ANNUAL REPORT KRISHI VIGYAN KENDRA GAJAPATI, R. UDAYAGIRI
(01-04-2007 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	
Gajapati	At - Krishi Vigyan Kendra, PO - R. Udayagiri, Dist - Gajapati, Pin - 761016	06817	240362		gajapatikvk@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, Bhubaneswar	Vice-Chancellor, Orissa University of Agriculture & Technology. PO – Suryanagar Bhubaneswar – 751 003	0674	2407780	2407780	vc@ouat.ori.nic.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Hrusikesh Patro	0674-2560071	9437163376	

1.4. Year of sanction: February, 2007

1.5. Staff Position of K.V.K, Gajapati (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. Hrusikesh Patro	Programme Coordinator	Agronomy	12,000-420-18,000 Rs. 13,680	02.05.05	Permanent	General
2	Subject Matter Specialist	Mr. David James Bage	Subject Matter Specialist	Agril. Extension	8000-275-13500/- Rs. 8550-	16.01.06	Temporary	ST
3	Subject Matter Specialist	Dr. Rajan Kumar Tarai	Subject Matter Specialist	Horticulture	8000-275-13500/- Rs. 8275/-	19.07.06	Temporary	General
4	Subject Matter Specialist							
5	Subject Matter Specialist							
6	Subject Matter Specialist							
7	Subject Matter Specialist							
8	Programme Assistant	Mrs. Sumita Acharya	Programme Assistant	Home Science	5500-175-9000/- Rs. 5675/-	12.10.06	Temporary	General
9	Computer Programmer	Mr. Biswajit Pradhan	Programme Assistant	Computer	5500-175-9000/- Rs. 5870/-	27.02.06	Temporary	General

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)
10	Farm Manager	Mr. Manas Ranjan Pattanaik	Farm Manager	Agri. Econ.	5500-175-9000/- Rs. 5675/-	01.08.06	Temporary	General
11	Accountant / Superintendent	Mr. Subash Chandra Swain	Section Officer, Level -II	Accounts & Office	5,900-200-9,700/- Rs. 6350/-	10.08.07	Permanent	General
12	Stenographer	Mr. Sadanand Mohanta	Jr.Steno-cum-Computer Operator	Stenography	4000-100-6000/- Rs. 4100/-	16.10.06	Temporary	General
13	Driver	Mr. Sampada Kumar Sethi	Driver-cum-Mechanic	Driving/Mechanic	3050-75-3950-80-4590/- Rs. 3050/-	01.08.07	Temporary	SC
14	Driver							
15	Supporting staff	Raja Kishore Mohapatra	Peon / Attendant		2,550-55-2600-60-3200 Rs. 2550/-	20.12.07	Temporary	General
16	Supporting staff	Prakash Gouda	Peon / Attendant		2,550-55-2600-60-3200 Rs. 2550/-	26.12.07	Temporary	General

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	Yet to be constructed
2.	Under Demonstration Units	Yet to be constructed
3.	Under Crops	-
4.	Orchard/Agro-forestry	11.75
5.	Others	12.86

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Admin. Building	Not available						
2.	Farmers Hostel	Not available						
3.	Staff Quarters (6)	Not available						
4.	Demo. Units (2)	Not available						
5	Fencing	Not available						
6	Rain Water harvesting system	Not available						
7	Threshing floor	Not available						
8	Farm godown	Not available						

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep Make : Mahindra	November, 2005	4,50,000/-		Good

Model : Bolero LX				
Tractor with Trailer Make : Massey Fergusson Model : MF - 45	March, 2006	4,50,000/-		Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Desktop Computer with Printer	March, 2006	1,00,000	Good
LCD Projector	March, 2006		Good
White Marker Board	March, 2006		Good

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

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	26/10/2007	30	1. Varieties already popular with farmers should be included in OFT and FLD programmes. 2. for wilt management of solanaceous crop Karanj @ 2.5 q/ha. Is equally effective as neem cake. 3. in case of vermicomposting such as maioze stlks and millets stalks may be tried alone and in combination with forest litters. 4. in case of SRI method of Rice cultivation should be grown organically and varieties having profuxe tillering habits should be tested 5. the efficacy of Paclobutrazol the flowering hormone should be tested to induce regular bearing in mango. 6. maize stalks, Suan straw and leaves of lantana camera may tried as mulching materials in ginger 7. besides turmeric pineapple and ginger may be evaluated in mango orchards. 8. value addition on ragi may be popularised. 9. to address the problem of malnutrition in rural children egg may be included in the diet instead of milk and tested against existing diet of low-nutritive value.	Based on these recommendations some of the OFTs and FLDs have been proposed.

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

2. DETAILS OF DISTRICT (2006-07)

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

S. No	Farming system/enterprise
1.	Crop – cereals- paddy, Maize, ragi, Millets (Kodo, Suan, bajra, jowar) small millets, horsegram Pulses – Blackgram, Green gram, Arhar Oilseeds – Sesamum, Niger, Mustard Fibre crops – Cotton Fruit crops – Mango, cashew, guava, pineapple

	Commercial crops – Sugarcane, Citrus (lemon) Spices and condiments – Chilli, Turmeric, ginger Livestock – Cattle goat, sheep, poultry, pig Forestry – Teak, Sal, Mahul
2	Cropping system – Rice-Blackgram/greengram/vegetables Maize-fallow Maize-Horsegram
3	Farming system - Rice + Dairy - Rice + Goatery - Rice + Poultry

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

S. No	Agro-climatic Zone	Characteristics
1	North Eastern Ghat Zone	Climate is hot, moist and sub humid, Mean annual rainfall is 1597, Mean max. temperature is 37.0°C and mean mimimum temperature is 10.4°C. Soil group is brown forest ,lateritic, alluvial,red ,mixed red and black The district of Gajapati comprises of one agriculture district i.e. Paralakhemundi with one sub-division and three Tahasils i.e. Paralakhemundi R.Udayagiri and Mohana. There are 5 tribal blocks i.e. R.Udayagiri, Mohana, Gumma, Rayagada and Nuagada and 2 other blocks Gosani & Kasinagar. The district comes under North Eastern Ghat Agroclimatic Zone. The normal rainfall of the district is 1400 mm with 60-70 rainy days with major precipitation occurring during June-September. Winter and Summer rain appears to be scanty, uncertain and erratic. The soil type of the district is mostly brown forest soil, light textured and acidic in nature with medium % of organic matter, N, P & K. The total population of the district as per 2001 census is about 5, 18, 448 out of which 2,23,588 ST 39, 898 SC and the rest of OBC category of which 90,641 are cultivators and 1,24,654 are agricultural labourers. The district has adequate natural resources for the promotion of Horticulture, agro-industries & forestry. The temperature of the district varies from 100 to 370C in the tribal blocks where as 160C to 390C in non tribal blocks with high humidity. The rural farming community comprises 90% of total population whose livelihood is dependent exclusively on farming and forest produce.

S. No	Agro ecological situation	Characteristics
1	Red loam soil, Moderate rainfall, High elevation Rainfed	Soil type is ultisol and rainfall – 1100-1300 mm
2	Red loam soil, Low rainfall, moderate elevation, Moderate irrigation	Soil type is ultisol and rainfall – 900-1100 mm

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Brown forest, lateritic, alluvial, red, mixed red and black	The soils are strongly to moderately acidic with low to medium organic status and poor water retentive capacity, deficient in N,P, Ca, Mg, and low cation	720

		exchange capacity ,water soluble phosphates fixed and becomes non available to crop plant	

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

Sl. No	Name of the Crop	Rabi 2006-07*			Kharif 2007*		
		Area (in ha.)	Yield rate (q/ha)	Production (in MT)	Area (in ha.)	Yield rate (q/ha)	Production (in MT)
01	Hyv. Paddy	684	18.50	12600	27294	30.15	82286
2.	Normal Paddy				338	12.87	435
A	**Total Paddy**				**27632**	**29.94**	**82721**
3.	Wheat	41	18.00	740			
4.	Maize	156	15.50	2420	7160	14.60	10454
5.	Local maize				1130	12.90	1458
6.	Ragi	1117	12.00	13400	10742	8.70	9345
7.	Jowar				2105	6.00	1263
8.	Bajra				1033	6.15	635
9.	Small millets				1111	5.10	567
B	**Total Millets**				**23281**	**10.12**	**23722**
C	**Total Cereals**	**1998**	**14.59**	**29160**	**50913**	**20.91**	**106443**
10	Arhar				4885	8.20	4006
	Bengal Gram	67	5.55	370			
	Moong	6125	5.50	33650	626	4.90	307
	Biri	7624	5.55	42300	3300	5.35	1766
	Kulthi	4365	4.00	12460			
	Field Pea	373	7.25	2700			
	Cow Pea	295	7.50	2200			
	Other Pulses	943	6.50	6130	3264	4.60	1501
B	**Total Pulses**	**19792**	**5.30**	**104810**	**12075**	**6.28**	**7580**
	Ground Nut	986	14.25	14050	848	1.20	950
	Til	6465	3.15	20360	1091	4.15	453
	Caster	69	5.70	390	599	6.10	365
	Mustard	1295	4.65	6000			
	Niger	3246	4.95	16080	1124	4.80	540
	Sun Flower	888	6.85	6080			
	Total Oil Seeds	**12949**	**4.86**	**62960**	**3662**	**6.30**	**2308**
	Sugar Cane	416	90.00	37440	381	90.00	3429
	Potato	109	85.00	9270			
	Onion	417	82.00	34190			
	Sweet potato				1260	80.00	10080
	Other Vegetable	9536	92.00	877310	7875	96.00	75600
	Total Vegetable	**10062**	**91.51**	**920770**			
	Chilly	1095	10.00	10950	425	10.00	425
	Garlic	30	30.00	900			
	Coriander	107	5.05	540			
	Turmeric				901	16.30	1469
	Ginger				580	21.60	1253

	Total Spices	**1232**	**10.06**	**12390**	**1906**	**16.51**	**3147**

*** Sources : District Agril. Strategy Reports for Rabi 2007-08 & Kharif 2008, District Agriculture Officer, Paralakhemundi**

2.6 Details of Operational area / Villages (2006-07)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Mohana	Mohana	Gobindpur	Paddy, Ragi, Maize, vegetables	Indiscriminate use of fertilizers, use of traditional varieties and practices leading to low productivity	Varietal replacement with high yielding varieties Integrated Nutrient management Integrated pest management
2.	R. Udayagiri	R. Udayagiri	Lubursing	Paddy, Maize, Vegetables	Indiscriminate use of fertilizers, use of traditional varieties and practices leading to low productivity	Varietal replacement with high yielding varieties Integrated Nutrient management Integrated pest management
3.	R. Udayagiri	R. Udayagiri	Sabarpalli	Paddy maize, Ragi, Vegetables	Imbalance fertilizer use, low rate of seed replacement, poor irrigation management, Indiscriminate use of pesticide and fungicide, lack of knowledge in improved farm implement	INM in major field crops, IPM and IDM in cotton, paddy and vegetables, Awareness of improved farm implements, seed replacement
4.	R. Udayagiri	Nuagada	P.Antrada	Paddy, Arhar,Vegetables (Brinjal Cauliflower, Cabbage, Tomato)	Imbalance fertilizer use, low rate of seed replacement, poor irrigation management, soil erosion, Indiscriminate use of pesticide and fungicide, lack of knowledge in improved farm implements	Organic farming, INM in major field crops, IPM and IDM in cotton, paddy and vegetables, Awareness of improved farm implements, seed replacement, watershed management approach

