

ANNUAL REPORT

April 2006 - March 07

KRISHI VIGYAN KENDRA
(GAJAPATI), R. UDAYAGIRI-761016

ORISSA UNIVERSITY OF AGRICULTURE & TECHNOLOGY
BHUBANESWAR-751003

CONTENTS

Sl. No.	Particulars	Page
1.	General Information	
2.	Training	
	i. Practising Farmers	
	ii. Rural youth	
	iii. Extension Functionaries	
3.	Frontline Demonstration	
	i. Oilseed & pulses	
	ii. Other crops	
4.	On Farm Testing	
5.	Activities in the Instructional Farm	
6.	Other Extension Activities	

ANNUAL REPORT OF KRISHI VIGYAN KENDRA, GAJAPATI,
R. UDAYAGIRI FROM APRIL, 2006 – MARCH, 2007

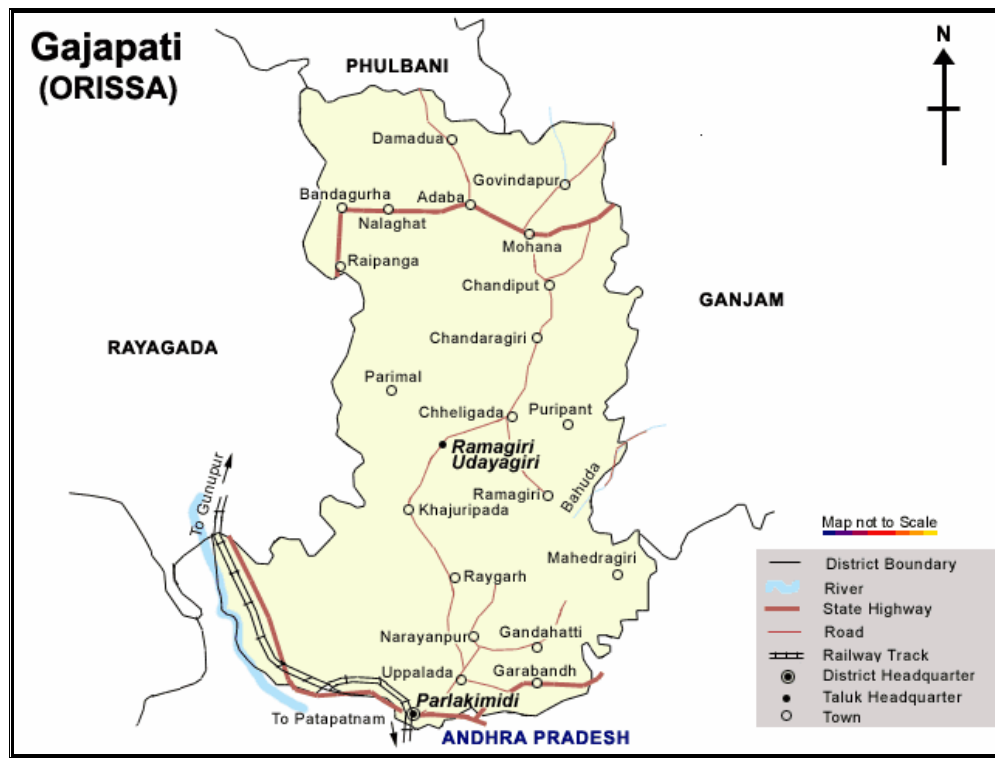
INTRODUCTION

The district of Gajapati lies between 18° 47'N and 87° 08' E longitude geographically. It extends upto Andhra Pradesh and Ganjam in East, Rayagada district on the West, Ganjam & Phulbani on North and Andhra Pradesh on South. The geographical situation is characterized by undulating topography.

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. Gosani ,Kasinagar, R.Udayagiri, Mohana and Nuagada . 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 10° to 37°C in the tribal blocks where as 16°C to 39°C 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. So the extension workers & KVK scientists working in the district have trained local leaders to raise their standard of living by their own efforts using their own resources of manpower and materials with minimum assistance from Government. The farmers organizations are also trained to handle the day to day routine work such as distribution of agricultural inputs & implements and marketing of the produce etc. aiming to bridge the gap between research and the farmers experience by developing the knowledge will power and skill of the farmer.



District Map of Gajapati

K.V.K. (GAJAPATI)

01. K.V.K. Code :
 02. Name of the K.V.K. : Krishi Vigyan Kendra, Gajapati
 03. Address of K.V.K. : Krishi Vigyan Kendra
 At/Po. - R.Udayagiri
 Dist- Gajapati
 Pin- 761016
- Telegraphic address : Krishi Vigyan Kendra, Gajapati
- Telephone No. with STD :
 (Office & Residence) :
 Fax No. :
 E-mail : kvkgajapati@yahoo.co.in
04. Name of the host organization : Orissa University of Agriculture
 Technology, Bhubaneswar-751003
05. Address of the host Institution : Vice-Chancellor, OUAT,
 Bhubaneswar-751003
- Telegraphic Address : GRAM-AGRITECH
 Telephone No. with STD : 0674-2407780
 (Office & Residence)
 Fax No. : 0674- 2407780
 E-mail : vc@ouat.ori.nic.in

06. STAFF POSITION (AS ON 31st March, 2007)

Sl. No.	Name	Designation	Discipline	Highest Degree	Pay Scale	Date of Joining	SC/ ST/ OBC/ Gen.
1.	Dr. Hrusikesh Patro	Programme Coordinator	Agronomy	Ph.D.	10000-15200	02.05.05	General
2.	Mr. Debasis Panda	Subject Matter Specialist	Plant Protection	M.Sc. (PP)	8000-13500	06.01.06	General
3.	Mr. David James Bage	Subject Matter Specialist	Extension	M.Sc. (Ext.)	8000-13500	16.01.06	ST
4.	Dr. Rajan Kumar Tarai	Subject Matter Specialist	Horticulture	Ph.D	8000-13500	19.07.06	General
5.	Mr. Biswajit Pradhan	Programme Assistant	Computer	PGDCA	5500-9000	27.02.06	General
6.	Mrs. Sumita Acharya	Programme Assistant	Home Science	M.(Phil.)	5500-9000	12.10.06	General
7.	Mr. Manas Ranjan Pattanaik	Farm Manager	Agri. Econ.	M.Sc (Ag.)	5500-9000	01.08.06	General
8.	Mr. Sadanand Mohanta	Jr.Steno-cum-Computer Operator	Stenography	B.Sc	4000-6000	16.10.06	General

07. Total land with K.V.K. (ha) : 24.61

a.	Under building	Yet to be constructed
b.	Under demonstration unit	Yet to be constructed
c.	Under crops	`
d.	Orchard/ Agro forestry	11.75
e.	Others	12.86

08. Infrastructural facilities :

Sl. No.	Particulars	Unit (No.)	Plinth area in (sq. mt)	Year of completion	Remarks
1.	Administrative Building	1	—	—	Submitted for approval
2.	Farmers Hostel	1	—	—	Submitted for approval
3.	Staff quarters	6	—	—	Submitted for approval
4.	Demonstration unit				
	a) Propagation Unit	1	—	—	Submitted for approval
	b) Farming System Unit	1	—	—	Submitted for approval

09. Details of K.V.K Bank Accounts

	Particulars	Name of Bank	Location	Account No.
1.	Current A/C of K.V.K	State Bank of India	R.Udayagiri	01000060470

10. Description of agroclimatic zone and farming situation of the district

Krishi Vigyan Kendra, Gajapati situated in the North Eastern Ghat Agro-climatic zone of Orissa. This zone covers the agricultural districts of Khurda, Nayagarh, Aska, Paralakhemundi, Rayagada, Gunupur, Phulbani, and Boudh of Orissa. North eastern Ghat Zone consists of hill ranges which belong to main line of Eastern Ghats with plains and valleys lying between hill ranges and large plateaus having elevation 300 m to 800 m above Mean Sea Level. Soils of this zone are brown forest soils which are medium textured, moderately to slightly acidic and medium in soil fertility. The climate is hot and moist sub humid with mean maximum temperature of 37C and mean winter minimum temperature of 10.4C. The mean annual rainfall is 1600mm of which about 80% is received during rainy season. This region comes under medium deficit to moderately high moisture deficit zone. Rice is the principal crop occupying 30% of the gross cropped area.

