	5
15.2.08 to 16.2.08	F	Water management in summer rice	2	On	20	-	20	8	-	8
22.2.08 to 23.2.08	RY	Profitable and sustainable crop production through organic farming	2	Off	20	-	20	6	-	6
28.2.08 to 29.2.08	RY	Commercial production of vermi compost .	2	on	20	-	20	-	-	-
12.3.08 to 21.3.08	RY	Value addition in paddy cultivat^{n}	10	on	12	-	12	2	-	2
18.2.08 to 19.2.08	IS	INM strategies for sustinable crop production in irrigated areas	2	On	10	-	10	-	-	-
20.2.08	IS	Quality compost production technique	2	On	10	-	10	3	-	3

to 21.2.08										
Horticulture										
1.6.07 to 2.6.07	F	Development of coconut nursery	2	off	-	20	20	-	1	1
18.6.07 to 19.6.07	F	Profitable pineapple cultivation	2	off	20	-	20	1	-	1
28.6.07 to 29.6.07	F	Commercial drumstick cultivation	2	On	20	-	20	5	-	5
11.7.07 to 12.7.07	F	Care and management of banana plantation	2	On	20	-	20	-	-	-
3.8.07 to 4.8.07	F	Planting technique of papaya	2	Off	-	20	20	-	4	4
6.9.07 to 7.9.07	RY	Propagation technique of different fruit plants	2	Off	-	20	20	-	5	5
19.9.07 to 20.9.07	F	Nursery raising of vegetable seedlings	2	Off	-	20	20	-	12	12
26.9.07 to 27.9.07	F	Improved colocasia cultivation	2	On	20	-	20	1	-	1
15.2.08 to 16.2.08	F	Cultivation of off season vegetables	2	on	-	20	20	-	7	7
6.2.08 to 7.2.08	F	Cultivation aspects of coriander	2	Off	-	20	20	-	-	-
8.2.08 to 9.2.08	F	Nutrition management in potato	2	Off	-	20	20	-	3	3
29.1.08 to 30.1.08	F	Onion cultivation technique	2	Off	-	20	20	-	6	6
1.2.08 to	F	Role of micronutrients in vegetable crops	2	On	17	3	20	7	-	7

2.2.08										
4.2.08 to 5.2.08	F	Cultivation technique of Summer tomato	2	off	-	20	20	-	16	16
18.2.08 to 19.2.08	F	Effect of hormones in vegetabes crops.	2	On	20	-	20	7	-	7
20.2.08 to 21.2.08	F	Improved method of ginger cultivation	2	off	20	-	20	5	-	5
28.2.08 to 29.2.08	RY	Nursery raising of winter flowers	2	on	20	-	20	-	-	-
25.2.08 to 26.2.08	RY	Commercial cultivation of tuberose.	2	Off	-	20	20	-	-	-
11.3.08 to 24.3.08	RY	Nursery management	10	On	-	12	12	-	-	-
12.2.08 to 13.2.08	IS	Plasticulture technique in horticultural crops.	2	On	20	-	20	-	-	-
3.3.08 to 4.3.08	IS	Organic farming technique in horticulture for Kendrapara District .	2	on	-	20	20	-	1	1
Soil Science										
21.6.07 to 22.6.07	FW	Selection of crops and varieties for saline soil	2	On	20	-	20	-	-	-
25.6.07 to 26.6.07	FW	Soil sample collection technique and processing	2	On	20	-	20	-	-	-
29.6.07 to 30.6.07	FW	Soil test based fertilizer recommendation to rice	2	On	20	-	20	6	-	6
19.7.07 to 20.7.07	FW	Techniques of vermicomposting	2	On	20	-	20	10	-	10

21.7.07	FW	Use of amendments in acid soil	1	On	20	-	20	2	-	2
25.7.07 to 27.7.07	FW	Integrated Nutrient management in kharif rice	3	On	20	-	20	1	-	1
8.8.07 to 9.8.07	FW	Micro nutrient application in rice	2	On	20	-	20	14	-	14
6.9.07	FW	Micro nutrient management in coconut	1	On	20	-	20	5	-	5
12.9.07	FW	Fertiliser management in vegetable nursery	1	Off	20	-	20	-	-	-
09.10.07	FW	Biofertiliser application in potato	1	On	20	-	20	6	-	6
14.11.07 to 15.11.07	FW	Micro nutrient management for increasing biofertiliser efficiency.	2	Off	20	-	20	1	-	1
29.11.07 to 30.11.07	FW	Boron and Molybdnum application to cabbage & cauliflower	2	On	20	-	20	6	-	6
10.01.08 to 11.01.08	FW	Fertilizer management in summer paddy nursery	2	Off	20	-	20	7	-	7
14.01.08 to 16.01.08	FW	Cultural practices for combating salinity	3	On	20	-	20	3	-	3
24.01.08 to 25.01.08	FW	Selection of crops and varieties for acid soil management	2	On	20	-	20	1	-	1
04.02.08 to 05.02.08	FW	Application of fertilizers with respect to mode of availability	2	On	20	-	20	14	-	14
06.02.08 to 07.02.08	FW	Biofertilisers application methods	2	On	20	-	20	-	-	-
21.9.07 to 22.09.07	IS	Management of acid soils	2	On	10	-	10	-	-	-