5.	R. Udayagiri	Nuagada	Luhangar	Paddy,Ragi, Cabbage, Cauliflower, tomato, Sunflower	Low use of fertilizers	INM in major field crops, IPM and IDM in cotton, paddy and vegetables, Awareness of improved farm implements, seed replacement, watershed management approach

2.7 Priority thrust areas

S. No	Thrust area
1	Varietal replacement with high yielding varieties
2	Organic cultivation
3	Integrated Nutrient management
4	Scientific seed production
5	Integrated pest management
6	Seed and seedling treatment
7	Scientific storage methods
8	a) Value addition and preservation
	b) Crop diversification
9	Mushroom cultivation
10	Scientific graft/gootee production
11	Apiculture
12	Improved pest management
13	Intercropping
14	Varietal replacement
15	Irregular bearing of fruit
16	Fruit production technology
17	Acid soil management
18	Composting
19	Crop diversification
20	Natural Resource management
21	Entrepreneurship development
22	Integrated weed management
23	Production technology

3. TECHNICAL ACHIEVEMENTS

3.1. A. Abstract of interventions undertaken

S. 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	Varietal replacement with high yielding varieties	Paddy Paddy Maize	a) Cultivation of traditional paddy varieties b) distress sale of coarse grain paddy	1 Identification of suitable improved variety of paddy under lowland 2 Identification of suitable variety	• Cultivation of better variety of paddy as a substitute to MTU 7029 • Cultivation of better variety of superfine paddy • Introduction of hybrid maize				
2	Organic cultivation	Paddy/ Cabbage	a) Lack of knowledge regarding use of chemical fertilisers in crops. b) Scanty use of bio fertilizers and bio pesticides in paddy maize and pulses. c) More use of inorganic fertilizers and pesticides leads to human animal soil health hazards d) Inadequate use of manures and fertilizers in sweet orange		• Dhanicha as a green manuring crop • cultivation of organic rice • Bio intensive pest management in cabbage	• Application of biofertilizer. • Development of Azolla & BGA nursery. • Compost making • use of biopesticides in solanaceous crops • 5. Organic cultivation of ginger and turmeric			
3.	Integrated Nutrient management	Paddy, maize, Sugarcane, vegetables	In judicious application of fertilizers in paddy maize, vegetables & sugarcane	1. INM in Maize		1. Weed and nutrient management in maize 2. INM in	1. INM in vegetables		

S. 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.
						sugarcane 3. Soil sampling and analysis of primary nutrients 4. Nutrient management in Maize 5. INM in rice			
4.	Scientific seed production	Cereals, pulses and vegetables	Non availability of quality seeds of cereals, pulses and vegetables	INM in Maize		1. Seed production in Pulses 2. Seed production in cereals 3. seed Production in vegetables			
5.	Integrated pest management	Paddy, oilseeds and brinjal	Injudicious and indiscriminate use of pesticides in paddy, oilseeds and brinjal			1. Wilt management in solanaceous vegetable. 2. IPM in rice. 3. Insect pest control in Brinjal. 4. IPM in oilseeds. 5. IPM in paddy			
6.	Seed and seedling treatment		Higher seedling mortality due to diseases and pests No use of seed treating chemicals			1. Seed treatment and Rhizobium innoculation in pulses 2. Techniques of seed and seedling treatment in crops			

S. 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.
7.	Scientific storage methods	Pulses and paddy	Improper storage of food grains and seed materials using traditional methods	Scientific method of storage of pulses		1. Storage of Groundnut seeds. 2. Management of stored grain pests.			
8.	a) Value addition and preservation b) Crop diversification	Fruits & vegetables	Distress sale of fruits and vegetables			1. Preparation of value addition from different seasonal fruits (lemon) and Vegetables (tomato). 2. Preparation of value added products 3. Preparation of value addition from different seasonal fruits and vegetable			
9.	Mushroom cultivation	Mushroom	a) Non utilization of lean period b) Prevalence of malnutrition in farmer families c) Contamination of paddy straw during winter	Yield performance of oyster mushroom through treatment of paddy straw	1. Paddy straw mushroom cultivation 2. Nutritional Gardening	1. Therapeutic nutrition 2. Raising technique of Mushroom	1. Nutritional gardening		
10	Scientific graft/gootee production	Mango, Guava and Litchi	Cultivation of seedlings of mango, guava and litchi fruits from seed			1. Raising of fruit nursery			
11.	Apiculture	Apiculture	Non use of forest plants in hills for production of Honey			1. Bee keeping	1. Improved methods of bee keeping		
12.	Improved pest	Coconut	Infestation of	Eriophyid mite control in					

S. 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.
	management		eriophyid mite in coconut	coconut					
13.	Intercropping	Orchards	Growing of low yielding pulses and other minor millets in interspaces of mango, litchi and guava orchards	Identification of suitable intercrops in mango orchard					
14	Varietal replacement	Ragi	Cultivation of low yielding traditional ragi varieties		Cultivation of high yielding variety of ragi				
15	Irregular bearing of fruit	Mango/ Guava/ Litchi./Cashew	Irregular bearing of seedlings from mango plants		Cultivation of improved variety of mango				
16	Fruit production technology		Cultivation of low yielding traditional varieties in guava			1. Improved guava cultivation			
17	Acid soil management	Soil	Low pH of soil			1. management of acid soils			
18	Composting	Compost	Improper utilization of waste materials			1. Bio dynamics of compost making			
19	Crop diversification		Monocropping of paddy, maize and Ragi			1. Farming system for hills 2. Crop substitution in rainfed hilly slopes 3. Prospects of off season vegetable	1. Crop planning in hills		
20	Natural Resource management		Improper utilization of natural resources in watersheds			1. Watershed management 2.	1. In-situ soil and water conservation		
21	Entrepreneurship development		Subsistence level of agriculture			1. Entrepreneurship			

S. 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.
						development in agriculture. 2. Fabric Painting 3. Stitching of dress materials 4. fabric painting 5. Extension management skills			
22	Integrated weed management		High level of weed incidence			1. Weed Management in upland crops 2. Growing of intercrops in fruit orchards			
23	Production technology		Improper Management of orchards and crops			1. Management of lemon orchards 2. management of fruit orchard 3. improved cultivation practices of litchi papaya 4. Improved cultivation of mango and guava 5. Improved cultivation practices of Cole crops 6. Raising of vegetable nursery	1. Use of growth regulators in mango and citrus		
24	Farm Mechanisation	Farm mechanisation	Low level of mechanisation			1. Operation and maintenance of sprayers			

S. 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.
25	SHG & leadership development	SHG/FSC	Lack of coordination, unity among farmers and farm women			1. Formation and operation of SHG. 2. Development of leadership 3. Development of Farm club at village level 4. Formation of farm science clubs 5. Development and management for effective operation of SHG. SHG formation	1. Leadership Development		
26	Community participation and planning		Improper planning			1. Village community participation and planning	PRA study at village level for community participatory planning		

3.1. B. ON FARM TRIAL

i) OFT-1 : IDENTIFICATION OF SUITABLE PADDY VARIETY FOR LOWLAND

1) Title of on-farm trials : Identification of suitable variety for lowland paddy
2) Problem diagnosed : Higher susceptibility of existing ruling paddy variety to insect and diseases
3) Details of technologies selected for assessment/refinement : T_1 Farmers variety (CR-1009)
   T_2 RGL-2537
4) Source of technology : O.U.A.T, Bhubaneswar
5) Production system and thematic area : Cropping system
6) Performance of the Technology with performance indicators : Additional return, B:C ratio
7) Final recommendation for micro level situation : -
8) Constraints identified and feedback for research : -
9) Process of farmers participation and their reaction : -

3.1.C. Results

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 Upland	Higher susceptibility of existing ruling paddy variety to insect and diseases	Identification of suitable variety for lowland paddy	12	T_1 Farmers variety (CR-1009) T_2 RGL-2537	i. Days to 50% flowering ii. No. of effective ear heads/hill iii. No. of grain per panicle iv. Plant height & Yield v. Disease & pest incidence

**** 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
Yield 65q/ha 145 grains per panicle	Paddy variety RGL-2537 recorded the highest grain yield of 42.8 q/ha which is 31.3 % higher than the local check variety CR-1009	- More yield - Low pest and disease attack	No	No

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice**	42	10000	1.6
Technology assessed**	65	13500	1.9
Technology refined**			

****Field crops – kg/ha, * for horticultural crops -= kg or t / ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.***

***** Give details of the technology assessed or refined and farmer's practice***

ii) OFT-2 : IDENTIFICATION OF SUITABLE VARIETY OF UPLAND PADDY

1)	Title of on-farm trials	:	Identification of suitable variety for lowland paddy
2)	Problem diagnosed	:	Cultivation of low yielding traditional paddy varieties Distress sale of coarse grain paddy
3)	Details of technologies selected for assessment/refinement	:	T_1 Farmers variety T_2 Khandagiri
4)	Source of technology	:	O.U.A.T, Bhubaneswar
5)	Production system and thematic area	:	Cropping system
6)	Performance of the Technology with performance indicators	:	Additional return; B:C Ratio
7)	Final recommendation for micro level situation	:	-
8)	Constraints identified and feedback for research	:	-
9)	Process of farmers participation and their reaction	:	-

3.1.C. Results

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 Upland	Cultivation of low yielding traditional paddy varieties Distress sale of coarse grain paddy	Identification of suitable variety for lowland paddy	10	T_1 Farmers variety T_2 Khandagiri variety of paddy	i. Days to 50% flowering ii. No. of effective ear heads/hill iii. No. of grain per panicle iv. Plant height & Yield v. Disease & pest incidence

**** 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
Yield = 25 kg/ha 90 days to flowering 110 grains per panicle Low incidence of jassids and bph Low incidence of blast	-	1. Good yelder 2. uniform crop stand 3. Low incidence of jassids and bph 4. Low incidence of blast	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice**	21	2110	0.9
Technology assessed**	32	2716	1.2
Technology refined**		-	-

iii) OFT-3 : INTEGRATED NUTRIENT MANAGEMENT IN MAIZE

1)	Title of on-farm trials	:	Integrated nutrient management in Maize
2)	Problem diagnosed	:	In judicious application of fertilizers
3)	Details of technologies selected for assessment/refinement	:	T_1 - Farmer's practice (80:20:20) kg N: P_2O_5 : K_2O / ha T_2 - FYM (2.5 t/ ha)+ (80:40:40) kg N: P_2O_5 : K_2O / ha
4)	Source of technology	:	O.U.A.T, Bhubaneswar
5)	Production system and thematic area	:	Cropping system
6)	Performance of the Technology with performance indicators	:	Additional return; B:C Ratio
7)	Final recommendation for micro level situation	:	-
8)	Constraints identified and feedback for research	:	-
9)	Process of farmers participation and their reaction	:	-

3.1.C. Results

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Maize	Rainfed Upland	In judicious application of fertilizers	Integrated nutrient management in Maize	11	T_1 - Farmer's practice (80:20:20) kg N: P_2O_5 : K_2O / ha T_2 - FYM (2.5 t/ ha)+ (80:40:40) kg N: P_2O_5 : K_2O / ha	Yield & profit