Out of total geographical area of 3.85 lakh ha of Gajapati district, the cultivable area is 80,000 ha under cultivation. Major crops grown in the district are Cereals : Paddy, Ragi and Maize, Pulses : Black gram, Green gram and Arhar, Oilseeds : Sesamum & Niger, Fibre crops : Cotton, Fruit crops : Mango, Cashew, Litchi, Pine apple, Litchi, and the areas, especially the valleys are better adopted to Citrus (Lemon and Sweet Orange). There is a scope to develop dairy farming and goatery in the district. Besides, the flat top ridges, having shallow soil, unsuitable for arable farming, can be developed to pasture lands with

management and protective grazing. The high altitude accomplishing cooler climate and red loam soils are conducive for growing plantation crops like Black pepper, Cardamom, Cinnamon, and other plantation crops (Coconut, Arecanut) and other spice crops like Ginger, Turmeric etc.

11. Thrust areas identified through PRA, Survey or any other method

Sl. No.	Crops/Activities	Thrust area identified
1.	Paddy	<ul style="list-style-type: none"> ➤ Integrated Nutrient management in paddy by using bio-fertilizer and micronutrient for higher yield ➤ Integrated Pest management in kharif and summer paddy
2.	Ragi	<ul style="list-style-type: none"> ➤ Develop awareness on intercropping of Ragi with Arhar for higher income generation and risk management ➤ Varietal replacement with introduction of HYV
3.	Arhar	<ul style="list-style-type: none"> ➤ Varietal replacement with introduction of HYV
4.	Blackgram	<ul style="list-style-type: none"> ➤ Varietal replacement with introduction of HYV
5.	Greengram	<ul style="list-style-type: none"> ➤ Varietal replacement with introduction of HYV
6.	Sesamum	<ul style="list-style-type: none"> ➤ Varietal replacement with introduction of HYV ➤ Integrated nutrient management
7	Mango	<ul style="list-style-type: none"> ➤ Varietal replacement with introduction of improved variety
8		<ul style="list-style-type: none"> ➤ Varietal replacement with introduction of improved variety
9	Tomato	<ul style="list-style-type: none"> ➤ Integrated nutrient management in Tomato ➤ Integrated pest and disease management in Tomato
10	Okra	<ul style="list-style-type: none"> ➤ Varietal replacement with introduction of YVM virus resistant variety ➤ Integrated nutrient management
11	Nutritional gardening	<ul style="list-style-type: none"> ➤ Development of nutritional garden with HYV vegetables and fruits for nutritional security
12	Oyster mushroom cultivation	<ul style="list-style-type: none"> ➤ Use of proper strain for growing husbandry to increase yield and family income
13	Vermicompost	<ul style="list-style-type: none"> ➤ Improved method of preparation of vermicompost for increasing yield and quality of vegetables and fruits
14	Storage bin	<ul style="list-style-type: none"> ➤ To reduce damage of seeds and enhance germination
15	Preservation of fruits, vegetables, etc	<ul style="list-style-type: none"> ➤ Utilization of surplus vegetables and fruits for nutritional security
16	Poultry	<ul style="list-style-type: none"> ➤ Breed improvement by replacement
17	Goatery	<ul style="list-style-type: none"> ➤ Breed improvement by replacement
18	Soil and water conservation	<ul style="list-style-type: none"> ➤ In-situ soil moisture conservation. ➤ Erosion control ➤ Management of sloppy lands. ➤ Wasteland management
19	Horticulture	<ul style="list-style-type: none"> ➤ Promotion of fruit crops. ➤ Rejuvenation of old and senile orchards
20	Forestry	<ul style="list-style-type: none"> ➤ Promotion of social and farm forestry ➤ Community sensitization towards conservation of forest. ➤ Discouragement of <i>Jhoom</i> (Shifting) cultivation

12. TRAINING ACHIEVEMENTS

(A) TRAINING TO FARMERS/ FARMWOMEN (April'06 to March'07

(B)

(C)) OFF –CAMPUS

Sl. No.	Title of training	Duration (Days)	SC	ST			OTHERS						Total		
Crop Production			M	F	T	M	F	T	M	F	T	M	F	T	
1	Bio-farming in rice	2	6	-	6	14	-	14	-	-	-	20	-	20	
2	Weed management in direct seeded rice	3	4	-	4	9	2	11	-	-	-	13	2	15	
3	Integrated nutrient management in rice	2	5	-	5	5	-	5	-	-	-	10	-	10	
4	Watershed management	2	3	-	3	7	-	7	-	-	-	10	-	10	
5	Seed treatment and rhizobium inoculation in pulses	2	4	-	4	-	9	9	-	2	2	4	11	15	
6	Management of acid soil	2	3	-	3	6	-	6	1	-	1	10	-	10	
7.	Storage of groundnut seeds	2	-	-	-	7	3	10	-	-	-	7	3	10	
8.	Biodynamics compost making	3	-	-	-	8	2	10	-	-	-	8	2	10	
9.	Farming system model for hills	2	-	4	4	9	12	21	-	-	-	21	4	25	
10.	Entrepreneurship development in Agriculture	3	5	2	7	21	2	23	-	-	-	26	4	30	
11	INM in sugarcane	2	-	-	-	23	2	25	-	-	-	23	2	25	
Total		25	30	6	36	109	32	141	1	2	3	152	28	190	
Horticulture															
1	Banana cultivation	2	4	2	6	7	2	9	-	-	-	11	4	15	
2	Improved mango cultivation	2	-	8	8	7	2	9	3	-	3	10	10	20	
3	Improved cultivation of litchi	2	7	-	7	4	4	8	-	-	-	11	4	15	
4	Improved guava cultivation	2	6	-	6	6	2	8	1	-	1	13	2	15	
5	Management of lemon orchard	2	3	-	3	12	-	12	-	-	-	15	-	15	
6.	Prospects of off-season vegetables	2	-	-	-	20	5	25	-	-	-	20	5	25	
Total		12	20	10	30	56	15	61	4	-	4	85	25	105	
Plant protection															
1	Techniques of seed and seedling treatment	2	8	-	8	12	-	12	-	-	-	20	-	20	
2	Eriophyid mite control in Coconut	2	5	-	5	10	-	10	-	-	-	15	-	15	
3	Eriophyid mite control in coconut	2	5	-	5	10	10	10	-	-	-	15	-	15	
4	IPM in rice	6	-	-	-	10	-	10	-	-	-	10	-	10	
5	Management of stored grain pest	4	-	-	-	17	8	25	-	-	-	17	8	25	
Total		184	13	-	13	61	11	72	-	-	-	74	11	85	
Women in Agriculture															
1	Preparation and value	3	-	5	5	-	10	-	-	-	-	-	15	15	

Sl. No.	Title of training	Duration (Days)	SC	ST			OTHERS					Total		
	addition from different seasonal fruits (lemon) and vegetable (tomato)													
2	Fabric painting	3	-	3	3	-	7	7	-	-	-	-	10	10
3	Stitching of dress materials	3	-	6	6	-	19	19	-	-	-	-	25	25
Total		9	-	14	14	-	36	26	-	-	-	-	50	50
Agriculture Extension														
1	Formation and operation of SHGs	2	-	-	-	17	3	20	-	-	-	17	3	20
2	Development of Leadership	2	-	-	-	15	-	15	-	-	-	15	-	15
Total		4	-	-	-	32	3	35	-	-	-	32	3	35
Forestry														
1	Industrial plantation of <i>Eucalyptus</i> spp.	3	2	-	2	13	-	13	-	-	-	13	2	15
2	Commercial plantation of <i>Acacia mangium</i>	2	-	2	2	-	8	8	-	-	-	-	10	10
3	One day training programme on plantation technique on teak	1	2	-	2	13	-	13	-	-	-	15	-	15
4	One day training programme on plantation technique of teak and <i>acacia mangium</i>	1	1	-	1	14	-	14	-	-	-	15	-	15
Total		7	5	2	7	40	8	48	-	-	-	43	12	55