21.02.08 to 22.02.08	IS	STBFR to crops	2	On	10	-	10	-	-	-
Plant protection										
11.6.07 to 12.607	F	Application techniques of plant protecting chemicals.	2	On	20	-	20	3	-	3
11.7.07 to 12.7.07	F	Integrated pest and disease management in jute	2	Off	20	-	20	12	-	12
17.7.07 to 18.7.07	F	Pest and disease management in banna	2	Off	20	-	20	7	-	7
20.8.07 to 22.8.07	F	Integrated Pest Management in kharif rice	2	Off	20	-	20	1	-	1
23.8.07 to 25.8.07	F	Disease management in kharif rice	2	Off	20	-	20	1	-	1
27.8.07 to 28.8.07	F	Management of pests and diseases of coconut.	2	On	20	-	20	3	-	3
29.8.07	F	Safe storage techniques for agricultural produce against biotic agents	1	On	-	20	20	-	1	1
3.9.07 to 4.9.07	F	Pest and disease of mango and their management	2	On	20	-	20	8	-	8
20.9.07	F	Use of neem based biopesticides.	1	On	-	20	20	-	-	-
22.9.07	F	Management of pest and diseases of papaya	1	Off	20	-	20	-	-	-
24.9.07 to 26.9.07	F	Pest and diseases of brinjal their management	2	Off	20	-	20	13	-	13
5.10.07 to	F	Management of biotic constraints of tomato	2	Off	20	-	20	10	-	10

6.10.07										
16.10.07 to 17.10.07	F	Pests and diseases of cauliflower and cabbage and their management	2	Off	20	-	20	7	-	7
23.10.07 to 24.10.07	F	Management of pests and diseases of green gram and black gram	2	Off	20	-	20	-	-	-
28.1.08 to 29.1.08	F	Diseases and pests of potato and their supression	2	On	20	-	20	6	-	6
28.6.07 to 29.6.07	RY	Paddy straw mushroom cultivation technique	2	On	-	10	10	-	-	-
27.9.07 to 28.9.07	RY	Honeybee rearing	2	On	10	-	10	-	-	-
30.1.08 to 1.2.08	RY	Cultivation technique of oyster mushroom	3	On	-	10	10	-	-	-
29.2.08 to 15.3.08	RY	Indigenous preparation techniques of organic inputs and their field application	10	On	-	10	10	-	-	-
15.2.08 to 16.2.08	IS	Principles and practices of integrated pest management.	2	On	10	-	10	-	-	-
18.2.08 to 19.2.08	IS	Use of biopesticides and botanicals in plant protection.	2	On	-	10	10	-	1	1
Agricultural Extension										
15.5.07 to 16.5.07	RY	Agribusiness management for youth club	2	On	-	15	15	-	4	4
19.7.07 to 20.7.07	RY	Diversification of farm enterprises	2	On	15	-	15	3	-	3
24.9.07 to 25.9.07	RY	Social resource management by farm youth community	2	On	15	-	15	3	-	3

