ANNUAL REPORT (April, 2008 to March, 2009)

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				
Mayurbhanj	At/Po – Shamakhunta, Mayurbhanj	06792	211555	211555	kvkmayurbhanj@redifmail			
	Orissa, Pin – 757 049							

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

Host Institute	Postal Address with Pin code		Telephon	ie	E mail
name		STD	Office	FAX	
OUAT	At/Po – Bhubaneswar – 751 003	0674	2392677	2397780	vc@ouat.nic.in

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

Name	Telephone / Contact				
	Residence	Mobile	Email		
Dr. Sangram Keshari Swain	-	94372 -06151	<u>swainsangram@yahoo.co.in</u>		

1.4. Year of sanction: 2005

1.5. Staff Position (as on 31st March 2009)

SI. 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	Dr. S.K. Swain	P.C.	Agriculture.	10,000-15,500-	7.1.2006	Permanent	Gen.
2	Subject Matter Specialist		SMS	Animal Science	13,300/-	Vaca	ant	
3	Subject Matter Specialist	J. Patra	SMS	Extension	8000-13500- 12775/-	18-07-05	Temporary	OBC
4	Subject Matter Specialist	Mrs M. Bhol	SMS	Home Science	8000-13500- 12413/-	02-01-06	Temporary	OBC
5	Subject Matter Specialist	Mrs S. Pattnaik	SMS	Horticulture	8000-13500- 12413/-	10-01-06	Temporary	Gen.
6	Subject Matter Specialist	Mrs A. Sasmal	SMS	Plant Protection	8000-13500- 12775/-	10-01-06	Temporary	Gen.
7	Subject Matter Specialist	Mr. T. R. Mohanty	SMS	Plant Protection	8000-13500- 8550/-	01.07.08	Temporary	Gen.
8	Programme Assistant	Sj. Dillip Ranjan Sarangi	Prog. Asst (Agril)	Agril (Soil Sc.)	5500-9000 8513/-	20-01-06	Temporary	Gen.
9	Computer Programmer	Sj. Sanjay Kumar Barik	Prog. Asst (Computer)	Computer	5500-9000 8850/-	23-06-07	Temporary	Gen.
10	Farm Manager	Sj. Kishore chandra Sahoo	Farm Manager	Agronomy	5500-9000 8513/-	3-08-06	Temporary	OBC
11	Accountant / Superintendent	Vacant						
12	Stenographer	Sj. R.N .Pati	Steno		4000-6000 6000/-	16-10-06	Temporary	Gen
13	Driver	Pradeepta Kumar Biswal	Driver		3050-4590 4075/-	25-07-07	Temporary	Gen
14	Driver	B. K. Behera	Driver		3050/- (Conso.)	18.07.08	Temporary	Gen
15	Supporting staff	Dinabandhu Swain	Attendant		2550-3200 4823/-	20.12.07	Temporary	OBC
16	Supporting staff	Harihar Pradhan	Attendant		2550-3200 4823/-	22.12.07	Temporary	OBC

1.0.	Total land with KVK (in na): 27.94na	
S. No.	Item	Area (ha)
1	Under Buildings	0.44
2.	Under Demonstration Units	1.0
3.	Under Crops	20.0
4.	Orchard/Agro-forestry	-
5.	Others (Ponds)	4.0
6.	Seed Storage	0.3

Total land with K\/K (in ha): 27 04ha 1 6

1.7. Infrastructural Development: A) Buildings

		Source of	arce of Stage					
s		funding	Complete			Incomplete		
No.	Name of building		Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.mt)	Status of construction
1.	Admin. Building	ICAR	Dec.2007	754	4200004			
2.	Farmers Hostel	ICAR	Dec.2007	304.7	2515918			
3.	Staff Quarters (3)		Received from State Govt. (Agril. Department)					
								Renovation
4.	Demo. Units (1)	DRDA	24.09.07	92.9	420000			
	Poultry Brooding	,Baripada						
5	Fencing	ICAR				Jan. 08	350	Under
	(compound wall)						mts	progress
6	Rain Water	-						
	harvesting system							
7	Threshing floor	ICAR	28.08.07	44.6	170000			
8	Farm godown (1)			Recei	ved from State	e Govt.		