TRAINING TO FARMERS/ FARMWOMEN (April'06 to March'07) ON CAMPUS

Sl. No.	Title of training	Duration (Days)	SC			ST			OTHERS			Total		
Crop Production			M	F	T	M	F	T	M	F	T	M	F	T
1	Weed and nutrient management in Maize	2	5	-	5	10	-	10	-	-	-	15	-	15
2	Application of Biofertilizers	3	-	1	1	19	5	24	-	-	-	24	1	25
3	Watershed Management	5	3	2	5	19	1	20	-	-	-	22	3	25
Total		10	8	3	11	48	6	54	-	-	-	61	4	65
Horticulture														
1	Wilt solanaceous vegetables management of	2	-	-	-	15	-	15	-	-	-	15	-	15
2	Management of fruit orchard	4	-	-	-	12	13	25	-	-	-	12	13	25
Total		6	-	-	-	27	13	40	-	-	-	27	13	40

Plant protection														
1	Insect pest control in Brinjal	2	5	-	5	12	3	15	-	-	-	17	3	20
2	Operation and Maintenance of Sprayer	2	-	-	-	28	2	30	-	-	-	28	2	30
3	IPM in Oil seeds	2	5	-	5	20	-	20	-	-	-	25	-	25
Total		6	10	-	10	60	5	65	-	-	-	70	5	75
Women in Agriculture														
1	Preparation of value added products	2	4	3	-	16	2	18	-	-	-	20	5	25
Total		2	4	3	-	16	2	18	-	-	-	20	5	25
Agriculture Extension														
1	Application of ITKs in Agriculture and allied sectors	3	2	3	5	6	4	10	-	-	-	8	7	15
2	Formation and Operation of SHGs	2	-	-	-	17	3	20	-	-	-	17	3	20
Total		5	2	3	5	23	7	30	-	-	-	25	10	35
Forestry														
1	Forest nursery development and maintenance	3	3	-	3	6	1	7	-	-	-	9	1	10
Total		3	3	-	3	6	1	7	-	-	-	9	1	10

SUMMARY OF TRAINING FOR FARMERS/FARM WOMEN (APRIL, 06 TO MARCH, 07)

Subject	No of Programme	Duration in Days	No of Participant											
			SC			ST			Others			Total		
			M	F	T	M	F	T	M	F	T	M	F	T
Crop Production	14	35	38	9	47	157	38	195	1	2	3	213	32	255
Horticulture	08	18	20	10	30	83	28	101	5	-	4	112	38	150
Plant Protection	08	24	23	-	23	121	16	137	-	-	-	144	16	160
Women in Agriculture	04	11	4	17	14	16	38	44	-	-	-	20	55	75
Agri. Extension	04	09	2	3	5	55	10	65	-	-	-	57	13	70
Forestry	05	10	8	2	10	46	9	55	-	-	-	52	13	65
Total	43	87	95	41	129	478	139	597	6	2	7	598	167	765

(B). TRAINING OF RURAL YOUTH (APRIL, 06 TO MARCH, 07) OFF CAMPUS : NIL

(B). TRAINING OF RURAL YOUTH (APRIL, 06 TO MARCH, 06) ON CAMPUS

Sl. No.	Title of training	Duration (Days)	SC			ST			OTHERS			Total		
Crop Production			M	F	T	M	F	T	M	F	T	M	F	T
1	Seed production in Cereals	3	4	-	4	6	-	6	-	-	-	10	-	10
2	Seed production in Pulses	3	10	-	10	8	-	8	2	-	2	20	-	20
3	Seed production in cereals	3	-	-	-	21	4	25	-	-	-	21	4	25
Total		9	14	-	14	35	4	39	2	-	2	51	4	55
Horticulture														
1.	Raising of fruit nursery	2	-	-	-	15	5	20	-	-	-	15	5	20
2.	Seed production in vegetables	4	4	1	5	1	4	5	4	1	5	9	6	15

Sl. No.	Title of training	Duration (Days)	SC			ST			OTHERS			Total		
3.	Organic cultivation of ginger and turmeric	4	-	-	-	22	3	25	-	-	-	22	3	25
Total		10	4	1	5	38	12	50	4	1	5	46	14	60
Plant protection														
1	IPM in rice (1 st phase)	4	3	2	5	5	5	10	-	-	-	8	7	15
2	IPM in rice (2 nd phase)	6	3	-	3	7	-	7	-	-	-	10	-	10
3	IPM in rice (3 rd phase)	6	4	-	4	6	-	6	-	-	-	10	-	10
4	Bee Keeping	3	2	-	2	8	-	8	-	-	-	8	2	10
Total		19	12	2	14	26	5	31	-	-	-	36	9	45
Agriculture Extension														
1	Extension management skills	5	-	-	-	10	-	10	-	-	-	10	-	10
Total		5	-	-	-	10	-	10	-	-	-	10	-	10
Forestry														
1.	Teak stump preparation	3	5	-	5	8	2	10	-	-	-	13	2	15

SUMMARY OF TRAINING FOR RURAL YOUTH (APR, 06 TO MAR, 07)

Subject	No of Programme	Duration in Days	No of Participant											
			SC			ST			Others			Total		
			M	F	T	M	F	T	M	F	T	M	F	T
Crop Production	3	9	14	-	14	35	4	39	2	-	2	51	4	55
Horticulture	3	10	4	1	5	38	12	50	4	1	5	46	14	60
Plant Protection	4	19	12	2	14	26	5	31	-	-	-	36	9	45
Agri. Extension	1	5	-	-	-	10	-	10	-	-	-	10	-	10
Forestry	1	3	5	-	5	8	2	10	-	-	-	13	2	15
Total	12	46	35	3	38	117	23	140	6	1	7	156	29	185

C. TRAINING FOR IN-SERVICE PERSONNEL (APR, 06 TO MAR, 07)

OFF CAMPUS : NIL

C. TRAINING FOR IN-SERVICE PERSONNEL (APR,06 TO MAR, 07)

ON-CAMPUS

Sl. No.	Title of training	Duration (Days)	SC			ST			OTHERS			Total		
Crop Production			M	F	T	M	F	T	M	F	T	M	F	T
1	Crop planning in hill slopes	2	-	-	-	-	-	-	12	3	15	12	3	15
2	In-situ soil and water conservation	2	3	-	3	-	-	-	7	5	12	10	5	15
Total		4	3	-	3	-	-	-	19	8	27	22	8	30
Horticulture														
1	Use of biofertilizer in horticultural crops	2	2	-	2	-	-	-	11	2	13	13	2	15
2	INM in horticultural crops	2	1	-	1	-	-	-	14	-	14	15	-	15
Total		4	3	-	3	-	-	-	25	2	27	28	2	30
Plant protection														
1	Bee keeping	2	-	-	-	30	-	30	-	-	-	30	-	30
2	Improved methods of	1	-	-	-	13	3	16	-	-	-	13	3	16

	bee keeping													
Total		3	-	-	-	43	3	46	-	-	-	43	3	46
Extension education														
1	Training need assessment	2	2	-	2	-	-	-	12	1	13	14	1	15
2.	Preparation of project reports	2	3	-	3	-	-	-	15	2	17	18	2	20
Total		4	5	-	5	-	-	-	27	3	30	32	3	35

SUMMARY OF TRAINING FOR IN-SERVICE PERSONNEL (APR, 06 TO MAR, 07)