19.6.07 to 20.6.07	IS	Training need assessment for NGO workers	2	On	-	15	15	-	5	5
20.8.07 to 21.8.07	IS	Formation and management of voluntary organization	2	On	10	-	10	2	-	2
22.10.07 to 23.10.07	IS	Leadership & group methods for Farm science club members	2	On	10	-	10	-	-	-
12.2.08 to 14.2.08	IS	Transfer of technology (TOT) methods for grass root NGOs	3	On	10	-	10	1	-	1
HOME SCIENCE										
18.6.07 to 19.6.07	FW	Preparation of some value added products from mango and pineapple	2	On	-	20	20	-	-	-
28.6.07 to 29.6.07	FW	Planning, layout and development of Nutritional garden.	2	Off	-	20	20	-	2	2
29.8.07 to 31.8.07	FW	Paddy straw mushroom cultivation and its value addition	2	On	-	20	20	-	5	5
28.9.07 to 29.9.07	FW	Nursery raising of winter vegetables	2	On	-	20	20	-	-	-
29.10.07 to 31.10.07	FW	Crop rotation in nutritional garden	2	Off	-	20	20	-	16	16
26.11.07 to 27.11.07	FW	Oyster Mushroom cultivation	2	On	-	20	20	-	3	3
06.12.07 to 07.12.07	FW	Use of improved sickle for reducing drudgery	2	On	-	20	20	-	3	3
02.01.08 to 04.01.08	FW	Semi – intensive poultry rearing	3	Off	-	20	20	-	15	15
06.02.08 to	FW	Scientific storage of produce	2	On	-	20	20	-	5	5

07.07.08										
10.03.08 to 11.03.08	FW	Paddy straw mushroom cultivation	2	On	-	20	20	-	-	-
4.9.07 to 13.9.07	RY	Preaparation of household decoratives through appliqué work	7	On	-	10	10	-	1	1
07.01.08 to 08.01.08	RY	Preparation of different Value added products from vegetables	2	On	-	20	20	-	2	2
13.02.08 to 23.02.08	RY	Masala powder making	10	On	-	12	12	-	-	-
12.03.08 to 25.03.08	RY	Preparation of golden grass products for self employment	10	On	-	12	12	-	-	-
20.6.07 to 21.6.07	IS	Planning, layout ,development of nutritional garden	2	On	-	15	15	-	-	-
04.02.08 to 05.02.08	IS	Low cost nutritional diet for pre-school children	2	On	-	15	15	-	3	3
Fishery Science										
19.6.07 to 21.6.07	F	Design and construction of fish pond	3	On	20	-	20	-	-	-
28.6.07 to 29.6.07	F	Control method of aquatic weeds & predators	2	On	20	-	20	7	-	7
28.7.07	F	Prestocking preparation of fish ponds.	1	On	20	-	20	3	-	3
6.8.07	F	Soil and water quality management in aquaculture	1	Off	15	5	20	12	5	17
8.8.07	F	Use of bio fertilizer in aquaculture	1	Off	12	3	15	2	3	5
13.8.07 to 14.8.07	F	Feed scheduling & management in aquaculture	2	On	20	-	20	2	-	2

21.01.08 to 22.01.08	F	Integrated fish farming	2	On	20	-	20	3	-	3
29.01.08 to 31.01.08	F	Fish diseases and their control	3	Off	20	-	20	5	-	5
04.02.08 TO 05.02.08	F	Freshwater pearl culture	2	On	20	-	20	1	-	1
12.02.08 to 13.02.08	F	Freshwater prawn culture	2	Off	20	-	20	2	-	2
15.02.08 to 16.02.08	F	Techniques of fish seed rearing	2	On	20	-	20	4	-	4
18.02.08 to 19.02.08	F	Method of Composite Pisciculture	2	Off	20	-	20	11	-	11
25.02.08	F	Culture of air breathing fishes	1	Off	20	-	20	1	-	1
14.01.08 to 16.01.08	RY	Self employment through aquaculture	3	On	20	-	20	2	-	2
17.01.08 to 19.01.08	RY	Ornamental Pisciculture	3	On	4	16	20	-	2	2
06.02.08 to 07.02.08	RY	Preparation of value added ready to eat fish products	2	On	-	20	20	-	2	2
08.02.08 to 09.02.08	RY	Preservation of fish and prawn	2	On	7	13	20	-	-	-
10.03.08 to 20.03.08	RY	Grow out farming of freshwater prawn	10	On	12	-	12	3	-	3
20.8.07 to 21.8.07	IS	Diversification of aquaculture practices	2	On	10	-	10	-	-	-

26.02.08 to 27.02.08	IS	Nutrient management in pisciculture	2	On	10	-	10	-	-	-
28.02.08 to 29.02.08	IS	Concepts of biotechnology and its application in aquaculture	2	On	10	-	10	-	-	-