B) Vehicles

Type of vehicle	Year of pur	chase	Cost (Rs.)	Total kms. Ru	ın	Present status
Tata Sumo	2005		5.40.000			Good
Tractor	2006		3.41658			Good
C) Equipments & AV aids						
Name of the equipment		Year	• of purchase	Cost (Rs.)		Present status
Desktop PCI		2009		29700	Go	od
Flatbed Scanner		2009		5200	Go	od
Colour laser printer		2009		19932	Go	od
Line interactive UPS		2009		1500	Go	od
Beds -20 nos.		2009		54000	Go	od
Dining table- 4 nos		2009		15200	Go	od
Moulded chairs with arm- 50 no	s.	2009		19500	Go	od
Mattresses -20 nos		2009		38400	Go	od
Pillow-20 nos		2009		4400	Go	od
Steel alna- 6 nos		2009		10200	Go	od
Steel table (small)- 6 nos		2009		7500	Go	od
Bed sheet- 40 nos		2009		7200	Go	od
Mosquito net- 20nos.		2009		7000	Go	od
Blanket- 20 nos		2009		9000	Go	od
Steel rack- 4 nos		2009		12400	Go	od
Table with drawer-9 nos		2009		93953	Go	od
Table without drawer-7 nos		2009		40233	Go	od
Chair (S-Type)-19 nos		2009		34881	Go	od
Steel Almirah-(Big)-2 nos		2009		28284	Go	od
Steel Almirah-minor-8 nos		2009		83185	Go	od
Multipurpose long table- 3 nos		2009		23460	Go	od

File cabinet-3 nos	2009	31426	Good
Book case-4 nos	2009	41706	Good
Computer table-2 nos	2009	14973	Good
Sofa	2009	13672	Good
Computer chair	2009	3288	Good
Water purifier	2009	7199	Good
Vacuum Cleaner	2009	9999	Good
T.V & DVD	2007	13600	Good
0.5 KV Voltage stabilizer	2007	1000	Good
Display Board (2 nos)	2006	5000	Good
White Board(2 nos)	2006	2978+4980	Good
Grooving Type Display Board	2007	4780	Good
Camera	2007	9980	Good
Paddle winnower	2006	2415	Good
Paddy thresher	2006	3275	Good
Power sprayer	2007	5434	Good
Rotavator	2006	64335	Good
Cono weeder	2006	1204	Good
Water purifier	2008	7190	Good
Cycle	2008	2365	Good
Gas stove	2008	4395	Good
Utensils	2008	4500	Good
Cage	2008	4200	Good
Horticultural tools	2008	4909	Good
Display Board	2008	3637	Good
Acrylic Notice Board	2008	4750	Good
Pre germinated paddy Drum seeder	2008	2520	Good
Wheel finger weeder	2008	800	Good
Cono weeder	2008	1204	Good

1.8. A). Details SAC meeting conducted in the year (2008-09):

SI. No.	Date	No. of Partici	Salient Recommendations	Action taken
1	2.4			
1.	24.	17	Involvement the SHG for their	Vocational training and FLD on Mushroom
	10.		empowerment in different activities like	Cultivation, Bee Keeping, Agarbati Making,
	07		vocation training, FLD, exposure visit etc.	Value addition of fruit & Vegetable products,
			by deciding their potentials in enterprises	nutritional garden, preparation of household of
			like agriculture, vegetable cultivation,	decorative, backyard poultry in adopted
			pisciculture, poultry, goatery, value	villages like Baunsabilla, Satapoutia, Khandia
			addition, homestead management, honey	involving women SHG groups. Steps are
			bee rearing etc.	initiated to form Farmers Club including male
				farmers for better vocational activities.
2]		Developing linkages with NABARD,	Linkages are developed with NABARD for
			IFFCO and other input agencies having	technological support to the farmers clubs &
			their own extension system for	NGOs under its financial assistance like
			collaborative support in implementing	CIDR, DULAL and its adopted village in
			vocation trainings in different field and	Kuliana block. For formation of farmers
			other extension activities.	club, linkage was established with NABARD.
				Linkages are developed with Srusthi (NGO)
				for development of Model Watershed with the
				financial assistance from ICRISAT.