Subject	No of Programme	Duration in Days	No of Participant											
			SC			ST			Others			Total		
			M	F	T	M	F	T	M	F	T	M	F	T
Crop Production	2	4	3	-	3	-	-	-	19	8	27	22	8	30
Horticulture	2	4	3	-	3	-	-	-	25	2	27	28	2	30
Plant protection	2	3	-	-	-	43	3	46	-	-	-	43	3	46
Agri. Extension	2	4	5	-	5	-	-	-	27	3	30	32	2	35
Total	8	15	11	-	11	43	3	46	71	13	84	125	16	141

13. TRAINING ACHIEVEMENT

D. SPONSORED TRAINING PROGRAMME (JAN, 06 TO DEC, 06)

Sl.No	Title of training	Sponsored By	Duration in Days	No of Participant											
				SC			ST			Others			Total		
				M	F	T	M	F	T	M	F	T	M	F	T
	A. NGO's														
1	Rice cultivation	East India Mission, Berhampur	1				56	24	80				56	24	80
2	Maize cultivation	East India Mission, Berhampur	1				56	24	80				56	24	80
3	Cashew cultivation	East India Mission, Berhampur	1				56	24	80				56	24	80
4	Dehydration products of pineapple	ADS, Gumma	1				9	91	100				9	91	100
5	Modern honey bee rearing techniques	ADS, Gumma	1				72	28	100				72	28	100
6	Honey bee rearing	SDA, Chandragiri	1				50	-	50				50	-	50
7	Organic farming	PEACE, Paralakhemundi	1							50	-	50	50	-	50
8	Organic farming	Dept of Home. Central Tibetan Authority, Chandragiri	2							58	17	75	58	17	75
9	Mushroom cultivation	Jana Kalyan Pratisthan, Paralakhemundi	2				3	27	30	2	3	5	5	30	35
10	Krushak Sampark Mela, Siali	Agriculture, Govt. of Orissa	1										63	17	80
11	Krushak Sampark Mela, Luhangar	Agriculture, Govt. of Orissa	1										69	26	95
12	Krushak Sampark Mela, Sariapalli	Agriculture, Govt. of Orissa	1										76	18	94
13	Krushak Sampark Mela, Randiba	Agriculture, Govt. of Orissa	1										83	7	90
14	Krushak Sampark Mela, Serango	Agriculture, Govt. of Orissa	1										69	16	85
15	Krushak Sampark Mela, Adaba	Agriculture, Govt. of Orissa	1										45	30	75

Sl.No	Title of training	Sponsored By	Duration in Days	No of Participant											
				SC			ST			Others			Total		
				M	F	T	M	F	T	M	F	T	M	F	T
16	Krushak Sampark Mela, Ghoroni	Agriculture, Govt. of Orissa	1										54	26	80
17	Krushak Sampark Mela, Namangada	Agriculture, Govt. of Orissa	1										42	23	65
18	Krushak Sampark Mela, D. Jeypore	Agriculture, Govt. of Orissa	1										52	7	60
19	Krushak Sampark Mela, Jubagaon	Agriculture, Govt. of Orissa	1										51	24	75
20	Krushak Sampark Mela, Saralapadar	Agriculture, Govt. of Orissa	1										55	31	86
21	Krushak Sampark Mela, Koinpur	Agriculture, Govt. of Orissa	1				47	21	68				47	21	68
22	Krushak Sampark Mela, Munising	Agriculture, Govt. of Orissa	1										45	29	74
23	Training to Krushak Saathis, Parlakhemundi	Agriculture, Govt. of Orissa	4	32	-	32	16	-	16	52	-	52	100	-	100
24	Training on Maize cultivation to farmers of Patrapur, Ganjam	ATMA, Govt. of Orissa	3							22	-	22	22	-	22
			31	32	0	32	365	239	604	184	20	204	1285	513	1799

14. Result of Front Line Demonstration (Oilseeds and Pulses)

A. Oilseed : 2006-07

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Niger	Kharif	5.0	5.0	5.0	22	-	22	R. Patrapur
Sesamum	Rabi 2006-07	5.0	5.0	5.0	0	9	9	Badagam

B. Pulses: 2006-07

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Arhar	Kharif 2006-07	5.0	5.0	5.0	12	-	12	P. Antrada
Blackgram	Rabi 2006-07	5.0	5.0	5.0	10	0	10	Sabarpalli

C. Farming situation and results of demonstration on oilseed crops : 2006-07

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Niger	Kharif 2006-07	12.09.06 To 13.09.06	15.01.07 To 20.01.07	Upland	Laterite	North eastern ghat zone	Fallow	-	Annexure-I
Sesamum	Rabi 2006-07	22.01.07 To 28.01.07	24.04.07 To 01.05.07	Upland	Laterite	North eastern ghat zone	Paddy	-	Annexure-I

Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)	Increase in yield	Cost of additional cost
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							(%)	(Rs./ha)	
			Highest	Lowest	Average	Local check		Demo.	Local check
Deomali	22	5.0	8.4	4.0	7.4	4.2	76.1	1750	1150
Nirmala	9	5.0	9.6	5.4	8.2	5.6	46.4	1800	1250

D. Farming situation and results of demonstration on Pulse crops : 2006-07

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Arhar	Kharif 2006-07	17.07.06 To 22.07.06	26.01.2007 To 31.01.07	Upland	Brown forest soil	North Eastern Ghat Zone	Fallow	-	Annexure-I
Blackgram	Rabi 2006-07	23.12.06 To 27.12.06	09.03.07 To 16.03.07	Medium land	Black soil	North Eastern Ghat Zone	Paddy	-	Annexure-I

Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
			Highest	Lowest	Average	Local check		Demo.	Local check
UAS-1	12	5.0	14.8	10.2	12.4	8.2	51.2	3000	2200
PU-30	10	5.0	7.8	5.6	6.8	4.5	51.1	1800	1300

E. Analytical review of component demonstration (Crop wise separate table required)

Crop : Niger

Component	Farming situation	Average yield	Local check yield	Percentage increase in productivity over local yield
Seed var. Deomali	Upland	7.4	4.2	76.1

Crop : Sesamum

Component	Farming situation	Average yield	Local check yield	Percentage increase in productivity over local yield
Seed var. Nirmala	Upland	8.2	5.6	46.4

Crop : Blackgram

Component	Farming situation	Average yield	Local check yield	Percentage increase in productivity over local yield
Seed var. PU-30	Medium land	6.8	4.5	51.1

Crop :Arhar

Component	Farming situation	Average yield	Local check yield	Percentage increase in productivity over local yield
Seed var. UAS-1	Upland	12.4	8.2	51.2

F. Technical feedback

Crop : Niger

1. The oil percentage is higher as compared to local variety.
2. The variety responded well to fertilizer application and irrigation.

Crop : Sesamum

1. The oil percentage is higher as compared to local variety.
2. Variety is tolerant to fruit borer.
3. The variety responded well to fertilizer application and irrigation.

Crop : Arhar

1. The variety had bigger pods than local.
2. Variety is tolerant to fruit borer/ disease.
3. The variety responded well to fertilizer application and irrigation

Crop : Blackgram

1. Yield of the variety was higher due to better plant height and more number of pods per plant.
2. Seed size of the variety was bigger than the local variety..

G. Farmers reaction

Crop : Niger

1. Crop stand of the variety is good.
2. Uniform crop growth.
3. Flower head is bigger in size than the local ones.

Crop : Sesamum

1. Variety matures earlier than local variety
2. Variety gives higher yield than the local variety
3. The seed colour of the variety has low acceptance.

Crop : Arhar

1. UAS-1 variety has less pest and disease attack than the local variety.
2. Crop stand of the variety is uniform as compared to the local one.

Crop : Blackgram

1. PU-30 variety had greater yield than the local variety.
2. Seed filling of the variety was found better.
3. Low incidence of aphids and YMV.