**** 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
18.40 q/ha	With INM practices in maize the yield increase was 24.3% (18.40 q/ha) higher than with traditional method	- Yield increased with the application of the fertilozers and FYM - Good size of cobbs	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice**	14.80 q/ha	7400	0.95
Technology assessed**	18.40 q/ha	9200	1.2
Technology refined**	-	-	-

iv) OFT-4 : IDENTIFICATION OF PROFITABLE INTERCROPS IN MANGO ORCHARD

1) Title of on-farm trials : identification of profitable intercrops in mango orchard
2) Problem diagnosed : In judicious application of fertilizers
3) Details of technologies selected for assessment/refinement : T_1 - Farmer's practice (T_2 - Recommended practice(turmeric)
4) Source of technology : O.U.A.T, Bhubaneswar
5) Production system and thematic area : Cropping system
6) Performance of the Technology with performance indicators : Additional return; B:C Ratio
7) Final recommendation for micro level situation : -
8) Constraints identified and feedback for research : -
9) Process of farmers participation and their reaction : -

3.1.C. Results

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Fruit Orchard	Rainfed Upland	Cultivation of low yielding pulses and low yielding minor millets in interspaces of orchards	Identification of profitable intercrops in mango orchard	4	T_1 - Farmers practice T_2 - Recommended practice (turmeric)	Yield & Profit

**** 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
220 days duration Yield = 155 q/ha	-	➢ Better colour and yield of turmeric ➢ Big and thick fingers	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice**	80 q/ha	40,000 (22,000)	1.2
Technology assessed**	120 q/ha	63,000 (30,000)	1.4
Technology refined**			

v) OFT-5 : ASSESSMENT OF NUTRITIONAL REQUIREMENT OF SWEET ORANGE

1)	Title of on-farm trials	:	Assessment of nutritional requirement of sweet orange
2)	Problem diagnosed	:	In judicious application of fertilizers
3)	Details of technologies selected for assessment/refinement	:	T1 - Farmers practice (No manuring and fertilization T2 - Recommended practice(200 : 75 : 150 g/plant of 5 year old)
4)	Source of technology	:	O.U.A.T, Bhubaneswar
5)	Production system and thematic area	:	Cropping system
6)	Performance of the Technology with performance indicators	:	Additional return; B:C Ratio
7)	Final recommendation for micro level situation	:	-
8)	Constraints identified and feedback for research	:	-
9)	Process of farmers participation and their reaction	:	-

3.1.C. Results

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Fruit Orchard	Rainfed ,terrace	1) Low yield of sweet orange due to inadequate application of manures and fertilizers	Assessment of nutritional requirement of Sweet orange	4 (2)	T_1 : Farmer Practice (No manuring and fertilization) T_2 : Recommended practice ($N:P_2O_5:K2O::200 : 75 : 150$ g + Rallimeal 500 g / plant) for a 5 year old plant	Additional return; B:C Ratio Technical Observation : Number of fruits / plant, fruit weight, yield / ha Economic indicators : B:C Ratio

**** 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
50 fruits / plant 165 gm fruit wt. 220 q/ha	-	Plant responded better to combined doses of oorganic and in organic fertilizer	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice**	150 q/ha	18000	0.4

		(13000)	
Technology assessed**	220 q/ha	26,400 (18000)	0.5
Technology refined**	-		-

vi) OFT-6 : ASSESSMENT OF NUTRIENT MANAGEMENT IN CAULIFLOWER

1)	Title of on-farm trials	:	Assessment of nutrient management in cauliflower
2)	Problem diagnosed	:	In judicious application of fertilizers
3)	Details of technologies selected for assessment/refinement	:	T_1 - Farmer's practice (80:20:20) kg N: P_2O_5 : K_2O / ha T_2 - FYM (2.5 t/ ha)+ (80:40:40) kg N: P_2O_5 : K_2O / ha
4)	Source of technology	:	O.U.A.T, Bhubaneswar
5)	Production system and thematic area	:	Cropping system
6)	Performance of the Technology with performance indicators	:	Additional return; B:C Ratio
7)	Final recommendation for micro level situation	:	-
8)	Constraints identified and feedback for research	:	-
9)	Process of farmers participation and their reaction	:	-

3.1.C. Results

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Cauliflower	Rainfed INM	Low yield of early cauliflower due to less and late application of fertilizers	Assessment of nutrient management in cauliflower	10 (2)	T1 : Farmer practice (FYM + Nitrogen) T2 : Use of balanced fertilizer 125: 50 : 75 kg of N : P2O5 : K2O + Boron (foliar spray of Boron @ 2 g / plant)	Technical Observation : Days req for curd maturity, Curd Yield/ha Economic indicators : B:C Ratio Farmers Reaction : Availability of inputs, marketability Feedback : Popularisation of the technology

**** 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

83.3 days to curd maturity 97 q/ha curd	-	➢ Low disease and pest attack ➢ Big curd size and white colour	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice**	70	30,000 (15,000)	0.7
Technology assessed**	90	45,000 (25,000)	0.85
Technology refined**			

vii) OFT-7 : ASSESSMENT OF PERFORMANCE OF IMPROVED CULTIVAR OF TOMATO

1)	Title of on-farm trials	:	Assessment of performance of improved cultivar of tomato
2)	Problem diagnosed	:	In judicious application of fertilizers
3)	Details of technologies selected for assessment/refinement	:	T_1 - Farmer's practice (80:20:20) kg N: P_2O_5 : K_2O / ha T_2 - FYM (2.5 t/ ha)+ (80:40:40) kg N: P_2O_5 : K_2O / ha
4)	Source of technology	:	O.U.A.T, Bhubaneswar
5)	Production system and thematic area	:	Cropping system
6)	Performance of the Technology with performance indicators	:	Additional return; B:C Ratio
7)	Final recommendation for micro level situation	:	-
8)	Constraints identified and feedback for research	:	-
9)	Process of farmers participation and their reaction	:	-

3.1.C. Results

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7

Tomato cv. BT-10	Irrigated ; Cropping System	1) Low yield of tomato duct to cultivation of local variety	Assessment of performance of improved cultivar of tomato	5 (2)	T1 : Farmer variety (Local) T2 : Improved Variety Variety Utkal Kumari (BT-10) 90-95 SDays released in 1997 high yielding 250-300q/ha.	Technical Observation : Fruit yield/Plant Economic indicators : B:C Ratio Farmers Reaction : Availability of seed, yield stability Feedback: Popularization of the variety.

**** 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
170 q/ha	-	High yield and low disease and pest attack Particularly to tomato wilt	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice**	70	25,000/-	2.30
Technology assessed**	170	35,000/-	2.57
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 2006-07 and recommended for large scale adoption in the district

S. 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.	Cropping system	Paddy variety Khandagiri cultivated organically with the recommended use of Dhanicha 20t/ha + PSB 20g/kg of seed + Vermicompost + Neem oil/3 ml of water at 20, 40 & 60 DAT	Farmers training Field Days VCD Shows	4	14	5.5

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

b. Details of FLDs implemented during 2006-07 (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	
	CEREALS									
1	Paddy	Cropping system	Improved variety of superfine rice	Kharif 2007	4	1.2	3	-	3	Limited availability of variety
2	Paddy	Cropping system	Improved variety substitute to MTU 7029	Kharif 2007	5	5	5	5	10	-
3	Paddy	Cropping system	Organic rice	Kharif 2007	4	4	11	0	11	-
4	Ragi	Cropping system	Improved of ragi	Kharif 2007	5	5	13	0	13	-
5	Maize	Cropping system	Improved cultivation practices of maize Hybrid	Kharif 2007	5	5	12	0	12	
6	Dhanicha	INM	Dhanicha	Kharif 2007	4	4	11	0	11	-
	FRUITS									
1	Mango	Cropping system	Improved variety	Kharif 2007	2	2	7	0	7	-
	VEGETABLES									
1	Cabbage	Plant protection	Bio-intensive pest management	Kharif 2007	1.0	1.0	10	0	10	-
2	Nutritional Gardening (Tomato, Cauliflower, cabbage, Okra, Papaya, Brinjal)	Balancing of nutrient and feed	Nutritional gardening for balanced nutrient and diet	Kharif 2007	4.0	4.0	28	0	28	-
	OILSEEDS									
1	Sesames	Cropping system	Package demonstration	Rabi 2007-08	5	5	0	6	6	-
	PULSES									
1	Arhar	Cropping system	Package demonstration	Kharif 2007	5	5	21	0	21	-
2	Black	Cropping	Package	Rabi	5	5	22	0	22	

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	
	gram	system	demonstration	2007-08						
	COMMERCIAL									
1	Paddy Straw Mushroom	Human nutrition	Cultivation practices,	Kharif 2007	100 Nos	100 Nos	10	0	10	
2	Oyster mushroom	Human nutrition	Cultivation practices,	Rabi 2007-08	100 Nos	100 Nos	10	0	10	
3	Vermi composting	Cropping system	Organic cultivation	Rabi 2007-08	10	10	10	0	10	

Details of farming situation

Sl No	Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
					N	P	K					
	CEREALS											
1	Paddy JGL 385	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	05.07.07 To 15.07.07	06.12.07 To 18.12.07	-	-
2	Paddy Pratiksha ya	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	04.07.07 to 20.07.07	07.11.07 To 26.11.07	-	-
3	Paddy Khandagiri	Kharif 2007	Rainfed	Brown forest	L	M	H	Paddy	12.07.07 to 18.07.07	15.10.07 To 21.10.07	-	-
4	Ragi	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	04.07.07 to 08.07.07	11.10.07 To 18.10.07	-	-
5	Maize	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	01.07.07 to 11.07.07	12.12.07 To 25.12.07		
6	Dhanicha	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	02.06.07 to 09.06.07	24.06.07 To 01.07.07		
	FRUIT CROPS											
1	Mango	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	20.07.07 To 24.07.07	2nd year	-	-
	VEGETABLES											
1.	Cabbage	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	20.08.07 to 05.09.07	25.11.07 to 15.12.07	-	-
2	Nutritional Gardening (Tomato, Cauliflower, cabbage, Okra,	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	15.07.07 to 25.07.07	30.09.07 to 15.10.07	-	-

Sl No	Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
					N	P	K					
	Papaya, Brinjal)											
	OILSEEDS											
1	Sesames	Rabi 2007-08	Irrigated	Brown forest	L	M	H	Paddy	29.01.08 to 02.02.08	12.04.08 To 22.04.08	-	-
	PULSES											
1	Arhar	Kharif 2007	Rainfed	Brown forest	L	M	H	Fallow	04.07.07 to 14.07.07	15.01.08 To 26.01.08	-	-
2	Blackgram	Rabi 2007-08	Irrigated	Brown forest	L	M	H	Paddy	13.12.07 to 20.12.07	04.03.08 to 10.03.08	-	-
	COMMERCIAL											
1	Paddy straw mushroom	Kharif 2007	-	-	-	-	-	-	30.08.07 to 04.09.07	17.09.07 To 25.09.07	-	-
2	Oyster mushroom	Rabi 2007-08	-	-	-	-	-	-	01.01.08 To 15.01.08	18.01.08 to 24.01.08	-	-
3	Vermicompostin g	Rabi 2007-08	-	-	-	-	-	-	01.01.08 To 10.01.08	continuing		

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
	CEREALS											
1	Paddy	Improved variety of superfine rice	RGL 2537	3	1.2	34.0	24.0	29.0	20.0	45.0		
2	Paddy	Improved variety substitute to MTU 7029	Pratikshya	10	5.0	48.0	38.0	42.0	34.0	24.0		
3	Paddy	Cultivation using organic inputs	Khandagiri	11	4	24.0	16.0	20.0	12.0	66.7		
4	Ragi	Improved ragi variety	Bhairabi	13	5	12.0	8.0	10.0	8.0	25.0		