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
-	Organic farming	Profitable and sustainable crop production through organic farming	2	20	-	20				
		Commercial production of vermicompost	2	20	-	20				
Fruit	Nursery raising	Propagation technique of fruit plants	2	-	20	20	Nursery	1	3	-
		Nursery raising of winter flowers	2	20	-	20	Nursery	1	4	
Tuberose	Floriculture	Commercial cultivation of tuberose	2	-	20	20				
Mushroom	Resource mgt.	Cultivation technique of oyster mushroom	3	-	10	10	Mushroom unit	1	4	-
		Paddy straw mushroom	2	-	10	10	Mushroom	1	4	-

		cultivation technique					unit			
Honeybee	Resource mgt.	Honeybee rearing	2	10	-	10	Honeybee	2	2	-
-	Farm mgt	Diversification of farm enterprises	2	15	-	15				
		Social resource management by farm youth community	2	15	-	15				
-	Women employment	Preparation of different value added products from vegetable and fruits	7	-	10	10				
-		Agarabati making	4	-	15	15				
-		Preaparation of household decoratives through appliqué work	7	-	10	10	Applique unit	1	15	-
		Preparation of different value added products from vegetable and fruits	10	-	12	12	Golden grass unit	1	20	
		Masala powder making	10	-	12	12				
Fish		Ornamental pisciculture	3	-	8	8	Ornamental unit	1	1	-
-		Preparation of value added fish products	2	-	20	20				
		Self employment through aquaculture	3	20	-	20	Pisciculture unit	1	5	

* ***training title should specify the major technology /skill transferred***

(E) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client PF/ RY/ EF	No. of courses	No. of Participants							Sponsoring Agency
							Male		Female		Total			
							Others	SC/ST	Others	SC/ST	Others	SC/ST	Total	
1	Farmers' awareness campaign on gramin bhandaran yojana	Seed storage	Feb' 08	3	PF	1	22	3	-	-	22	3	25	Dept. of agril. & co-operation, Minstry of Agril.
Total				**3**		**1**	**22**	**3**	**-**	**-**	**22**	**3**	**25**	

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	22	472	178	650	16	-	16	486	178	656
Kisan Mela	-	-	-	-	-	-	-	-	-	-
Kisan Ghosthi	1	10	-	10	-	-	-	10	-	10
Exhibition	-	-	-	-	-	-	-	-	-	-

Film Show	26	315	76	391	5	-	5	320	76	396
Method Demonstrations	22	382	58	440	-	-	-	382	58	440
Farmers Seminar	-	-	-	-	-	-	-	-	-	-
Workshop	-	-	-	-	-	-	-	-	-	-
Group meetings	12	245	32	272	-	-	-	245	32	272
Lectures delivered as resource persons	27	1548	320	1868	32	-	32	1580	320	1900
Newspaper coverage	8	-	-	-	-	-	-	-	-	-
Radio talks	14	-	-	-	-	-	-	-	-	-
TV talks	7	-	-	-	-	-	-	-	-	-
Popular articles	5	-	-	-	-	-	-	-	-	-
Extension Literature	7	-	-	-	-	-	-	-	-	-
Advisory Services										
Scientific visit to farmers field	80	698	190	888	-	-	-	698	190	888
Farmers visit to KVK	552	501	51	552	-	-	-	501	51	552
Diagnostic visits	2	-	-	-	-	-	-	-	-	-
Exposure visits	4	45	-	45	-	-	-	45	-	45
Ex-trainees Sammelan	3	34	11	45	-	-	-	34	11	45
Soil health Camp	2	135	-	135	-	-	-	135	-	135
Animal Health Camp	-	-	-	-	-	-	-	-	-	-
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	2	135	-	135	-	-	-	135	-	135
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	12	24	128	150	-	-	-	24	128	150
Mahila Mandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	5	75	28	103	11	-	11	86	28	1114

Any Other (Specify)	-	-	-	-	-	-	-	-	-	-
Total	**813**	**4619**	**1072**	**5691**	**64**		**64**	**4683**	**1072**	**5755**

3.5Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)	Value (Rs.) (approx.)	Provided to No. of Farmers
CEREALS	Paddy	CR-1014	19.1	21,000	-
		Lalat	11.5	12650	45
		Khandagiri	3.3	3630	18
		BPT-5204	13.6	14960	-
		Pratikshya	24.0	26400	-
		Swarna	22.1	24300	-
OILSEEDS					
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)	Dhanicha		2.45	5500	-

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	93.6	1,02,940	-
2	OILSEEDS			
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS	2.45	5,500	-
TOTAL		**96.05**	**1,08,440**	**-**

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES	Brinjal		3500	700/-	25
	Chilli		18,500	3,700/-	45
	Drumstick		100	300/-	23
	Papaya		150	450/-	25
	Cabbage		1000	200/-	10
	Cauliflower		1000	200/-	8
	Tomato		3,500	700/-	32
	Knol khol		1000	200	25
FOREST SPECIES					