I. Results of FLD's other than Oilseeds and Pulse crops : 2006-07

FLD-1 : Introduction of better variety of paddy as a substitute to MTU-7029

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Paddy	Kharif 2006-07	2.4	10	2.4	5	-	5	Lubursing

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Paddy	Kharif 2006-07	15.06.06 To 25.06.06	05-11.06 To 16.11.06	Low land	Brown	North eastern ghat zone	Paddy	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Paddy	Pratikshya	5	2.4	55	40	47.5	30	58.3	3915	3016

Interpretation of critical analysis of the result obtained

Paddy variety ORS 201-5 (Pratikshya) could establish significant superiority in registering 58.3% higher grain yield than the paddy variety MTU-7029 under the low land condition. Farmers were satisfied by the performance of the newly introduced variety ORS 201-5 & found it as a proper substitute to MTU 7029.

FLD-2 : Introduction of better variety of superfine paddy.

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Paddy	Kharif 2006-07	1.0	8.0	1.0	5	-	5	P. Antrada

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Paddy	Kharif 2006-07	10.06.06 To 25.06.06	12.09.06 To 25.10.06	Medium land	Brown	North eastern ghat zone	Ragi	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Paddy	NDLR-8	5	1	36	24	30	25	24.0	3112	2247

Interpretation of critical analysis of the result obtained

The superfine paddy variety NDLR-8 out performed the existing variety i.e., BPT 5204 which was highly susceptible to pest and disease attack, resulting in its adaptability.

FLD-3 : Cultivation of Organic Rice

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Paddy	Kharif 2006-07	5.6	4	5.6	18	-	18	Sabarpalli

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Paddy	Kharif 2006-07	15.06.06 To 18.06.06	15.09.06 To 30.09.06	Upland	Brown	North eastern ghat zone	Ragi	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Paddy	Khandagiri	18	5.6	32	19	25.5	21	21.4	2716	2110

Interpretation of critical analysis of the result obtained

Paddy variety Khandagiri grown organically in the foothills of Sabarpalli village could establish 21.4% higher grain yield over local and other improved varieties with application of dhanicha biomass and vermicompost.

FLD-4 : Integrated weed management in direct seeded kharif paddy

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Paddy	Kharif 2006-07	2.0	6.4	2.0	4	-	4	Sabarpalli

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Paddy	Kharif 2006-07	18.06.06 To 25.06.06	25.09.06 To 28.09.06	Upland	Brown	North eastern ghat zone	Ragi	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Paddy	Khandagiri	4	2	28	15	21.5	18	19.4	3100	2314

Interpretation of critical analysis of the result obtained

Application of weedicide Butachlor @ 1.5 kg a.i. per ha PE in paddy variety khandagiri plus on hand weeding at 30 DAS recorded 19.4% higher yield than two hand weeding at 20 DAS and 50 DAS.. farmers were satisfied with chemical weeding by butachlor than local practice of two hand weeding in direct seeded paddy.

FLD-5 : Nitrogen management in low land paddy

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Paddy	Kharif 2006-07	4	4	4	2	8	10	P. Antrada

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Paddy	Kharif 2006-07	22.06.06 To 26.06.06	24.11.06 To 28.11.06	Lowland	Black	North eastern ghat zone	Fallow	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Paddy	CR 1009	10	4	65	42	53.5	42	27.3	614	445

Interpretation of critical analysis of the result obtained

Lowland paddy variety CR 1009 was tested with application of urea alongwith Nimin could record 27.3% increase in grain yield over application of Urea without Nimin..

FLD-6 : Dhanicha as a green manure

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Dhanicha	Kharif 2006-07	2.0	4	2	17	-	17	Gobindpur

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Dhanicha	Kharif 2006-07	15.06.06 To 30.06.06	30.07.06 To 15.08.06	Medium land	Brown	North eastern ghat zone	Blackgram	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Dhanicha	PD-1	17	2	280	170	225	130	73	672	480

Interpretation of critical analysis of the result obtained

Dhanicha variety PD-1 recorded 73% increase in yield (biomass) 8 weeks after sowing over local variety under medium land situation. Farmers are convinced with its higher biomass yield than the local ones..

FLD-7 : Introduction of better variety of Maize

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Maize	Kharif 2006-07	6.8	5	6.8	17	-	17	Makkapada

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Maize	Kharif 2006-07	20.06.06 To 10.07.06	30.09.06 To 10.10.06	Upland	Brown	North eastern ghat zone	Blackgram	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Maize	DHM-109	17	6.8	50	40	45	30	50	6910	4929

Interpretation of critical analysis of the result obtained

Introduction of hybrid maize variety DHM-109 recorded 50% higher yield than the local maize cultivars. Farmers were highly satisfied with the yield performance of the maize variety DHM-109.

FLD-8 : Introduction of better variety of Ragi

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Ragi	Kharif 2006-07	5	5	5	24	-	24	Gobindpur

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Ragi	Kharif 2006-07	15.06.06 To 20.06.06	10.10.06 To 15.10.06	Upland	Brown	North eastern ghat zone	Blackgram	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Ragi	Bhairabi	24	5	40	30	35	25	40	2210	1845

Interpretation of critical analysis of the result obtained

Ragi variety could register 40% higher yield than the local Ragi cultivars showing the superior performance of newly introduced Ragi variety Bhairabi leading to its acceptance by farmers.

FLD-9 : Nutritional Gardening

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Okra	Kharif,2006	0.9	0.5	0.9	24	-	24	Sabarpalli
Brinjal	Kharif,2006	0.96	0.5	0.96	24	-	24	Gobindpur
Tomato	Kharif,2006	0.95	0.5	0.95	24	-	24	Lubursing
Beans	Kharif,2006	0.75	0.5	0.75	23	-	23	Gobindpur
Cauliflower	Kharif,2006	1.0	0.5	1.0	14	-	14	Sabarpalli

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Okra	Kharif,2006	28.07.06	30.09.06	Upland	Brown	North eastern ghat zone	Blackgram	-	Annexure-1
Brinjal	Kharif,2006	29.07.06	25.11.06	Upland	Brown	North eastern ghat zone	Horsegram	-	Annexure-1
Tomato	Kharif,2006	29.07.06	20.11.06	Upland	Brown	North eastern ghat zone	Blackgram	-	Annexure-1
Beans	Kharif,2006	02.07.06	30.10.06	Upland	Brown	North eastern ghat zone	Blackgram	-	Annexure-1
Cauliflower	Kharif,2006	11.07.06	15.10.06	Upland	Brown	North eastern ghat zone	Horsegram	-	Annexure-1

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Okra	BO-2	25	0.9	90	80	85	60	41.6	5700	1900
Brinjal	BB 45	25	0.96	168	125	146.5	105	39.5		
Tomato	BT 10	25	0.95	220	130	175	110	59.0		
Beans	Phulbani local	23	0.75	55	32	43.5	30	45		
Cauliflower	Badal	14	1.0	96	64	80	50	60		

Interpretation of critical analysis of the result obtained

The technology is very much comparative with the existing farming system it helps very much to provide balanced nutrition the family as they consume above 50% of the produce.

FLD-10 : Introduction of improved variety of Mango

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Mango	Kharif 2006-07	2.0	4	2	9	-	9	Lubursing & Sabarpalli

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Mango	Kharif 2006-07	18.07.06 To 25.07.06		Upland	Brown	North eastern ghat zone	Fallow	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Mango	Amrapalli	9	2	-	-	-	-	-	-	-

Interpretation of critical analysis of the result obtained

FLD-11 : Introduction of improved variety of Guava

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Guava	Kharif 2006-07	2.0	5	2	3	-	3	Lubursing

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Guava	Kharif 2006-07	20.07.06 To 28.07.06		Upland	Brown	North eastern ghat zone	Fallow	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Guava	L-49	3	2	-	-	-	-	-	470	398

Interpretation of critical analysis of the result obtained

FLD-12 : Commercial plantation of Subabul

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Subabul	Kharif 2006-07	4	5	4	4	-	4	Lubursing & Sabarpalli

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Subabul	Kharif 2006-07	13.07.06 To 16.07.06		Upland	Brown	North eastern ghat zone	Fallow	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Subabul		4	4	-	-	-	-	-		

Interpretation of critical analysis of the result obtained

FLD-13 : Community plantation of *Acacia mangium*

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Australian Teak	Kharif 2006-07	5	5	5	12	-	12	Lubursing & Sabarpalli

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Australian Teak	Kharif 2006-07	13.07.06 To 16.07.06		Upland	Brown	North eastern ghat zone	Fallow	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield (%)	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Australian Teak		12	5	-	-	-	-	-		

Interpretation of critical analysis of the result obtained

FLD-14 : Use of safety kit in Okra

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Okra	Rabi 2005-06	2	2	2	10	-	10	Gobindpur

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Okra	Rabi 2005-06	03.01.06 To 05.01.06	24.03.06 To 27.03.06	Upland	Brown	North eastern ghat zone	Cauliflower	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield%	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Okra	BO-2	10	2	58	42	50	40	25	1000	600

Interpretation of critical analysis of the result obtained

The use of safety kit by the farmers during spraying of pesticide in Okra crop could enhance the confidence level of farmers for spraying and they did not find any kind of health hazard and increased their efficiency in spraying.