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
5	Maize	Improved cultivation practices	Nirmal	12	5	24.0	20.0	22.0	16.0	37.5		
6	Dhaincha	INM	PD-1	22	4	225	175	200	150	33.3		
	FRUITS CROPS											
1	Mango	Improved variety	Amrapalli	13	2	-	-	-	-	-	-	-
	VEGETABLES											
1	Cabbage	Bio intensive pest management in cabbage	Benson	10	1.0	130	80	105	85	23.52	-	-
2	Nutritional Gardening (Tomato, Cauliflower, cabbage, Okra, Papaya, Brinjal)	Nutritional gardening to meet the balanced nutrient need of the farmer family	BT-10 Deepa Benson BO-2 Honey Dew BB-26	23	4.0	210 90 125 85 250 175	110 65 75 60 180 140	170 75 100 70 200 165	70 48 80 50 150 105	58.8 56.3 25.0 40.0 33.3 57.1		
	OILSEEDS											
1	Sesamum	Package demo	Nirmala	6	5	-	-	-	-	-	-	-
	PULSES											
1	Arhar	Full package	UAS-1	12	5	14.8	10.2	12.4	8.2	51.2	-	-
2	Black gram	Full package	TU 94-2	22	5	8.0	6.2	7.2	4.6	56.52	-	-
	COMMERCIAL											
1	Paddy straw mushroom	Improved variety	*V. volvaceae*	10	100 Nos.	1.2	0.6	0.9	0.5	80		
2	Oyster mushroom	Improved variety	*p. sajorcaju florida*	10	100 Nos.	3.0	2.2	2.6	1.8	44.4		
3	Vermicomposting	Organic farming	*Eudrillus euginae*	10	10 Nos.	2.2	1.8	2q/ unit of size 4.2 m^3	-	-		

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

Economic Impact (continuation of previous table)

Sl No	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
	CEREALS						
1	14,000	11,200	29,000	20,000	15,000	8,800	2.00 D 1.80 L
2	13,500	12,000	21,000	17,000	75,000	5,000	1.55 D 1.41 L
3	9,000	7,800	12,000	7,200	3,000	600	1.22 D 0.92 L
4	6,000	5,500	10,000	8,000	4,000	2,500	1.66 D 1.45 L
5	8,000	6,500	11,000	8,000	3,000	1,500	1.37 D 1.23 L
6	-	-	-	-	-	-	-
	VEGETABLES						
1.							
2							
	FRUIT CROPS						
1	-	-	-	-	-	-	-
	OILSEEDS						
1	4100	3000	11100	6300	7000	3300	2.70 (D) 2.10 (L)
	PULSES						
1.	6100	5400	18600	12300	12500	6900	3.04 (D) 2.27 (L)
2.	5200	4900	18360	12150	13160	7250	3.53 (D) 2.47 (L)
	COMMERCIAL						
1	28	18	45	25	17	7	1.60 D 1.38 L
2	26	20	52	36	26	16	2.1 D 1.8 L
3	-	-	-	-	-	-	-

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

Sl No	Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
	CEREALS						
1	Paddy	Kharif 2007	Variety : RGL 2537	Rainfed			
2	Paddy	Kharif 2007	Variety : ORS 201-5	Rainfed			

Sl No	Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
3	Paddy	Kharif 2007	Seed/ Variety : Khandagiri Biofertilizers	Rainfed			
4	Ragi	Kharif 2007	Seed/ Variety : Bhairabi	Rainfed			
5	Maize	Kharif 2007	Fertilizer management	Rainfed			
6	Dhanicha	Kharif 2007	Seed/variety : PD-1	Rainfed			
	FRUIT CROPS						
9	Mango	Kharif 2006	Variety : Amrapalli	Rainfed	-	-	-
	VEGETABLES						
1	Cabbage	Kharif 2007	Plant protection : Use of Pheromone traps for monitoring pests Neem based pesticides,	Rainfed	-	-	-
2	Nutritional Gardening (Tomato, Cauliflower, cabbage, Okra, Papaya, Brinjal)	Kharif 2007	Seeds/Variety : BT-10 Deepa Benson BO-2 Honey Dew BB-26)	Rainfed	-	-	-
	OILSEEDS						
1.	Niger	Kharif 2006	Seed/Variety : Deomali Fertilizer management Plant protection	Rainfed	7.4	4.2	76.1
2	Sesamum	Rabi 2006-07	Seed/Variety : Nirmala Fertilizer management Plant protection	Irrigated	8.2	5.6	46.4
	PULSES						
1	Arhar	Kharif 2006	Seed/Variety : UAS-1 Fertilizer management Plant protection	Rainfed	12.4	8.2	51.2
2	Black gram	Rabi 2006-07	Seed/Variety : PU-30 Fertilizer management Plant protection	Irrigated	6.8	4.5	51.2
3	Arhar	Khaif 2007	Seed/Variety : UAS-1 Fertilizer management Plant protection	Rainfed	-	-	-
	AGRO FORESTRY						

Sl No	Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
11	Subabul	Kharif 2006	Variety : Selection	Rainfed	-	-	-
12	Acacia	Kharif 2006	Variety : Selection	Rainfed	-	-	-
	COMMERCIAL						
1	Paddy straw mushroom	Kharif 2007	Seeds/variety : V. volvaceae	-	-	-	-

Technical Feedback on the demonstrated technologies

S. No	component	Feed Back
9	Variety : JGL-348	Better variety, long slender grain
10	Variety : ORS 201-5	Better variety, high yield
12	Seed/ Variety : Khandagiri Biofertilizers	Better technology with no use of fertilizers.
13	Seed/ Variety : Bhairabi	Better variety, good yield resistant to diseases like rust, and blast of ragi
	FRUIT CROPS	
9	Variety : Amrapalli	Regular bearing, suitable for high density planting
10	Variety : L-49	Attractive colour, good taste
3	Variety : Amrapalli	Regular bearing, suitable for high density planting
	VEGETABLES	
1	Plant protection : Use of Pheromone traps for monitoring pests Neem based pesticides,	Better technology, suitable for areas with pest resurgence problem
2	Seeds/Variety : BT-10 Deepa Benson BO-2 Honey Dew BB-26)	Additional Income, provide wholesome nutrition to the family easily adoptable.
	OILSEEDS	
1.	Seed/Variety : Deomali Fertilizer management Plant protection	The oil percentage is higher compared to local variety, The variety responded well to fertilizer application and irrigation
2	Seed/Variety : Nirmala Fertilizer management Plant protection	The oil percentage is higher as compared to local variety; Variety is tolerant to fruit borer/diseases; The variety responded well to fertilizer application and irrigation
	PULSES	
1	Seed/Variety : UAS-1 Fertilizer management Plant protection	The variety had bigger pods than local; Variety is tolerant to fruit borer/diseases; The variety responded well to fertilizer application and irrigation

2	Seed/Variety : PU-30 Fertilizer management Plant protection	Yield of the variety was higher due to better plant height and more number of pods per plant; Seed size of the variety was bigger than the local variety
3	Seed/Variety : UAS-1 Fertilizer management Plant protection	The variety had bigger pods than local; Variety is tolerant to fruit borer/diseases; The variety responded well to fertilizer application and irrigation
	AGRO FORESTRY	
11	Variety : Selection	Subable can be use for bond planting, additional income, fast growing
12	Variety : Selection	Mangium can be use for bond planting, additional income, fast growing
	COMMERCIAL	
1	Seeds/variety : V. volvaceae	Additional income, suitable for small household and meet nutritional needs of farmers family.

Farmers' reactions on specific technologies

S. No		Feed Back
	CEREALS	
9	Variety : JGL-348	Long grain, less pest and disease attack
10	Variety : ORS 201-5	Non-lodging, less pest and disease attack
12	Seed/ Variety : Khandagiri Biofertilizers	Less use of fertilizer, good yield and better soil health
13	Seed/ Variety : Bhairabi	Better crop growth, bigger grain size and sweet
	FRUIT CROPS	
9	Variety : Amrapalli	
10	Variety : L-49	
3	Variety : Amrapalli	
	VEGETABLES	
1	Plant protection : Use of Pheromone traps for monitoring pests Neem based pesticides,	
2	Seeds/Variety : BT-10 Deepa Benson BO-2 Honey Dew BB-26)	
	OILSEEDS	
1.	Seed/Variety : Deomali Fertilizer management Plant protection	Crop stand of the variety is good; Uniform crop growth; Flower head is bigger in size than the local ones
2	Seed/Variety : Nirmala Fertilizer management Plant protection	Variety matures earlier than local variety; the seed colour of the variety has low acceptance.

	PULSES	
1	Seed/Variety : UAS-1 Fertilizer management Plant protection	UAS-1 variety has less pest and disease attack than the local variety.; Crop stand of the variety is uniform as compared to the local one.
2	Seed/Variety : TU 94-2 Fertilizer management Plant protection	TU 94-2 variety had greater yield than the local variety; Seed filling of the variety was found better; low incidence of aphids and YMV.
3	Seed/Variety : Nirmala Fertilizer management Plant protection	
	AGRO FORESTRY	
1	Variety : Selection	
2	Variety : Selection	
	COMMERCIAL	
1	Seeds/variety : V. volvaceae	

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	-	-	-	-
2	Farmers Training	1 + 1 + 1 + 1	-	30 + 22 + 30 + 30	
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