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
ORNAMENTAL CROPS	Tuberose bulb		5500	1100/-	2
PLANTATION CROPS					
Others (specify)					

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES	28750	6450	193
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS	5500	1100	2
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL	**34250**	**7550**	**195**

BIO PRODUCTS

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
1						
2						

BIOFERTILIZERS						
1	Vermicopmost			500	5000/-	5
2						
BIO PESTICIDES						
1						
2						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS	Vermicompost	-	500	5000	5
3	BIO PESTICIDE					
	TOTAL		**-**	**500**	**5000**	**5**

LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle						
Sheep and Goat						

Poultry						
Fisheries	Carp	IMC		1	50/-	
Others (Specify)						

SUMMARY						
Sl. No.	**Type**	**Breed**	**Quantity**		**Value (Rs.)**	**Provided to No. of Farmers**
			Nos	**Kgs**		
1	CATTLE					
2	SHEEP & GOAT					
3	POULTRY					
4	FISHERIES	IMC		1	50	2
5	OTHERS					
	TOTAL			**1**	**50**	**2**

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

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

(B) Literature developed and published

Item	**Title**	**Authors name**	**Number**

Research paper	Role of post-emergence herbicides in reducing cost of cultivation of jute crop	S.K.Swain L.N.Mahapatra B.K.Dash	Road map for agricultural development in Orissa-seminar
	Management of blast disease in kharif paddy	B.K.Dash S.K.Swain	Road map for agricultural development in Orissa-seminar
	Effect of dietary Vitamin C on immunity ,growth and survival of *Labeo rohita* fingerlings	Dr.C.K.Mishra Dr.B.K.Dash	Aquaculture Nutrition
	Effect of long term administration of Levamisole on immunity ,growth and survival of *Labeo rohita* fingerlings	Dr.C.K.Mishra Dr.B.K.Dash Dr.S.C.Mukharjee	Aquaculture Nutrition
Technical Reports	Annual Reports 2007-08 FLD seasonal Report (O & P) 2007-08 Annual Action Plan 2008-09		
Technical bulletins	SRI method of rice cultivation Ptoblematic soils and their management Magur culture Non paddy crops in upland		
Popular articles	Rodent control in poultry farms Flood disaster management of pisciculture tanks Rice cum fish culture(Oriya)		

	Role of micronutrient in crop production Nitrogen loss from soils of Orissa Use of beneficial microbes in agriculture Flood disaster management of pisciculture tanks (in oriya) Innovative ways of pest control for stored grains		
Extension Literarture	Contingent flood planning		

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(C) Details of Electronic Media Produced: Nil

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

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

BETELVINE : BIG INCOME FROM SMALL AREA

1. Name of the Enterprise /Crop/Practice : Betelvine Cultivation (Baraj)

2. Name and address of the farmer being reported : Sri Suryamani Behera
   At- Jajanga, Po- Kapaleswar
   Dist-Kendrapara-754211.

3. Initial status /Practice of the farmer before K.V.K intervention (indicate the year) : Paddy and vegetable in 1998
4. K.V.K intervention in terms of vocational training /FLD/OFT/any extension method for improvement of the enterprise.
    - FLD on improved betelvine-baraj raising.
5. Innovative Extension approach & methodology adopted for implementation of KVK of interventions.
    - Skill training on Baraj raising
    - Method demonstration on Baraj maintenance
    - Diagnostic field visit on problem solving
6. Adoption of improved practice by the farmers after KVK intervention
    - Scientific Baraj layout technique
    - Improved maintenance and care of betelvine Baraj
    - Organic plant protection methods
    - Preparation of Bordeaux mixture & neem extracts
    - Betel leaf plucking,grading & curing methods
7. Physical/Financial Development over previous practice.
    - **Net profit : 75000/- per year per 0.1ha.**

8. Action photographs of the enterprise/practice and farmer

9. Farmers' reaction , feedback on adoption of technology/practice.
    - The enterprise is highly remunerative over field crops
    - No problem of marketing /High market demand
    - More profit over small area
    - Planning to expand Baraj area and units.
10. Extent of diffusion effect of the newly adopted technology/practice in the nearby area

- More number of farmers & farm youth have come up to take betelvine cultivation through KVK guidance
- Farmers are aware of the technologies and resources required for betelvine cultivation
- Farm diversification to cash & plantation crops for more profit

11. Follow up actions by KVKs Scienticts if any.
    - Regular field visit to the Baraj site
    - Free technical guidance
    - Input arrangement & market linkage
    - Publication of the success story and recommending the farmer for awards of excellence.