FLD-15 : Use of pheromone trap in Brinjal

Crop	Season	Area (ha)	Area (Ha)		No. of farmers/Demo			Remarks
			Proposed	Actual	SC/ST	Other	Total	
Brinjal	Rabi 2005-06	2	2	2	10	-	10	Gobindpur

Farming situation and results of demonstration on other than oilseed and pulse crops:

Crop	Season	Sowing date	Harvesting date	Situation	Soil type	Agroclimatic zone	Previous crop pattern	Status of N:P:K	Rainfall distribution
Brinjal	Rabi 2005-06	03.01.06 To 05.01.06	24.03.06 To 27.03.06	Upland	Brown	North eastern ghat zone	Cauliflower	-	Annexure-I

Crop	Variety	No. of farmers	Area (ha)	Yield of demonstration (q/ha)				Increase in yield%	Cost of additional cost (Rs./ha)	
				Highest	Lowest	Average	Local check		Demo.	Local check
Brinjal	BB-44	10	2	158	122	140	110	27.7	1000	600

Interpretation of critical analysis of the result obtained

Use of pheromone trap against stem borers in Brinjal variety BB-44 during the Rabi season could exhibit 27.7% higher fruit yield in registering significant to shoot and fruit borer infestation of about 78%. Farmers found it an eco-friendly organic pest control method in Brinjal

15. ON FARM TESTING

OFT-1 : Identification of a suitable paddy variety for low land

- a Title of Experiment s : Identification of a suitable paddy variety for low land
- b Problem : The ruling variety of paddy is giving low yield due to disease and pest incidence.
- c Hypothesis : The newly released variety developed by CRRI (Pooja) may be a good substitute to the ruling variety which is resistant to pests & diseases with better grain quality.
- d Treatment : T₁ CR 1009 (Check)
T₂ Pooja
- e Plot size : 400 m² / each
- f No. of farmers / : 8
replication
- g Date of sowing : 16.06.06
- h Date of harvesting : 19.11.06
- i Results with captions :

Result :

Table : Mean yield (q/ha) & additional return (Rs./ha) of different paddy variety

	R1	R2	R3	R4	R5	R6	R7	R8	Mean Yield(q/ha)	Additional return (Rs./ha)
T1	42.0	30.5	29.6	33.0	31.0	28.6	38.5	27.6	32.6	-
T2	44.7	40.9	36.6	44.2	36.5	37.5	49.5	52.5	42.8	6089

Selling cost of Paddy @ 597/quintal

Interpretation of critical analysis of the result obtained :

Paddy variety Pooja recorded the highest grain yield of 42.8 q/ha which is 31.3 % higher than the local check variety CR-1009.

OFT-2 : Yield performance of Oyster Mushroom

- a **Title of the experiments** : Yield performance of oyster mushroom
- b **Problem** : Low yield of oyster mushroom due to infected straw
- c **Hypothesis** : Hot water dip treatment of substrate after soaking
may help in increasing the production of mushroom.
- d. **Intervention** : Treatment of straw
- e. **Treatments** : T₁ -Straw without steaming (check)
T₂ - Hot water dip treatment of straw
- f. **Plot size/beds** : 10
- g. **No. of farmers/
replication** : 5
- h. **Date of sowing** : 2.11.06 to 3.11.06
- i. **Date harvesting** : 4.12.06 to 20.12.06
- j. **Results with captions** :

Result :

Table : Mean yield of Mushroom (kg/bed) from different treatments

Treatments	R ₁	R ₂	R ₃	R ₄	R ₅	Mean yield/ bed (kg)
T ₁	0.7	1.2	0.7	0.9	0.85	0.87
T ₂	1.0	1.65	1.95	1.25	1.16	1.39

Interpretation of critical analysis of the result obtained :

Hot water dip treatment of straw gave an average yield of mushroom i.e. 1.39 kg/bed which is 59.7 % higher than the check treatment i.e. straw without steaming.

OFT-3 : Rainfed cropping system under unbunded uplands

- a Title of the experiments** : Rainfed cropping system under unbounded uplands
- b Problem** : Farmers are growing maize for cobs in unbunded uplands and leaving the land fallow.
- c Hypothesis** : As per moisture availability pattern intercrop can be possible with the maize which still increase the cropping intensity and maximize profit.
- d Treatments** : T₁ - (Arhar alone)
T₂ - (Maize + Arhar)
T₃ - (Maize alone)
- e Plot size** : 0.2 ha
- f No. of farmers/replication** : 2
- g Date of sowing** : 01.07.06 (Maize and Arhar)
- h Date of harvesting** : 25.10.06 (Maize), 29.12.06 (Arhar)
- i Results with captions** :

Result :

Table : Grain yield of maize, Arhar & maize equivalent yield as influenced by different treatment.

Treatments	Grain yield (q/ha)							% increase over sole maize yield
	Maize			Arhar			Maize equivalent yield (q/ha)	
	R ₁	R ₂	Mean	R ₁	R ₂	Mean		
T ₁ (Arhar)	-	-	-	11.8	13.2	12.5	36.4	-
T ₂ (Maize + Arhar)	23.3	21.9	22.6	7.4	7.8	7.6	44.7	19.2
T ₃ (Maize alone check)	37.8	37.2	37.5	-	-	-	37.5	-

N.B.: Price of maize is Rs 550/ql and Arhar is Rs 1600/ql

Interpretation of critical analysis of the result obtained :

The maize + Arhar (2:2) intercropping system could establish 19.2% increase in maize equivalent yield than sole maize crop.

OFT-4 : Testing of different wilt resistant varieties of brinjal

- a **Title of the experiments** : Testing of different wilt resistant varieties of Brinjal
- b **Problem** : Wilting causes heavy loss in Brinjal cultivation
- c **Hypothesis** : Cultivation of wilt resistant variety may increase the yield of Brinjal
- d **Intervention** : Introduction of wilt resistant varieties
- e **Treatments** : T₁ Farmers variety (susceptible to wilt)
T₂ BB 44
- f **Plot size** : 300 m² each
- g **No. of farmers/ replication** : 8
- h **Date of sowing** : 25.07.06
- i **Date of harvesting** : 28.11.06
- j. **Results with captions**

Result :

Table: Mean fruit yield (q/ha) and additional return (Rs./ha) from different Brinjal varieties

Treatment	R ₁	R ₂	R ₃	R ₄	R ₅	R ₆	R ₇	R ₈	Mean yield (q/ha)	Additional return (Rs./ha)
T ₁	231	145	190	183	175	172	169	199	183	-
T ₂	235	219	195	223	206	210	210	254	219	14400

Selling price of Brinjal : Rs. 300/- per quintal

Interpretation of critical analysis of the result obtained :

BB-44 recorded the highest fruit yield of 219 q/ha. this variety could establish 19.6% higher fruit yield than the farmers variety resulting greater return.