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

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		

*** Milk production, meat production, egg production, reduction in disease incidence etc.**

(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								

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

A) ON Campus

Thematic Area	No. of Courses	Duration (days)	No. of Participants						Grand Total
			Others			SC/ST			
			Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	1	3	0	0	0	20	5	25	25
Resource Conservation Technologies									
Cropping Systems									
Crop Diversification									
Integrated Farming									
Water management									
Seed production									
Nursery management	1	2	0	0	0	20	5	25	25
Integrated Crop Management	3	7	0	0	0	60	15	75	75
Fodder production									
Production of organic inputs									
II Horticulture									
a) Vegetable Crops									
Production of low volume and high value crops									
Off-season vegetables									
Nursery raising									
Exotic vegetables like Broccoli									
Export potential vegetables									
Grading and standardization									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit	3	8	0	0	0	61	14	75	75
Management of young plants/orchards	1	3	0	0	0	20	5	25	25
Rejuvenation of old orchards									
Export potential fruits									
Micro irrigation systems of orchards									
Plant propagation techniques									
c) Ornamental Plants									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Nursery Management									
Management of potted plants									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
Production and Management technology									
Processing and value addition									
e) Tuber crops									
Production and Management technology									
Processing and value addition									
f) Spices									
Production and Management technology									
Processing and value addition									
g) Medicinal and Aromatic Plants									
Nursery management									
Production and management technology									
Post harvest technology and value addition									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management	1	3	0	0	0	18	07	25	25
Production and use of organic inputs									
Management of Problematic soils									
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Piggery Management									
Rabbit Management									
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
development for high nutrient efficiency diet									
Minimization of nutrient loss in processing	1	2	0	0	0	0	25	25	25
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition	3	11	0	0	0	8	67	75	75
Income generation activities for empowerment of rural Women	1	2	0	0	0	20	5	25	25
Location specific drudgery reduction technologies									
Rural Crafts									
Women and child care									
VI Agril. Engineering									
Installation and maintenance of micro irrigation systems									
Use of Plastics in farming practices									
Production of small tools and implements									
Repair and maintenance of farm machinery and implements									
Small scale processing and value addition									
Post Harvest Technology									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
Integrated fish farming									
Carp breeding and hatchery management									
Carp fry and fingerling rearing									
Composite fish culture									
Hatchery management 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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Seed Production									
Planting material production									
Bio-agents production									
Bio-pesticides production									
Bio-fertilizer production									
Vermi-compost production									
Organic manures production									
Production of fry and fingerlings									
Production of Bee-colonies and wax sheets									
Small tools and implements									
Production of livestock feed and fodder									
Production of Fish feed									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics									
Formation and Management of SHGs	1	1	0	0	0	18	2	20	20
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	1	2	0	0	0	20	5	25	25
Bee-keeping									
Integrated farming									
Seed production	1	4	0	0	0	15	10	25	25
Production of organic inputs									
Integrated Farming									
Planting material production									
Vermi-culture									
Sericulture									
Protected cultivation of vegetable crops									
Commercial fruit production									
Repair and maintenance of farm machinery and implements									
Nursery Management of Horticulture crops	1	4	0	0	0	24	1	25	25
Training and pruning of orchards									
Value addition									
Production of quality animal products									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Dairying									
Sheep and goat rearing									
Quail farming									
Piggery									
Rabbit farming									
Poultry production									
Ornamental fisheries									
Para vets									
Para extension workers	2	5	0	0	0	45	5	50	50
Composite fish culture									
Freshwater prawn culture									
Shrimp farming									
Pearl culture									
Cold water fisheries									
Fish harvest and processing technology									
Fry and fingerling rearing									
Small scale processing									
Post Harvest Technology									
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 technology									
Formation and Management of SHGs									
Group Dynamics and farmers organization									
Information networking among farmers									
Capacity building for ICT application	1	2	25	0	25	0	0	0	25
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 through SHGs									
In-situ soil and water conservation	1	2	13	2	15	9	1	25	25
Nutritional gardening	1	2	21	4	25	0	0	0	25
TOTAL									

B) 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									
Resource Conservation Technologies									
Cropping Systems	1	3	0	0	0	19	6	25	25
Crop Diversification	2	4	0	0	0	38	12	50	50
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management	1	2	0	0	0	25	0	25	25
Fodder production									
Production of organic inputs									
II Horticulture									
a) Vegetable Crops									
Production of low volume and high value crops	4	12	0	0	0	79	21	100	100
Off-season vegetables									
Nursery raising									
Exotic vegetables like Broccoli									
Export potential vegetables									
Grading and standardization									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Training and Pruning	1	3	0	0	0	6	19	25	25
Layout and Management of Orchards									
Cultivation of Fruit	1	3	0	0	0	25	0	25	25
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	1	3	0	0	0	14	11	25	25
Propagation techniques of Ornamental Plants									
d) Plantation crops									
Production and Management technology									
Processing and value addition									
e) Tuber crops									
Production and Management technology									
Processing and value addition									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
f) Spices									
Production and Management technology									
Processing and value addition									
g) Medicinal and Aromatic Plants									
Nursery management									
Production and management technology									
Post harvest technology and value addition									
III Soil Health and Fertility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
Production and use of organic inputs									
Management of Problematic soils	1	3	0	0	0	25	0	25	25
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Piggery Management									
Rabbit Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	2	0	0	0	22	3	25	25
Design and development of low/minimum cost diet	1	2	0	0	0	1	24	25	25
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition	1	3	0	0	0	10	15	25	25
Income generation activities for empowerment of rural Women	3	7	0	0	0	20	55	75	75
Location specific drudgery reduction technologies									
Rural Crafts	1	3	0	0	0	0	25	25	25
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									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
Integrated fish farming									
Carp breeding and hatchery management									
Carp fry and fingerling rearing									
Composite fish culture									
Hatchery management 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									
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Group Dynamics									
Leadership development									
Group dynamics	2	4	0	0	0	40	40	50	50
Formation and Management of SHGs	2	3	0	0	0	37	8	45	45
Mobilization of social capital	2	4	0	0	0	38	12	50	50
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									
Bee-keeping									
Integrated farming	1	1	0	0	0	25	0	25	25
Seed production									
Production of organic inputs									
Integrated Farming	2	5	0	0	0	43	7	50	50
Planting material production									
Vermi-culture									
Sericulture									
Protected cultivation of vegetable crops									
Commercial fruit production									
Repair and maintenance of farm machinery and implements									
Nursery Management of Horticulture crops	2	7	0	0	0	38	12	50	50
Training and pruning of orchards									
Value addition									
Production of quality animal products	1	2	0	0	0	14	11	25	25
Dairying									
Sheep and goat rearing									
Quail farming									
Piggery									
Rabbit farming									
Poultry production									
Ornamental fisheries									
Para vets									
Para extension workers									
Composite fish culture									
Freshwater prawn culture									
Shrimp farming									
Pearl culture									
Cold water fisheries									
Fish harvest and processing technology									
Fry and fingerling rearing									
Small scale processing									
Post Harvest Technology									
Tailoring and Stitching	1	5	0	0	0	0	25	25	25

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Rural Crafts									
TOTAL									
(C) Extension Personnel									
Productivity enhancement in field crops	1	3	0	0	0	21	4	25	25
Integrated Pest Management									
Integrated Nutrient management									
Rejuvenation of old orchards									
Protected cultivation 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 through SHGs									
Any other (Pl. Specify)									
TOTAL									

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	1	3	0	0	0	20	5	25	25
Resource Conservation Technologies									
Cropping Systems	1	3	0	0	0	19	6	25	25
Crop Diversification	2	4	0	0	0	38	12	50	50
Integrated Farming	1	2	0	0	0	20	5	25	25
Water management									
Seed production									
Nursery management	1	2	0	0	0	20	5	25	25
Integrated Crop Management	4	9	0	0	0	85	15	100	100
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	0	0	0	25	0	25	25
II Horticulture									
a) Vegetable Crops									
Production of low volume and high value crops	4	12	0	0	0	79	21	100	100
Off-season vegetables									
Nursery raising									
Exotic vegetables like Broccoli									
Export potential vegetables									
Grading and standardization									
Protective cultivation (Green Houses, Shade Net etc.)									
b) Fruits									
Training and Pruning	1	3	0	0	0	6	19	25	25
Layout and Management of Orchards									
Cultivation of Fruit	4	7	0	0	0	86	14	100	100
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	1	3	0	0	0	14	11	25	25
Propagation techniques of Ornamental Plants									
d) Plantation crops									
Production and Management technology									
Processing and value addition									
e) Tuber crops									
Production and Management technology									
Processing and value addition									
f) Spices									
Production and Management technology									
Processing and value addition									
g) Medicinal and Aromatic Plants									
Nursery management									
Production and management technology									
Post harvest technology and value addition									
III Soil Health and Fertility Management									
Soil fertility management									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Soil and Water Conservation									
Integrated Nutrient Management	1	3	0	0	0	18	7	25	25
Production and use of organic inputs									
Management of Problematic soils	1	3	0	0	0	25	0	25	25
Micro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soil and Water Testing									
IV Livestock Production and Management									
Dairy Management									
Poultry Management									
Piggery Management									
Rabbit Management									
Disease Management									
Feed management									
Production of quality animal products									
V Home Science/Women empowerment									
Household food security by kitchen gardening and nutrition gardening	1	2	0	0	0	22	3	25	25
Design and development of low/minimum cost diet	1	2	0	0	0	1	24	25	25
Designing and development for high nutrient efficiency diet									
Minimization of nutrient loss in processing	1	2	0	0	0	0	25	25	25
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition	4	14	0	0	0	18	82	100	100
Income generation activities for empowerment of rural Women	4	9	0	0	0	40	60	100	100
Location specific drudgery reduction technologies									
Rural Crafts	1	3	0	0	0	0	25	25	25
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									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
and value addition									
Post Harvest Technology									
VII Plant Protection									
Integrated Pest Management									
Integrated Disease Management									
Bio-control of pests and diseases									
Production of bio control agents and bio pesticides									
VIII Fisheries									
Integrated fish farming									
Carp breeding and hatchery management									
Carp fry and fingerling rearing									
Composite fish culture									
Hatchery management 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									
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	2	4	0	0	0	40	40	50	50
Formation and Management of SHGs	3	4	0	0	0	60	10	70	70
Mobilization of social capital	2	4	0	0	0	38	12	50	50

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Entrepreneurial development of farmers/youths									
WTO and IPR issues									
XI Agro-forestry									
Production technologies									
Nursery management									
Integrated Farming Systems									
XII Others (Pl. Specify)									
TOTAL	42	100	0	0	0	674	401	1045	1045
(B) RURAL YOUTH									
Mushroom Production									
Bee-keeping									
Integrated farming	1	1	0	0	0	25	0	25	25
Seed production	1	4	0	0	0	15	10	25	25
Production of organic inputs									
Integrated Farming	2	7	0	0	0	43	7	50	50
Planting material production									
Vermi-culture									
Sericulture									
Protected cultivation of vegetable crops									
Commercial fruit production									
Repair and maintenance of farm machinery and implements									
Nursery Management of Horticulture crops	3	11	0	0	0	62	13	75	75
Training and pruning of orchards									
Value addition									
Production of quality animal products	1	2	0	0	0	14	11	25	25
Dairying									
Sheep and goat rearing									
Quail farming									
Piggery									
Rabbit farming									
Poultry production									
Ornamental fisheries									
Para vets									
Para extension workers	2	5	0	0	0	45	5	50	50
Composite fish culture									
Freshwater prawn culture									
Shrimp farming									
Pearl culture									
Cold water fisheries									
Fish harvest and processing technology									
Fry and fingerling rearing									
Small scale processing									
Post Harvest Technology									
Tailoring and Stitching	1	5	0	0	0	0	25	25	25
Rural Crafts									
TOTAL	11	35	0	0	0	204	71	275	275
(C) Extension Personnel									

Thematic Area	No. of Courses	Duration (days)	No. of Participants						
			Others			SC/ST			Grand Total
			Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops	1	3	0	0	0	21	4	25	25
Integrated Pest Management									
Integrated Nutrient management									
Rejuvenation of old orchards									
Protected cultivation technology									
Formation and Management of SHGs									
Group Dynamics and farmers organization									
Information networking among farmers									
Capacity building for ICT application	1	2	25	0	25	0	0	0	25
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 through SHGs									
Use of growth regulators	1	2	13	2	15	9	1	25	25
Nutritional gardening	1	2	21	4	25	0	0	0	25
TOTAL	4	9	59	6	65	30	5	50	100
GRAND TOTAL	57	144	59	6	65	908	477	1370	1420

Note: Please furnish the details of training programmes as Annexure in the proforma given below