HEALTH AND INCOME IN ONE: NUTRITION GARDEN

1. Name of the Enterprise /Crop/Practice : Nutrition Garden

2. Name and address of the farmer being reported : Mrs Satyabhama Pradhan
   At- Kanpura, Po- Kapaleswar
   Dist-Kendrapara-754211.

3. Initial status /Practice of the farmer before K.V.K intervention (indicate the year) : No homested based enterprise in 2003-04

4. K.V.K intervention in terms of vocational training /FLD/OFT/any extension method for improvement of the enterprise.
    - FLD Programme

5. Innovative Extension approach & methodology adopted for implementation of KVK of interventions.
    - Technical guidance & training
    - Critical input support
    - Field day & diagnostic field visit
    - Accounting & marketing linkage

6. Adoption of improved practice by the farmers after KVK intervention
    - Planning & layout of nutritional garden
    - Seed treatment, nursery raising and planting details
    - Crop rotation in subplots
    - Plant protection and bio-control methods
    - Produce , harvesting, marketing & cost-benefit calculation

- Post harvest and value addition technique.

7. Physical/Financial Development over previous practice.
   - Net Profit: Rs14000/- per 0.4ha per year
8. Action photographs of the enterprise/practice and farmer

9. Farmers' reaction , feedback on adoption of technology/practice.
   - Year round fresh vegetable for the family
   - Free home Nutrition support
   - Home stead put to economic use
   - Women in agriculture and addition to family income
   - Additional resource for investment in improved farming
   - Expansion into commercial vegetable cultivation
   - Productivity engagement of family members through vegetable preservation

10. Extent of diffusion effect of the newly adopted technology/practice in the nearby area
    - Mrs Pradhan has expanded her area under nutrition garden due to increased profit
    - She has started commercial vegetable cultivation
    - 12 no of Women SHG members have started nutritional garden in their home stead for profit, nutrition & employment
    - Most of village families of Kanpura are all set to start nutritional garden
    - Successful women have utilized their resources for other enterprise like diary & broiler poultry.

11. Follow up actions by KVKs Scientists if any.
    - Constant field visit & diagnostic service
    - Plant protection support for the nutritional units
    - Technical guidance to other farm women on starting the enterprise

- Marketing linkage & accounts keeping for the entrepreneur women.

Programme and technical support for starting other enterprises through accrued profit recycling

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

- Use of granular pesticide in paddy nursery 1week before uprooting to avoid early stem borer attack.
- Use of weedicide (Butachlor) in direct sown upland paddy with the use of spreader o check weed menace.
- Use of post emergence herbicide Qizalfop-ethyl for jute weed control
- Introduction of scented rice for high yield over local basmati variety.
- Biofertiliser inoculation in nonleguminous crops for better crop growth.
- Popularising Magor culture in small backyard water bodies
- Organizing youth entrepreneurship to take up profitable non-crop enterprises.
- Emphasis on poultry, goatery and mushroom cultivation for women self-employment.
- Krushak sampark village visits for diffusion of latest farm and home messages.

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)

Title of ITK: Application of Asafoetida (hing) as feed attractant in the supplentary diet of carps.

Description of ITK

Practising farmers of Kendrapara district are applying Asafoetida (hing) as feed attractant in the supplementary diet such as groundnut oil cake and rice bran mixtures. About 1gm of hing /5kg of feed is used . This measured quantity of hing is soaked overnight and a solution of hing is prepared and blended with moist feed in morning hours. As observed by the farmers there is an increase of 10-20% in fish production by adopting this practice

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Fish	Application of Asafoetida (hing)	As feed attractant in the supplementary diet of carps.

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

- Identification of courses for farmers/farm women: PRA
- Rural Youth: PRA
- Inservice personnel: Nomination by authority

3.11 Field activities

i. Number of villages adopted : 5

ii. No. of farm families selected : 250

iii. No. of survey/PRA conducted: 3

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Complete

1. Year of establishment : 2005

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Servo voltage stabilizer (7.5) KVA	1	13500
2	Kelplus Automatic Nitrogen estimation system		
(i.)	Electronic automatic kelplus microprocessor based twenty place micro Block digestion system	1	121470
(ii.)	Electronic acid neutralizer scrubber	1	51470
(iii.)	Electronic kelplus micro processor based automatic nitrogen distillation system	1	156530
(iv.)	Electronic titration system for kelplus system	1	52000
3	151280 U controller based flame photometer with filter (NA & K) & compressor & instrument	1	35200
4.	101661 U controller based vis spectrophotometer with digital W/L display (340-990 nm) instrument	1	30100
5.	Plant sample grinder/laboratory mill	1	8000
6.	Hot water bath	1	4000
7.	Horizontal shaker	1	11000
8.	Distilled water unit/still	1	7200
9.	Hot air oven	1	10500
10.	Laboratory contrifuge	1	9000