OFT-5 : Eriophyid mite control in coconut

- a Title of the experiments** : Eriophyid mite control in coconut
- b Problem** : Low yield due to infestation of eriophyid mite
- c Hypothesis** : Use of bio control agents
- d Intervention** : Spraying of neem based pesticides throughout the year reduces infestation of mite
- e Treatments** : T₁ Farmers variety (No. spraying & use of bio agents)
T₂ Neem based pesticides (Neemazal) @ 7.5 ml once during December-February, April-June and September-October
- f Plot size** : 5 plants/farmer
- g No. of farmers/replication** : 5
- h Date of sowing** : Grown up plant
- i Date of harvesting** : -
- j Results with captions** : -

Result ;

Table: Mean infestation of pest percentage in coconut

Treatment	R ₁	R ₂	R ₃	R ₄	R ₅	Mean pest infestation (in %)
T ₁	55.2	69.7	65.0	71.3	58.2	63.8
T ₂	42.5	42.9	39.2	37.6	30.5	38.5

Interpretation of critical analysis of the result obtained :

Root feeding of Neemazal water (7.5ml +7.5ml) recorded only 38.5% Eriophyid mite infestation as against 63.8% of Eriophyid mite infestation with the farmers practice.

OFT-6: Scientific method of storage of Pulse.

- a Title of the experiments** : Scientific method of storage of pulse
- b Problem** : Deterioration of pulse grain due to improper method of storing
- c Hypothesis** : Storing with EDB may reduce the damage of pulse grain during storage as well as increase the period of storage
- d Intervention** : Use of EDB reduces the damage and increases the storage
- e Treatments** : T₁ . Farmers Practice (Sundrying and storing)
T₂ . Storage of grain with one ample of EDB /q of seed for 3-4 months
- f Plot size** : Sample size will be 10 kg/ treatments to be stored in earthen pot
- g No. of farmers/ replication** : 5
- h Date of sowing** : NA
- i Date of harvesting** : NA
- j Results with captions** : –

Results:**Table: Mean infestation of pest percentage in stored pulse**

Treatment	R ₁	R ₂	R ₃	R ₄	R ₅	Mean pest infestation (in %)
T ₁	93	73	86	61	48	72.2
T ₂	11	9	16	19	12	13.4

Interpretation and critical analysis of the results obtained :

Storage of grain with one ample of EDB/q of seed for 3-4 months recorded the lowest mean loss of pulse grains i.e. only 13.4 % on storage. However, the farmer's practice registered the highest mean loss of grains (72.2 %) by pests on storage.

16. Literature developed / Published (give details)

a. Research paper

1. H.K. Patro and Associates :- Integrated nutrient management in Rice – Wheat cropping system. (*Indian Journal of Agronomy*)
2. R.K. Tarai & S.N. Ghosh :- Integrated nutrient management in sweet orange in rainfed laterite soils. (*Orissa journal of Horticulture*)
3. H.K. Patro and Associates :- Soil microbial biomass, N as influenced by INM in rice. (*Orissa Bigyan Congress*)
4. R.K. Tarai & S.N. Ghosh :- Effect of fertilizer on yield quality and foliar NPK content of pineapple. (*Orissa Journal of Horticulture*).
5. H.K. Patro & Associates :- Total productivity and NPK removal under rice-wheat cropping system. (*Pantnagar Journal of Agricultural Research*)

b. Technical bulletins

1. Improved cultivation of Blackgram – H.K. Patro, D.J. Bage and T.L. Mohanty
2. Improved package and practices of sesamum cultivation – H.K. Patro, D. Panda and T.L. Mohanty

c. Popular articles

1. Protect your food from attack of rodents – D. Panda
2. Improved package and practices of Cauliflower and Cabbage – M. R. Pattanaik
3. Improved cultivation of sweet orange – H.K. Patro and R.K. Tarai

d. Extension Literature

1. Improved blackgram cultivation – H.K. Patro, D.J. Bage and D. Panda
2. Improved Sesamum Cultivation – H.K. Patro, D. Panda and T.L. Mohanty
3. Organic Manures – H.K. Patro and D. Panda
4. Honeybee cultivation – A Profitable venture – D. Panda

17. Success Story/Case Study, if any,

Newly established K.V.K

18. Constraints

a. Administrative

- Administrative building, staff quarter, farmers hostel, stores, training hall, demonstration unit should be constructed for smooth functioning of K.V.K.

b. Technical

- The computer, TV, VCD LCD, OHP & Digital video camera should be constructed for smooth functioning of K.V.K.

c. Financial

- Additional funds may be sanctioned for repairing of farm roads, godowns barbed wire fencing, and installation of Demonstration unit.

19. Functional Linkage with different organization

Sl. No.	Name of Organization	Nature of linkage
1	State Dep't. (Agriculture/Horticulture/Soil Conservation/Forestry/Pisciculture/Animal Husbandry)	<ul style="list-style-type: none"> - Sponsored training programmes - Training of Extension Functionaries - Farmer scientists interaction - Input procurement
2	Regional Plant Resource Centre, Bhubaneswar	<ul style="list-style-type: none"> - Input Procurement
3	CIFA, Bhubaneswar	<ul style="list-style-type: none"> - HRD - Input Procurement
4	CRRI, Cuttack	<ul style="list-style-type: none"> - Paddy Seeds Procurement - Collection of Information
5	DRDA, Gajapati	<ul style="list-style-type: none"> - Information source - Member (SAC)
6	ITDA, Gajapati	<ul style="list-style-type: none"> - Information source - Trainings - Collaborative awareness
7	AIR, Berhampur	<ul style="list-style-type: none"> - Recording Programme - Member (SAC)
8	NABARD	<ul style="list-style-type: none"> - Collaborative awareness
9	Local NGOs namely SWSS, PREM-PLAN, JKP, ISARA	<ul style="list-style-type: none"> - HRD for NGO functionaries - Input supply - Knowledge up gradation
10	News paper media	<ul style="list-style-type: none"> - Publication work
11	Asst. Seed Certification Office	<ul style="list-style-type: none"> - Input supply , certification
12	Asst. Seed Production Office	<ul style="list-style-type: none"> - Input supply & procurement

20. Performance of demonstration units (other than crops) :Not yet developed

Sl. No.	Demonstration Unit	Total Production	Gross income (Rs.)	Net income (Rs.)

Proposal for propagation unit and farming system has been submitted for approval

21. Performance of instructional farm (crops including seed production/planting materials production).- Only seedling production has been done

Sl. No.	Crop/Unit	Variety	Area (ha)/No.	Date of sowing	Date of harvesting	Yield (Please specify the unit of yield)/No.s	Cost of inputs (Rs.)	Gross income (Rs.)	Remarks
1	Mango	Alphonso, Dusheri	-	-	-	10395	1.50,000	2,40,000	
2	Litchi	Bombai, Muzzafarpur	-	-	-	2000			
3	Guava	L-49, Allahabad Safeda	-	-	-	1000			
4	Forest crops	Teak, <i>Acacia mangium</i> , subabul	-	-	-	3000			
5	Vegetable seedlings	a. Cabbage b. Cauliflower c. Tomato d. Brinjal e. Chili	-	-	-	79000			

-

22. Utilization of hostel facilities :

Year	Month	Occupancy		
		No. of bed available	No. of bed occupied	Type of the programme

23. Indicate any innovative technology or any innovative methodology / transfer of technology developed during the year.

- Low cost vermicompost preparation from farm and household waste.
- Mushroom cultivation under existing household situation

24. Indicate indigenous technology practiced by the farmers in the K.V.K operational area which can be considered for technology development

(in details with suitable photographs)

Survey compilation in progress

25. Indicate the specific training need tools / methodology followed for

- Identification of courses for farmers / farm women - On the basis of PRA
- Rural Youth - On the basis of PRA
- In-service personnel- On the basis of Job analysis and training need assessment

26. Any other special programme undertaken by the K.V.K which has been financed by state Govt./Other Agencies : Not applicable.