Sl No	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
1.	25.04.07 26.04.07	RY	Formation of Farm Science Clubs	2	OC	18	2	20	18	2	20
2.	14.05.07 15.05.07	FW	Techniques of seed and seedling treatment in crops	2	OC	19	6	25	19	6	25
3.	14.05.07 15.05.07	FW	Development of Azolla and BGA nursery and its application	2	OF	20	5	25	20	5	25
4.	22.05.07 23.05.07	IS	Leadership development	2	OC	25	0	25	0	0	0
5.	02.06.07 08.06.07	Sponsored	Training on watershed management	7	OF	25	0	25	25	0	25
6.	07.06.07 08.06.07	RY	Study about therapeutic nutrition	2	OF	22	3	25	22	3	25
7.	11.06.07 12.06.07	FW	Crop substitution in rainfed hilly slopes	2	OF	23	2	25	23	2	25
8.	13.06.07 14.06.07	FW	Fabric printing	2	OF	0	25	25	0	25	25
9.	13.06.07 15.06.07	FW	Improved cultivation practices of litchi and papaya	3	OC	21	4	25	21	4	25
10.	14.06.07 14.06.07	FW	Development & management for effective operation of SHGs	1	OC	9	16	25	9	16	25
11.	18.06.07 19.06.07	IS	PRA study at village level for community participatory planning	2	OC	25	0	25	0	0	0
12.	20.06.07 21.06.07	IS	INM in vegetables	2	OC	24	1	25	24	1	25
13.	19.06.07 20.06.07	FW	Compost making	2	OC	20	5	25	20	5	25
14.	22.06.07	FW	Field day	1	OC	20	5	25	20	5	25

Sl No	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
15.	27.06.07 27.06.07	RY	Soil sampling and analysis of primary nutrients	1	OC	25	0	25	25	0	25
16.	28.06.07 29.06.07	FW	Nutrient management in maize	2	OC	20	5	25	20	5	25
17.	04.07.07 05.07.07	FW	INM in rice	2	OF	25	0	25	25	0	25
18.	06.07.07 08.07.07	RY	Raising of fruit nursery (Mango & Guava) Phase I	3	OF	20	5	25	20	5	25
19.	05.07.07 07.07.07	FW	Weed management in upland crops	3	OC	20	5	25	20	5	25
20.	09.07.07 11.07.07	FW	Preparation and value addition of guava – Jelly making	2	OF	10	15	25	10	15	25
21.	09.07.07 11.07.07	FW	Improved cultivation of mango and guava	3	OF	25	0	25	25	0	25
22.	18.07.07 19.07.07	IS	Nutritional gardening	2	OC	21	4	25	0	0	0
23.	20.07.07 21.07.07	FW	Village community participation and planning	2	OF	25	0	25	25	0	25
24.	27.07.07 28.07.07	RY	Raising techniques of Mushroom	2	OC	20	5	25	20	5	25
25.	02.08.07 04.08.07	FW	Growing of intercrops in fruit orchards	3	OF	20	5	25	20	5	25
26.	07.08.07 08.08.07	FW	SHG formation	2	OF	19	6	25	19	6	25
27.	08.08.07 10.08.07	FW	Stitching of dress materials	3	OF	0	25	25	0	25	25
28.	20.08.07 22.08.07	FW	Use of biopesticides in solanaceous and cole crops	3	OF	25	0	25	25	0	25
29.	04.09.07 06.09.07	FW	Improved cultivation practices of cole crops	3	OF	25	0	25	25	0	25

Sl No	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
30.	17.09.07 21.09.07	FW	Preparation and value addition – Lemon & Pickle	5	OC	8	17	25	8	17	25
31.	10.09.07 12.09.07	RY	Raising of vegetable nursery	3	OC	17	8	25	17	8	25
32.	20.09.07 21.09.07	IS	Use of growth regulators in mango and citrus production system	2	OC	22	3	25	0	0	0
33.	04.10.07 06.10.07	FW	Rural crafts	3	OF	0	25	25	0	25	25
34.	15.10.07 17.10.07	FW	Improved packages and practices of marigold and chrysanthemum	3	OF	14	11	25	14	11	25
35.	05.10.07 06.10.07	RY	Agriculture based self employment opportunities	2	OC	20	5	25	20	5	25
36.	18.10.07 19.10.07	FW	Crop diversification in upland	2	OF	15	10	25	15	10	25
37.	22.10.07 23.10.07	FW	Food and financial security through agroforestry	2	OF	20	5	25	20	5	25
38.	07.11.07 08.11.07	FW	Minimisation of nutrient loss in processing of food	2	OC	0	25	25	0	25	25
39.	20.11.07 21.11.07	FW	Weaning food preparation for children	2	OF	1	24	25	1	24	25
40.	27.11.07 29.11.07	FW	Soil test based nutrient management of rice	3	OC	25	0	25	25	0	25
41.	20.11.07 23.11.07	RY	Raising of fruit nursery (Citrus, Papaya & Litchi) Phase II	4	OC	24	01	25	24	01	25
42.	03.12.07 05.12.07	FW	Improved cultivation practices of Chilli	3	OF	18	7	25	18	07	25
43.	04.12.07 05.12.07	RY	Raising technique of oyster mushroom	2	OC	20	5	25	20	5	25
44.	10.12.07 11.12.07	FW	Village community participation, planning & empowerment	2	OF	20	5	25	20	5	25

Sl No	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
45.	17.12.07 18.12.07	FW	Ratoon management in sugarcane	2	OC	15	10	25	15	10	25
46.	18.12.07 20.12.07	FW	Value addition to vegetable – Tomato sauce	3	OC	0	25	25	0	25	25
47.	17.12.07 20.12.07	RY	Nutritional gardening	4	OF	18	07	25	18	07	25
48.	02.01.08 04.01.08	FW	Improved cultivation practices of winter vegetables	3	OF	19	06	25	19	06	25
49.	03.01.08 05.01.08	FW	Rice based farming system for sustainable agriculture	3	OF	19	06	25	19	6	25
50.	14.01.08 16.01.08	FW	INM in Solanaceous vegetables	3	OC	18	07	25	18	07	25
51.	15.01.08 16.01.08	FW	Acid soil management	2	OF	25	0	25	25	0	25
52.	20.01.08 21.01.08	RY	Production of quality animal; products	2	OF	14	11	25	14	11	25
53.	21.01.08 22.01.08	FW	improved cultivation practices of banana	2	OC	20	05	25	20	05	25
54.	04.02.08 06.02.08	FW	Improved cultivation practices of sweet orange and lime	3	OF	25	0	25	25	0	25
55.	04.02.08 06.02.08	RY	Agro-entrepreneurship development in rural youth	3	OC	25	0	25	25	0	25
56.	13.02.08 15.02.08	RY	Organic farming practices	3	OC	25	0	25	25	0	25
57.	18.02.08 19.02.08	FW	Formation of farm science clubs	2	OF	18	7	25	18	7	25
58.	18.02.08 20.02.08	FW	Value addition to mushroom _ Pickle	3	OC	0	25	25	0	25	25
59.	18.02.08 21.02.08	FW	Training & pruning of important fruit crops	4	OF	19	06	25	19	06	25

Sl No	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
60.	03.03.08 05.03.08	IS	Techniques of fodder crop production round the year	3	OC	21	4	25	0	0	0
61.	10.03.08 12.03.08	FW	INM and IPM in cucurbitaceous vegetable crops	3	OF	17	08	25	17	08	25
62.	14.03.08 15.03.08	FW	Empowerment through use of local resources	2	OF	20	5	25	20	5	25
63.	17.03.08 20.03.08	RY	Seed production in solanaceous vegetable crops	4	OC	15	10	25	15	10	25
64.	25.03.08 29.03.08	RY	Income generating activities (Stitching)	5	OF	0	25	25	0	25	25
				167		**1128**	**467**	**1595**	**1014**	**456**	**1470**

(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	

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

(E) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants							Sponsoring Agency
					PF/RY/ EF		Male			Female		Total		
							Others	SC/ ST	Others	SC/ ST	Others	SC/ ST	Total	
1.	Watershed development	Watershed	June 2007	7	Rural Youth	1	0	25	0	0	0	25	25	DRDA, Gajapati
Total				**7**		**1**	**0**	**25**	**0**	**0**	**0**	**25**	**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	7	450	131	581	35	12	47			
Kisan Mela	14	1579	678	2257	98	56	154			
Kisan Ghosthi										
Exhibition	2	10000	2000	12000	100	50	150			
Film Show	26	278	112	390	98	24	122			
Method Demonstrations										
Farmers Seminar										
Workshop										
Group meetings										
Lectures delivered as resource persons	34	604	246	850	80	0	80			
Newspaper coverage	18									
Radio talks										
TV talks										
Popular articles	12									
Extension Literature	8									
Advisory Services										
Scientific visit to farmers field	84	214	52	266	42	18	60			
Farmers visit to KVK	55	98	12	110	16	8	24			
Diagnostic visits										
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)										
Any Other (Specify) Krushak Sampark mela	14	1579	678	2257	98	56	154			
Total										

3.5 Production and supply of Technological products

SEED MATERIALS

Category	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
OILSEEDS					

PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)					

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS			
2	OILSEEDS			
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS			
TOTAL				

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
Grafts	**Mango**	**Amrapalli, langra, alphanso**	**6245**	**103043**	**6245**
	Guava	**L-49 AS**	**100**	**1100**	**100**
	Litchi	**Bambai, Queen**	**725**	**7975**	**725**
SPICES					
VEGETABLES	**Tomato**	**BT-10**	**50,000**	**4000/-**	**50,000**
	Brinjal	**BB-44**			
	Cabbage	**Benson**			
	Cauliflower	**Badal**			
FOREST SPECIES	**Teak**	**Selection**	**40**	**200**	**40**
	a. mangium	**Selection**	**245**	**980**	**245**
ORNAMENTAL CROPS					
PLANTATION CROPS					

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
Others (specify)					

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	7070	1,12,118	7070
2	VEGETABLES	50,000	4,000	50,000
3	SPICES			
4	FOREST SPECIES	285	1180	285
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL	**57355**	**117298**	**57355**

BIO PRODUCTS

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
1						
2						
3						
4						
BIOFERTILIZERS						
1						
2						
3						
4						
BIO PESTICIDES						
1						
2						
3						
4						

SUMMARY

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

LIVESTOCK

Sl. No.	Type	Breed	Quantity	Value (Rs.)	Provided to No. of Farmers

			(Nos	Kgs		
Cattle						
Sheep and Goat						
Poultry						
Fisheries						
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					
5	OTHERS					
	TOTAL					

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

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

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Integrated nutrient management in Rice –Wheat cropping system (Indian Journal of Agronomy Integrated nutrient management in sweet orange(Orissa journal of Horticulture) Soil microbial biomass, N as influenced by INM in rice. (*Orissa Bigyan Congress*) Effect of fertilizer on yield quality and foliar NPK content of pineapple. (*Orissa Journal of Horticulture*). Total productivity and NPK removal under rice-wheat cropping system. (Pantnagar Journal of Agricultural Research)	H.K. Patro & Associates R.K. Tarai & S.N. Ghos H.K. Patro and Associates R.K. Tarai & S.N. Ghosh H.K. Patro & Associates	4
Technical reports	Improved cultivation of Blackgram Improved package and practices of sesamum cultivation	H.K. Patro, D.J. Bage and T.L. Mohanty H.K. Patro, D. Panda and T.L. Mohanty	2
News letters	Value addition in guava Vermicomposting – development of low cost vermicomposting unit	S. Acharya K.V.K (Gajapati)	2
Technical bulletins	Improved cultivation of Blackgram – Improved package and practices of	H.K. Patro, D.J. Bage and T.L. Mohanty H.K. Patro, D. Panda and T.L. Mohanty	2

	sesamum cultivation		
Popular articles	Protect your food from attack of rodents Improved package and practices of Cauliflower and Cabbage Improved cultivation of sweet orange Urnat pranalire pala chatu chasa Tina patrare phala o paniparibа sarankhyan Pustisara khadya chattu Phala mithai ba Murbja	D. Panda M. R. Pattanaik H.K. Patro and R.K. Tarai H.K.Patro, Anupam Bharat S. Acharya S. Acharya, H.K. Patro, Sambad	7
Extension literature	Improved blackgram cultivation Improved Sesamum Cultivation Organic Manures Honeybee cultivation – A Profitable venture	H.K. Patro, D.J. Bage and D. Panda H.K. Patro, D. Panda and T.L. Mohanty H.K. Patro and D. Panda D. Panda	4
Others (Pl. specify)			14
TOTAL			21

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

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)

CASE STUDY – 1

Vermicomposting unit in own nursery.