11.	Sieves (10 mesh)	1	700
12.	Sieves (60 mesh)	1	423
13.	Soil auger/sampling tube (screw/Tubescrew augur)	1	1700
14.	Soil thermometer alongwith iron frame support	1	2712
15.	Microscope Olympus ML-m	1	17900
16.	Microscope Olympus MS-13	1	26890
17.	BOD incubator (low temperature) satyam	1	42000
18.	Micro processor based PH meter, ESICO (EI)	1	10200
19.	Conductivity meter ESICO(EI)	1	10200
20.	Refrigerator Godrej -165 lit. Ordinary	1	9200
21.	Electronic top pan balance (420 gm)	1	95000
22.	Electronic physical balance (50 gm-1 kg.)	1	4500
23.	Soil augur, tube augur	1	2850
24.	Stirrer	1	8200
25.	Bouyoucos hydrometer with compatible motor	1	6500
26.	Hot plate	1	2520
27.	Colony counter	1	4500

3. Details of samples analyzed so far:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	320	135	10	-
Water Samples	10	6	4	-
Total	**330**	**141**	**14**	**-**

4. 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)
Paddy straw mushroom cultivation	30	50	-	Rs 28/-per bed
Oyster mushroom cultivation	30	70	-	Rs 25/-per bed
Bee keeping	10	50	-	Rs 500/- per box/annum
Chemical weed control in paddy	20	75	Rs 10000/- per ha.	Rs 12000/-per ha.
Use of Nimin in low land paddy	20	85	Rs 10400/- per ha	Rs 11200/- per ha
Preparation of household decorative through applique works	35	10	Rs 200/- per month	Rs 300 to 350/- per month
Development of nutritional garden (seed treatment)	65	14	Rs 300/-	Rs 500/- per month
Varital substitution in deep water paddy	20	85	RS 950/- per ha	Rs 5500/- per ha

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

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

Mushroom Cultivation

Mushroom cultivation has been people's movement towards rural self employment in the adopted villages of KVK, Kendrapara. About 250 numbers of enthusiastic entrepreneurs including 75 backward women below poverty line have adopted the enterprise through KVK demonstration assistance. Plenty of straw availability, simple technology and high market demands aspects are the driving force behind large scale adoption of the technology. Each bed of mushroom gives a net return of Rs 100/- with very meager initial investment. The adopted men and women entrepreneur earn about Rs 2500/ each month by maintaining strength of 10 beds regularly. This has helped in their improvement of their family economy, self employment, natural resource utilization bring an example of mass emulation in the district.

4.3. Details of impact analysis of KVK activities carried out during the repo rting period

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Varital substitution in deep water paddy	20	85	RS 950/- per ha	Rs 5500/- per ha
Azotobacter inoculation in potato tuber	25	56	Rs50000/- per ha	Rs60000/- per ha
Fish-cum Duck farming	15	60	Rs32000/- per ha	Rs59500/- per ha

5. LINKAGES

Linkage with different Organisation.

Sl.No	Name of Organisation	Nature of linkage
1	State Deptt. (Agriculture/Horticulture/Soil Conservation)	- Sponsored training programmes - HRD of extension functionaries - Farmer-scientist interaction - Input procurement - ATMA activities like joint diagnostic survey,Joint action plan development joint implementation, participation in meeting etc.

2	M.S. Swaminathan Research Foundation	- HRD - Survey work - Input supply - Popularization of organic farming in bio-village scheme
3	Local NGO's namely Nature's Club, Alacrity, CARD, Krushak Manch, Anchalika Gramya Unnayan Parishad, Parivartan, Sambhabana	- HRD for NGO functionaries - Input supply - Plantation programme - Project formulations
4	Regional Plant Resource Centre , Bhubaneswar	- Input Procurement like tissue culture banana & other ornamental plants
5	C.I.F.A.	- H.R.D. - Input procurement
6	NABARD	- Collaborative awareness
7	CRRI, Cuttack	- Input Procurement
8	All India Radio, Cuttack	- Recording Programmes - Member (SAC)
9	D.R.D.A.	- Information Source
10.	News paper media (Local dailies)	- Publication work