27. Seed/Seedling/Sapling and sold to the farmers

Crop	Variety	Seed Production (in Quintals) (grain crops)	Seedling Production (in No.) (Vegetable crops)	Sapling Production (in No.) (fruit trees, forest and other)
Mango	Dussheri, Alphonso	-	-	395
Litchi	Bombai, Muzzafarpur	-	-	600
Guava	L-49, Allahabad Safeda	-	-	400
Vegetables	-		79,000	-

28. Scientific Advisory Meetings (SAC) : Please indicate the date()

SI No	Date of SAC	Salient recommendations	Action taken	Remarks
				To be conducted shortly in February 2007

29. Impact of training programmes carried during last three years in the K.V.K adopted villages – : K.V.K Gajapati only established during 2005-06

SI No.	Name of the specific technical skill transferred	No. of trainees	% of adoption	Change in income (in Rs.)	
				Before	After

30. Field activities

- i) No. of villages adopted : 5
- ii) No. of farm families selected : 265
- iii) No. of Survey/PRA Conducted : 5

31. Other Extension Activities:

Activity	Date	No. of beneficiaries (Farmers/ Rural Youth)			No. of Extension functionaries		
		Male	Female	Total	Male	Female	Total
Field days							
1. Field day on Maize	22.06.2006	32	8	40	1	-	1
2. Field day on mushroom	11-12-06	3	27	30	-	1	1
3. Field day on Apiculture	22-12-06	28	12	40	2	-	2
Kisan Mela							
1. Kisan mela	23-10-2006	76	21	97	2	-	2
2. Krushak Sampark mela	13 Nos.	207	44	251	8	-	8
Film show							
1. Film show on Apiculture	11-12-2006	55	20	75	7	-	7
2. Film show on Vermicomposting	13-12-2006	60	19	79	6	-	6
3. Film show on organic farming	10-10-2006	79	30	109	3	-	3
Radio Talk							
-	-	-	-	-	-	-	-
TV Show (Give topic)							
1. Summer ploughing, irrigation management in summer Blackgram	07-02-2006	-	-	-	-	-	-
2. Irrigation management in Sesamum	06-03-2006	-	-	-	-	-	-
3. Terrace cultivation, Weed management in fruit orchard	07-03-2006	-	-	-	-	-	-

Activity	Date	No. of beneficiaries (Farmers/ Rural Youth)			No. of Extension functionaries		
		Male	Female	Total	Male	Female	Total
Newspaper coverage (Give topic)							
1. Apiculture	15-02-2006						
2. Organic fertilizers	29-11-2006 & 06-12-2006						
3. Maize cultivation	27-01-2006 & 31-01-2006						
Any Other							
1. VCD Show on maize cultivation	26-06-2006	112	13	125	-	-	-
2. VCD show on Rice cultivation	01-07-2006	123	14	137	-	-	-
3. TV talks on i) Wilt management of Capsicum ii) Thrips management of Capsicum iii) YMV in Papaya iv) Pink borer in Ragi v) Leaf eating caterpillar of Brinjal	06-03-2006 & 07-03-2006	-	-	-	-	-	-

32. Utilization of K.V.K funds during the year 2006

Item	Sanctioned	Released	Expenditure
Pay and Allowance	8,00,000	8,00,000	11,68,714
Recurring contingencies	3,25,000	1,60,000	1,60,000
Non-recurring contingencies	10,000	-	-
Total	11,35,000	9,60,000	13,28,714

33. Utilization of funds under FLD on Oilseed/Pulse

BSE Contribution of funds under FES on Oilseed & Pulse								
Sl No	Item	Sanctioned by ZC		Released by Institute		Expenditure upto 31.12.06		Unspent balance as on 31.12.06
		Kharif	Rabi	Kharif	Rabi	Kharif	Rabi	
A. Oilseed								
1.	Critical Inputs	8750	8750	-	-	8750	-	-
2.	Extension activities	1250	1250	-	-	1200	-	50
3.	TA/DA/POL	1250	1250	-	-	-	-	1250
Total		11,250	11,250	-	-	9950	-	1300
B. Pulse								
1.	Critical Inputs	9187.5	9187.5	-	-	9100	-	87.5
2.	Extension activities	1312.5	1312.5	-	-	1300	-	12.5
3.	TA/DA/POL	1965	1965	-	-	-	-	1965
Total		12,465	12,465	-	-	10,400	-	2065

34. Status of Revolving Fund (in lakhs) for 3 years

Year	Total Sanctioned	Opening Balance	Expected Income		Net Balance in hand as 31.12.06
			Fixed Deposit	Farm Income	
2005-06	1,00,000	-	34,700	9935	Stock available
2006-07	-	44,635	24,601	-	Stock of 2,30,387

35. Please indicate information which has not been reflected above (write in detail)

Sd/-
Programme Coordinator
Krishi Vigyan Kendra (Gajapati)
R. Udayagiri – 761 016

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Meteorological data (From January 2006 to December 2006)

Met week	Month	Meteorological Week	Rainfall (mm)	No. of rainy Days	Temperature (in °C)	
					Maximum	Minimum
1	January	4 th Jan – 10 th Jan	0.0	0	18	14
2		11 th Jan – 17 th Jan	0.0	0	20	15
3		18 th Jan – 24 th Jan	0.0	0	19	16
4		25 th Jan – 31 st Jan	0.0	0	22	17
5	February	1 st Feb – 7 th Feb	0.0	0	24	18
6		8 th Feb – 14 th Feb	0.0	0	28	22
7		15 th Feb – 21 st Feb	0.0	0	27	19
8		22 nd Feb – 28 th Feb	0.0	0	26	16
9	March	1 st March – 7 th March	6.0	1	24	20
10		8 th March – 14 th March	0.0	0	20	15
11		15 th March – 21 st March	0.0	0	24	19
12		22 nd March – 28 th March	9.0	2	27	20
13	April	29 th March – 4 th April	0.0	0	29	22
14		5 th April – 11 th April	0.0	0	31	22
15		12 th April – 18 th April	0.0	0	33	23
16		19 th April – 25 th April	0.0	0	35	25
17	May	26 th April – 2 nd May	0.0	0	31	26
18		3 rd May – 9 th May	4.0	1	28	23
19		10 th May – 16 th May	0.0	0	35	26
20		17 th May – 23 rd May	0.0	0	36	25
21		24 th May – 30 th May	2.0	1	38	25
22	June	31 st May – 6 th June	22.2	2	38	22
23		7 th June – 13 th June	5.0	2	40	23
24		14 th June – 20 th June	25.0	2	36	25
25		21 st June – 27 th June	66.0	6	28	26
26	July	28 th June – 4 th July	438.0	7	22	18
27		5 th July – 11 th July	02.0	2	28	22
28		12 th July – 18 th July	07.0	3	29	21
29		19 th July – 25 th July	13.0	3	30	23
30	August	26 th July – 1 st August	139.0	6	22	19
31		2 nd August – 8 th August	348.0	4	22	18
32		9 th August – 15 August	27.0	4	25	21
33		16 th August – 22 nd August	74.0	5	26	22
34		23 rd August – 29 th August	76.0	7	27	21
35	September	30 th August – 5 th September	72.0	3	26	20
36		6 th September – 12 th September	56.0	3	25	21
37		13 th September – 19 th September	92.0	7	27	22
38		20 th September – 26 th September	61.0	6	29	21
39	October	27 th September – 3 rd October	96.0	3	26	20
40		4 th October – 10 th October	0.0	0	28	18
41		11 th October – 17 th October	29.0	2	26	19
42		18 th October – 24 th October	18.0	1	27	20
43		25 th October – 31 st October	120.0	3	23	18
44	November	1 st November – 7 th November	62.0	2	21	17
45		8 th November – 14 th November	49.0	1	22	16
46		15 th November – 21 st November	28.0	1	27	17
47		22 nd November – 28 th November	0.0	0	26	16
48	December	29 th November – 5 th December	0.0	0	25	12
49		6 th December – 12 th December	0.0	0	21	10
50		13 th December – 19 th December	0.0	0	20	6
51		20 th December – 26 th December	0.0	0	18	8
52	January	27 th December – 2 nd Jan	0.0	0	20	13