3		Convergence of different line departments	Different training programmes were conducted
		for implementation of programmes.	for capacity building & rapport making
			involving multidisciplinary departments.
			Training programme, FLD, OFT & Other
			extension activities were conducted jointly
			with ATMA and other line departments
4		Training and exposure visit for extension	Many of the Extension Officials including
		functionaries of agriculture department on	Joint Director (Agriculture) from Agriculture
		SRI cultivation in the KVK campus.	Directorate visited the SRI demonstration plot.
			Training programme was also conducted.
5		For pure line selection of Ratila mung (a	It was communicated to the Pulse Research
		local variety performing well in cold	Station, situated at Ratanpur, Ganjam under
		climate of Mayurbhanj situation) and crop	OUAT.
		management practices for acidic soil as	
		82% soils of Mayurbhanj are acidic. It was	
		communicated to the Pulse Research	
		Station, situated at Ratanpur, Ganjam	
		under OUAT.	
6		More emphasis on remunerative crops like	Full package demonstration on groundnut
		sunflower cultivation, groundnut	cultivation was conducted in Shamakhunta,
		cultivation (Seed production on Smruti	Suliapada, Barasahi Block. The produce of
		variety) etc. Full package demonstration on	the demonstration plots at Suliapada in Kharif
		groundnut cultivation was conducted in	season was used as the seed purpose.
		Shamakhunta, Suliapada, Barasahi Block.	1 1
		The produce of the demonstration plots at	
		Sulianada in Kharif season was used as the	
		seed purpose.	
7		Rainy season raddish and off-season	Yet to take up
		vegetable cultivation to be promoted in 12	1
		blocks of high altitude areas.	
8	1 1	Technological interventions in ITDA	Technological support was imparted to
		schools to promote agriculture and allied	Chandua Govt. High Scholl (Kuliana Block)
		sectors for self-employment of tribal youth	which is one of the largest ITDA school of
		and school drop outs.	Mayurbhanj district for vegetable nurserv
		· ·	raising, Green House preparation & Vegetable
			Cultivation.

2. SAC meeting conducted on 05.03.2009 -Members present-17 nos

Salient Recommendation / Suggestions

- 1) Encouragement of tribal people to take up the poultry farming as entrepreneurship basis.
- 2) Implementation SRI technology in Seed Village Programme.
- 3) More programme on dry land agriculture and rain water harvesting. There should be on farm testing for increase in production of Sabai cultivation.
- 4) Extensive demonstrations on agricultural implements like Rotavator, paddy reaper, paddy transplanter, power thresher, zero till drill etc. and exposure visit of farmers to show the performance of farm implements should be carried out.
- 5) Various programmes should be conducted in collaboration with the farmers club and SHGs.
- 6) To give a proposal to AIR, Baripada to allot a regular programme for the farmers of Mayurbhanj district on behalf of KVK, Mayurbhanj.
- 7) To send proposal for setting up Mushroom Spawn Units, Bio-Technology Research Laboratory, from external funding like RKVY, P.D, DRDA or NABARD.
- * Action on the recommendations is yet to take up in coming financial year

2. DETAILS OF DISTRICT (2008-09)

S. No	Farming system/enterprise
1.	Paddy
2.	Paddy + Groundnut
3.	Paddy + Groundnut +Vegetable
4.	Animal Husbandry
5.	Paddy + Mung
6.	Arhar
7.	Paddy + Vegetable + Mung
8.	Paddy + Pisciculture
9.	Agril+ Animal Husbandry
10.	Vegetable + Animal Husbandry
11.	Paddy + Vegetable
12.	Paddy + Mung + Vegetable

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

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

S. No	Agro-climatic Zone	Characteristics			
1	North Central Plateau	Climate	: Hot an	d humid	
		Rainfall	: 1554m	ım annua	ally
		Mean max. Summer to	emp	:	36.6 0C
		Mean Winter temperat	ture	:	11.1 0C
		Soil groups	:	Laterit	ic, Red & and Yellow, Mixed red
		and Black			

Agro ecological situations

S. No	Agro	Characteristics		
	ecological			
	, , , , ,			
	situation			
1.	AES – I	Low Rainfall, Low Elevation		
		Blocks (Five) : Tiring, Rirangpur, Rasgovindpur, Bahalda, Shuliapada		
2.	AES – II	Low Elevation, Medium Rainfall		
		Blocks (Fifteen): Baripada, Badasahi, Shamakhunta, Khunta, GB Nagar, Betonati,		
		Moroda, Kuliana, Bangiriposi, Udala, Saraskana, Kusumi, Bishoi, Bijatota, Jamuda		
3.	AES – III	Low Elevation, High Rainfall		
		Blocks (One): Kaptipada		
4.	AES – IV	Medium Elevation, Medium Rainfall		
		Blocks (Five): Karanjia, Sukruli, Jashipur, Raruan, Thakurmunda		

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Mixed Red & Yellow	• 82% soils are acidic.	100%
		• Low in N and P	
		• Rich in K	
		• Deficient in B and Mo.	
		• 16% to 18% soils are neutral in reaction	