1. **Name of the Enterprise/Practice/Technology :**

   Vermicomposting

2. **Name & address of the farmer :**

   Sri. Manoranjan Nayak

   At/Vill.- Kerandi

   Block – Gosani

   Dist - Gajapati

3. Initial status :

Gajapati being a tribal dominated district farmers have been cultivating without the use of chemical fertilizers and pesticides since ages as most of the farmers use cow dung manures and had little knowledge about vermicomposting and organic farming therefore, obtained low production by use of traditional method of farming.

Kerandi a non-descript farming village on the out skirts of Paralakhemundi town about 60 kms. away from R. Udayagiri. About 220 farm families' mostly small and marginal farmers depend on agriculture and cultivate paddy, vegetables like brinjal, okra, tomato, chilli, etc and also undertake dairy in small scale. Even though the village is very nearer to the town has immense potential for meeting the demand of vegetable and other crop cultivation but non availability of sufficient quantity of organic manures and biomass restricted the supply of vegetables and the practice of vermicompost was never adopted.

Lack of knowledge and skill of improved cultivation practices also attributed to low production of vegetables despite huge demand in the nearby town.

4. **K.V.K intervention**

Keeping in view of the potential demand of quality vegetables in Paralakhemundi market a field day was organized in the village on organic farming and video shows were organized regarding organic farming and vermicomposting. Apart from that, vocational training on "Organic farming and Vermicomposting" was imparted to twenty five farmers of Kerandi village.

5. Innovative extension approach:

Krishi Vigyan Kendra (Gajapati) exposed the farmers towards quality vegetable production through use of vermicompost. Video shows on organic farming and vermicomposting were also shown to the farmers. Linkage was facilitated with Horticulturist, Paralakhemundi and D.A.O Paralakhemundi for necessary infrastructure facilities, funds and marketing. Linkages were also made with NGO's, SHGs for supplying Earthworms at reasonable price.

6. Details of the technology. Please specify details of the technology/ practice/ enterprise introduced.

Vermicomposting techniques

- Establishment of Vermicomposting unit in cool, moist and shady site.
- Chopping of dried materials into small pieces of 5 cm size.
- Mixing of Cow dung and leafy materials are in the proportion of 3:1 and are kept for 15-20 days for partial decomposition
- In bottom of the bed a layer of 15-20 cm of chopped dried grasses or leaves to be kept as bed materials. On top of that another layer of partially decomposed materials to be filled alternatively (5-6 layers) of partially decomposed cow dung and chopped materials.
- Earthworms (1 kg) are to be released in the upper layer of mixture.
- Immediately after the release of worms water is sprinkled on the pit.

- Daily twice water to be sprinkled for keeping the bed materials moist. Then bed is covered with gunny bags /polythene to maintain optimum moisture level.

7. Adoption of the technology & benefit, to the farmers:

After being exposed to extension and technical interventions by K.V.K Gajapati the farmers tried the low cost vermicomposting units in backyard by use of cheap materials and low cost structures of about 50 cft and from this small unit using only RCC Rings used for wells and dry organic matter.

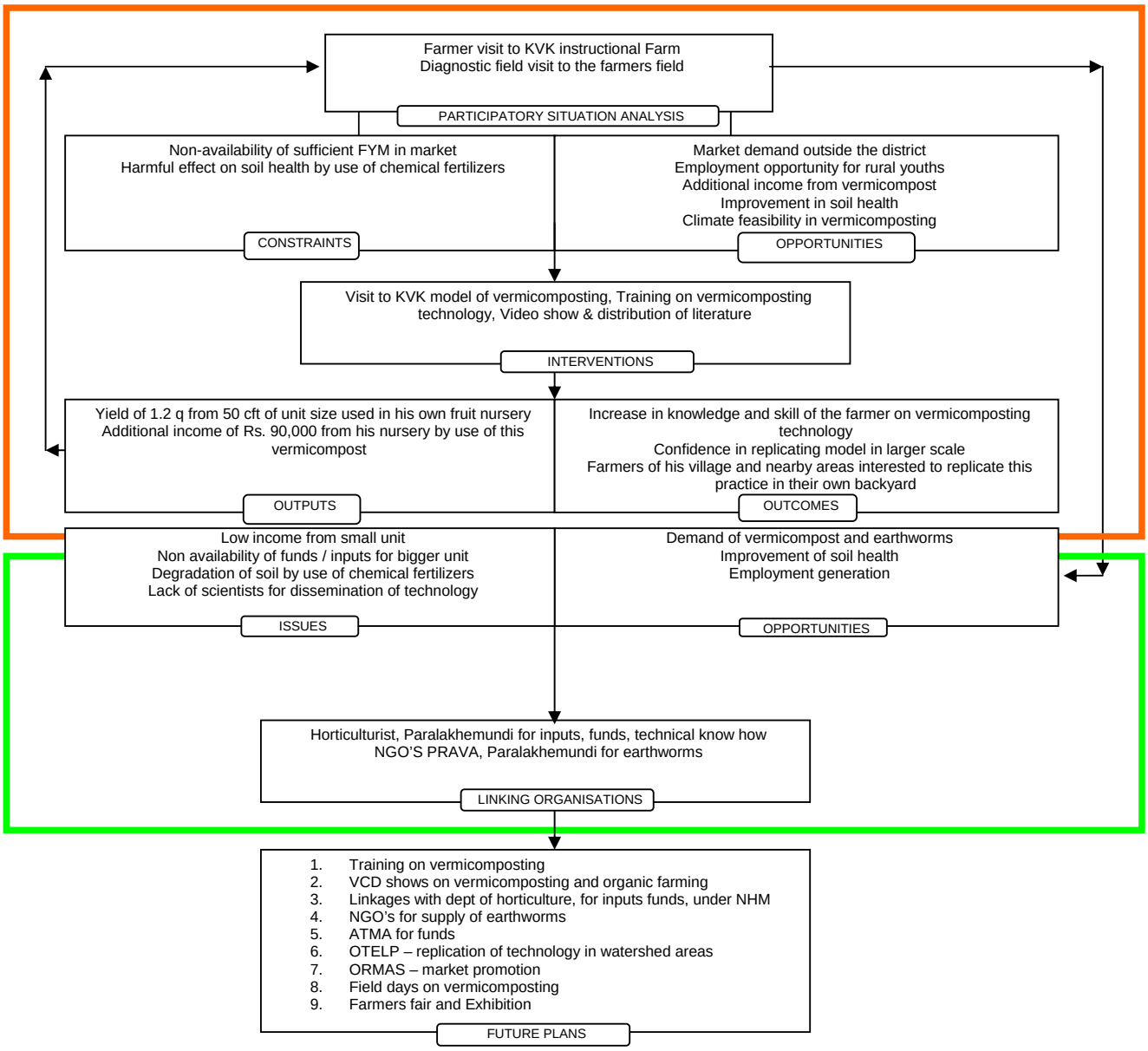
Scientists demonstrating low cost Vermicompost

From one such unit of Sri. Manoranjan Nayak , he got a total yield of 1.2 quintal of vermicompost which he used it in his own fruit nursery. Being inspired from this unit Sri Nayak showed keen interest for a bigger vermicomposting unit and luckily with the provision through National Horticulture Mission, Gajapati district through Dept. of Horticulture his project proposal was accepted and Rs. 60,000/- was sanctioned and his unit was established. This unit constituted of 3 cemented pits (15' x 5' x 5') and thatched roof shed. He released 3 kg of earthworms (*Eisenia foetida*) @ 1 kg/pit upon 6 tractor loads of farm wastes @ 2 T.L. per pit which costs about Rs. 3000/- . He adopted the techniques of cleaning and sprinkling of water and other practices of vermicomposting. From these three units, he was able to generate income from 2.5 tonnes of vermicompost (3 pits x 4 cycles) @ Rs. 4/- per kg and 5 kg of earthworms (3 pits x 4 cycles) @ Rs. 500/- per kg. totaling 12,500/- in the first year and expected to increase his income to Rs. 30,000/-

Sri, Nayak has also been actively involved in QPM production and applying the vermicompost in his nursery. This also increased production of fruit seedlings in nursery. In his nursery he adopted K.V.K developed cropping system and cropping pattern modules helping him in growing year round vegetables as intercrops from his already established mother orchard by the use of modern and improved practices and that using organically methods. After his interaction with K.V.K scientists, yield and production from his fruit orchard increased through adoption of better fertilizer and pest

management practices. Moreover, he was able to increase his seedling production and reduce mortality of saplings of fruit crops.

8. Model of technology dissemination (Please indicate sequence of interventions, services, linkages, etc supported for technology dissemination.)



9. Farmers reaction & feedback :

The farmers of the village very much appreciated the low cost model of vermicomposting which could be cheaply and easily manufactured from their own backyard. Most of the farmers from who have visited Sri Nayak and others unit have shown interest in starting such a unit of their own.

10. Extent of diffusion on effect of the newly adopted technology or practice (Please indicate area expansion in detail) :

Being inspired the success of Sri. Manoranjan Nayak, farmers have showed keen interest towards use of Vermicompost and adapting it as a commercial enterprise in their very livelihood as a sustainable means for their upliftment have approached K.V.K Gajapati for starting a small unit in their own backyard.

11. Follow up action by K.V.K :

Scientists from K.V.K Gajapati have been regularly visiting the farmers and extending all possible recommendations of vermicompost production setting up an example of Sri. Nayak as one of their own farmer brother to have undertaken such a successful venture.

12. **Action Photographs :**

CASE STUDY – 2

Brinjal .

1. Name of the Enterprise/Practice/Technology :

Improved

2. Name & address of the farmer :

Sri. Krushna Chandra Nayak
At/Vill.- Lubursing
Block – R. Udayagiri
Dist – Gajapati

3. Initial status :

Gajapati being a tribal dominated district farmer have been cultivating without the use of chemical fertilizers and pesticides since ages as most of the farmers use FYM and had little knowledge about improved cultivation practices of brinjal and obtained low production by use of traditional method of farming. The average yield of the district being 120 q/ac.

Lubursing a tribal village with 49 farm families is situated 6 kms from R. Udayagiri town. Paddy and maize are the main crop of the farmers and occupy 80% of the entire cultivated area during the kharif season. Farmers also cultivated brinjal, tomato, cabbage, cauliflower and other vegetables during kharif season using traditional methods and local varieties without knowledge of wilt resistant brinjal cultivation. The

farmers obtained 30-40q/ac of brinjal from 1acre and the village produced about 250q of brinjal.

4. **K.V.K intervention**

Realizing their prime choice on brinjal crop which can be cultivated throughout the year and fetches high local market price K.V.K Gajapati took the initiative and provided them with wilt resistant brinjal variety BB-44 along with neem cake and chemical fertilizers DAP and MOP, pesticides and growth promoters (Planofix).