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Gramin Vandaran Yojana	27-29 Feb 2008	Minstry of Agriculture	Rs.27,000/-

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage	Remarks
1	Preparation of strategic report	Guiding the team for correction of first hand information	
2	Formulation of block action plan	Scrutiny of the block action plan	
3	Technical training	Imparting training to block level officers	
4	Refinement of technology	Conducting farmers' participatory research	

5.4 Give details of programmes implemented under National Horticultural Mission

5.5 Nature of linkage with National Fisheries Development Board : Not operational

S. No.	Programme	Nature of linkage	Remarks
1			

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm): No Unit

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

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Paddy	18.6.07	14.12.07	1.0	CR 1014	F.S	19.1	76,959/-	-	
	18.6.07	25.11.06	0.5	Swarna	F.S	22.1		-	
	18.7.07	27.11.07	0.8	Pratikshya	F.S	24.0		-	
	15.7.07	1.12.07	0.4	BPT 5204	T.L	13.6		-	
	30.7.07	4.12.07	0.4	Lalat	F.S	11.0		-	
	30.7.07	22.11.07	0.5	Khandagiri	F.S	3.30		-	
Others	30.6.07	7.11.07	1	Dhanicha	T.L	2.45	5,614/-	-	

Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

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

6.4 Performance of instructional farm (livestock and fisheries production) : Nil

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

6.5 Utilization of hostel facilities

Accommodation available (No. of beds): Nil

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2006	-	-	-

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	State Bank of India	Campus of OUAT, Bhubaneswar	-
With KVK	State Bank of India	Kendrapara	11387961417

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

Item	Released by ICAR(Rs.)		Expenditure(Rs.)		Unspent balance as on 1st April 2007 (Rs.)
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Inputs	-	Rs.11,900.00	-	Rs.9,550.00	Rs.2,350.00
Extension activities	-	Rs.1,750.00	-	Rs.1,750.00	-
TA/DA/POL etc.	-	Rs.1,750.00	-	Rs.1,750.00	-
TOTAL	**-**	**Rs15,400**	**-**	**Rs.13,050.00**	**Rs.2,350.00**

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2007
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Inputs	-	Rs.8,840.00	-	Rs.4,990.00	Rs.3,850.00
Extension activities	-	Rs.1,315.00	-	Rs.1,315.00	-
TA/DA/POL etc.	-	Rs.1,965.00	-	Rs.1,965.00	-
TOTAL	**-**	**Rs.12,120.00**	**-**	**Rs.8,270.00**	**Rs.3,850.00**

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

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

7.5 Utilization of KVK funds during the year 2006-07 and 2007-08 ***(Rs. in lakhs)***

S. No.	Particulars	2006-07			2007-08		
		Sanct-ioned	Released	Expen diture	Sanct-ioned	Released	Expenditure
A. Recurring Contingencies							
1	**Pay & Allowances**	28.00	23.00	27.18929	32.00	32.00	31..21668
2	**Traveling allowances**	0.75	0.75	0.75	1.0	1.0	0.49295
3	**Contingencies**						
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	3.15	3.15	3.15	6.0	6.0	5 .38087
B	POL, repair of vehicles, tractor and equipments						

C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)						
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)						
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)						
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)						
G	Training of extension functionaries						
H	Maintenance of buildings						
I	Establishment of Soil, Plant & Water Testing Laboratory						
J	Library						
TOTAL (A)		**31.90**	**26.90**	**31.08929**	**39.0**	**39.0**	**32.0905**
B. Non-Recurring Contingencies							
1	**Works**	18.30	18.30	18.30			
2	**Equipments including SWTL & Furniture**	1.00	1.00	1.00			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	0.45	0.45	0.45			

4	**Library** (Purchase of assets like books & journals)	0.10	0.10	0.10			
TOTAL (B)		**19.85**	**19.85**	**19.85**			
C. REVOLVING FUND		-	-	-			
GRAND TOTAL (A+B+C)		**23.00**	**23.00**	**23.00**			

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2005 to March 2006	0.01	1.24,500	0.63	0.01
April 2006 to March 2007	0.01	1.51,451	0.90	0.01
April 2007 to March 2008	0.01	1,78,436	0.86660	0.01

8. Please include information which has not been reflected above (write in detail)

8.1 Constraints

1. **(a) Administrative- Nil**

   (b) Financial- Nil

   (c) Technical- Nil

(Signature of Programme Coordinator)