5. Innovative extension approach:

Krishi Vigyan Kendra (Gajapati) exposed the farmers towards wilt resistant brinjal production through integrated use wilt resistant of organic chemical fertilizers, organics, pesticides and growth promoters. Literatures on improved package and practices on brinjal cultivation were provided to the farmers. Linkage was facilitated with AHO, R. Udayagiri, for necessary inputs and follow up.

6. Details of the technology

i. Raising of healthy seedlings

Seedlings were raised on fertile and raised seedbed of size 5 m X 1m X 0.15m. In the nursery bed 500 gms of Shyamala and 20 gms Furadan were applied. Soil sterilization and plant protection measures were taken.

ii. Planting time and spacing

June-July & Sept-October with spacing 60cm X 45cm.

iii. Integrated plant nutrient management

For maintaining good soil health and obtaining higher productivity, chemical fertilizers (Shyamala) alongwith organics like Neem cake were provided. 40 days after transplanting the plants were sprayed with micronutrients (Tracel 1 ml/l)

iv. After care

Gap filling weeding and irrigation at 15 days interval.

v. Hormone application

Planoifix @ 2 ml/l were sprayed from flowering upto 70 days at 15 days interval.

vi. Pest and disease management

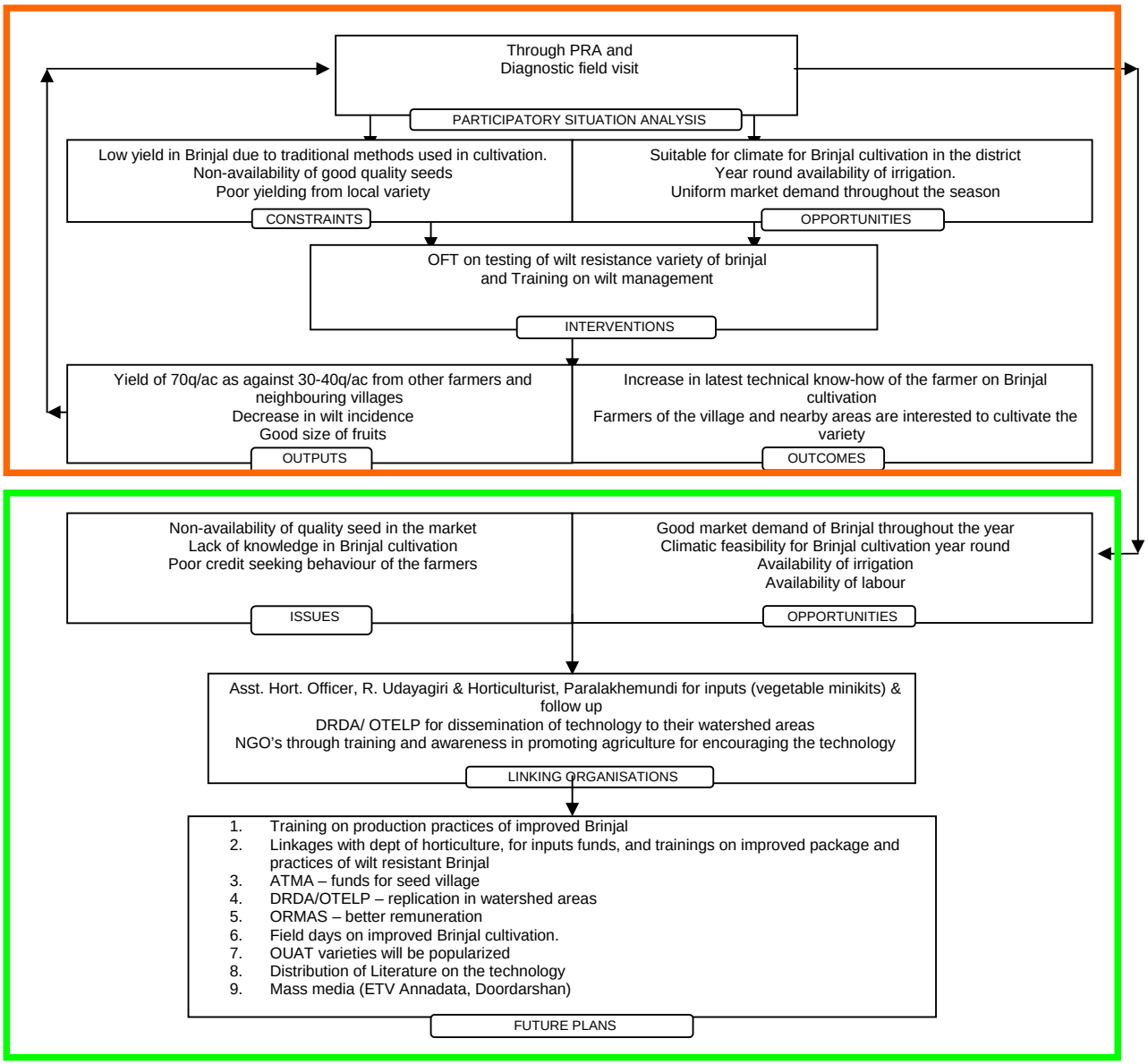
For control of shoot and fruit borer Malathion @ 2 ml/l was sprayed

7. Adoption of the technology & benefit, to the farmers:

After being exposed to extension interventions made by K.V.K Gajapati the farmers having land adjacent to Sri Nayak came forward to adopt the technology which gave good sized fruit that matured 70 days after transplanting and yielded about 70q/ac against their local variety of 40q/ac.

8. Model of technology dissemination (Please indicate sequence of interventions, services, linkages, etc supported for technology dissemination.)

WILT RESISTANT BRINJAL CULTIVATION



9. Farmers reaction & feedback :

The farmers of Lubursing village were surprised after visualizing the success of wilt resistant brinjal cultivation. Most of the farmers who have visited Sri Nayak field have appreciated the technology and are interested in replicating this practice of their own and have requested KVK Gajapati to provide seeds.

10. Extent of diffusion on effect of the newly adopted technology or practice (Please indicate area expansion in detail) :

Being inspired the success of Sri. Krushna Chandra Nayak, some more farmers in the village have showed keen interest towards cultivating wilt resistant brinjal. Now Sri.

Nayak has become a successful farmer as well as leading farmer in disseminating this improved practice and has always attended to their queries on brinjal cultivation. This success has also inspired farmers of nearby villages like Kankadaguda, Sabarpalli, and Sundurba.

11. Follow up action by K.V.K :

Scientists from K.V.K Gajapati have been regularly visiting the farmers and imparting training on wilt resistant brinjal cultivation and extending all possible recommendations of improved vegetable cultivation.

12. Action Photographs

To be sent in hard copy later

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

Mentioned earlier

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)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

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

- **Identification of courses for farmers/farm women**
  - Training need assessment
  - Group discussion with farmers
  - Discussion with the department officials
  - Benchmark survey/PRA
  - Feed back after each training programme

- **Rural Youth**
  - Training need assessment
  - Group discussion with farmers
  - Discussion with the department officials
  - Benchmark survey
  - Feed back after each training programme

- **In-service personnel**
  - Training need assessment
  - Group discussion with department officials
  - Discussion with the subject matter specialist
  - Attending the monthly review meeting
  - Feed back after each training programme

3.11 Field activities

i. Number of villages adopted : 5
ii. No. of farm families selected : 426
iii. No. of survey/PRA conducted : 5

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :

1. Year of establishment :
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1			
2			
3			
Total			

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Total				

4.0 IMPACT

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

Newly established KVK since 2005, large scale adoption will be studied after one more year

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

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)

Newly established KVK since 2005, large scale adoption will be studied after one more year

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

Newly established KVK since 2005, large scale adoption will be studied after one more year

5.0 LINKAGES

5.1 Functional linkage with different organizations

Sl. No.	Name of Organization	Nature of linkage
1.	State Dep't. (Agriculture/Horticulture/Soil Conservation/Forestry/Pisciculture/ Animal Husbandry)	- Inputs, follow up - Sponsored training programmes - Training of Extension Functionaries - Farmer scientists interaction - Input procurement - Dissemination & popularisation of technologies
2.	Regional Plant Resource Centre, Bhubaneswar	- Input Procurement
3.	CIFA, Bhubaneswar	- HRD - Input Procurement
4.	CRRI, Cuttack	- Paddy Seeds Procurement - Collection of Information
5.	DRDA, Gajapati	- Information source - Dissemination of technology - Member (SAC) - Funding for training, inputs, etc.
6.	ITDA, Gajapati	- Information source - Trainings - Collaborative awareness - Funding for inputs and disemmination
7.	AIR, Berhampur	- Recording Programme - Member (SAC)
8.	NABARD	- Collaborative awareness
9.	Local NGOs namely SWSS, PREM-PLAN, JKP, etc	- HRD for NGO functionaries - Input supply - Knowledge up gradation
10.	News paper media	- Publication, popularisation
11.	Asst. Seed Certification Office	- Input supply , certification
12.	Asst. Seed Production Office	- Input supply & procurement

NB **The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other.**

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes (Newly implemented in September, 2007)

S. No.	Programme	Nature of linkage	Remarks

1			

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

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

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

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)

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) : Not available

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
October 2006			
November 2006			
December 2006			
January 2007			
February 2007			
March 2007			
April 2007			
May 2007			
June 2007			
July 2007			
August 2007			
September 2007			

(for whole of the year)

7. FINANCIAL PERFORMANCE

7.1 Details of K.V.K. Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute			
With KVK	State Bank Of India	R.Udayagiri	11570672119

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2008
	Kharif 2007	Rabi 2007-08	Kharif 2007	Rabi 2007-08	
Inputs	-	8750	-	8750	Nil
Extension activities	-	1250	-	1250	Nil
TA/DA/POL etc.	-	900	-	900	Nil
TOTAL	-	10900	-	10900	Nil

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2008
	Kharif 2007	Rabi 2007 -08	Kharif 2007	Rabi 2007-08	
Inputs	9190	9190	9190	9190	Nil
Extension activities	1315	1315	1315	1315	Nil
TA/DA/POL etc.	1790	1790	1790	1790	Nil
TOTAL	12295	12295	12295	12295	Nil

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2008
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Inputs	NOT APPLICABLE				
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.5 Utilization of KVK funds during the year 2007-08 (upto March. 2008) (year-wise separately) (current year and previous year)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	20,00,000	20,00,000	16,13,773
2	**Traveling allowances**	78,000	78,000	74,056
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments	2,12,500	2,07,385	2,07,385
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	3,37,500	3,30,000	3,30,000
TOTAL (A)		**26,28,000**	**26,15,385**	**22,25,214**
B. Non-Recurring Contingencies				
1	**Works**	-		
2	**Equipments including SWTL & Furniture**	95,000	85,899	84,490
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**27,23,000**	**27,85,724**	**23,09,704**

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 2004 to March 2005	-	-	-	-
April 2005 to March 2006	1,00,000	1,92,095	100000	2,92,095
April 2006 to March 2007	2,92,095	71,310	42,589	3,20,816
April 2007 to march 2008	3,20,816	1,73,160	1,00,000	3,93,976*

*** Note : A Sale proceed of rs 2,72,294 has been deposited so far to the university by 31st March 2008 and a stock of worth Rs. 1,21,682/- is in hand.**

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

8.1 Constraints

(a) Administrative

Only two Subject Matter Specialists are currently posted at K.V.K, Gajapati, R. Udayagiri.

(b) Financial

(c) Technical

Non availability of administrative building and lack of other basic infrastructure and amenities.

Sd/-

(Signature of Programme Coordinator)