S.	Сгор	Area (ha)	Productivity (Q/ha)
No			
KHA	ARIF-2008		
1	Paddy	305012	24.59
2	Maize	13462	11.06
3	Small millet	733	3.77
4	Arhar	3381	8.87
5	Mung	3861	4.7
6	Biri	11521	4.02
7	Cowpea	4589	7.27
8	Kulthi	3210	3.86
9	Groundnut	1545	9.56
10	Til	2161	3.0
11	Niger	6276	8.49
12	Mesta	3467	7.21
13	Sunhemp	386	7.0
14	Sweet patato	1927	91.37
15	Other vegetables	44389	95.13
16	Chilli	4997	11.18
17	Turmeric	3581	17.89
18	Ginger	3356	17.28
	RI-2008-2009	5040	07.70
1		5816	27.78
2	Vvheat	1508	16.59
3	Mung	4383	4.75
4	Biri	3137	5.10
5	Kulthi	/9//	3.35
6	Gram	5345	7.91
/	Cowpea	1181	(.9/
8	Lentil	3476	4.0
9	Groundnut	5501	12.5
10	Mustard	4468	3.84
11	Linseed	12887	4.28
12	Niger	18	3.350
13	Potato	103	88.0
14.	Onion	2073	78.20
15	Total vegetables	19223	94.38
16	Chilli	2972	10.75
17	Coriander	2009	5.10
18	Garlic	1141	25.30
19.	Sugar cane	80	702.75

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

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)	
		Maximum	Minimum	I –Hrs	II-Hrs
April,2008	29.5	42.0	18.0	85	50
May	79.2	41.4	21.2	84	48
June	776.6	37.8	22.1	83	73
July	499.8	34.8	21.7	92	76
August	304.2	32.9	24.1	88	70
September	267.0	33.2	20.1	83	71
October	70.0	33.2	16.9	81	69
November	20.6	33.2	11.1	85	65
December	0	29.7	9.1	85	57
January, 2009	0	32.8	10.2	87	58
February	0	37.1	14.9	86	55
March	3.2	39.0	18.7	72	4

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

Category	Population	Production	Productivity
Cattle	•		
Crossbred	47703		
Indigenous	888446	Milk- 28150 MT	
Buffalo	26260		
Sheep(Indigenous)	166636		
Goats	686785	Meat -3.29 TMT	
Pigs			
Crossbred	4447		
Indigenous	80902		
Poultry			
Hens			
Desi	2072478		
Improved	598817	Egg793.72Million	
Ducks	113634		
Fish			
Marine	-	-	
Inland	-	9501.84 MT	1.2 q/ac

2.6 Details of Operational area / Villages (2008-09)

Sl.No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Baripada sadar	Shama k- hunta	Balidiha	Rice, Groundnut, Arhar, Mung, Biri, Tomato Vegetables, Maize, Mango, Poultry, Goatery, Dairy, Fishery	 Weed problem in rice & groundnut. Water problem in upland rice. Water stagnation and iron toxicity in lowland. Pest and disease problems in Kharif rice. Low return from milch animal. Unscientific management of poultry and goatery. Low production of fishery. 	 Seed production programme in paddy Scented rice cultivation. Hybrid vegetable cultivation. Improved livestock management Integrated fish farming. Mushroom cultivation. Vermi composting
2.	Baripada Sadar	Shama khunta	Baunsabi Ila	Paddy, Mung, Bamboo, Arhar, Okra, Poultry, Buffalo, Goatery, Sheep & Deshi Cow, Fishery	 Weed problem in rice, Pest & disease problem in rice. Low yield of Mung and Arhar. Low output of live stock. Low return from pisciculture. 	 Off-season vegetable cultivation. Backyard rearing of poultry. Commercial pisciculture. Goatery. Fruit orchard. Mushroom cultivation
3	Baripada Sadar	Shama khunta	Khandia	Paddy, Groundnut, Sabai, Backyard Vegetable, Bamboo, Mung, Mango, Banana, Dairy, Poultry, Goatery, Sheep, Fishery	 Weed and plant protection problem in rice. Low yield of vegetable. Low return from fruit crops. Imbalanced fertilizers application in groundnut. Low milk return from dairy Worm problem in Goatery. Ranikhet disease in poultry. 	 Bee Keeping Backyard Poultry Commercial Goatery Value Addition Of Bamboo And Sabai Vermin Composting Orchard Plantation.

4.	Baripada Sadar	Shama khunta	Satpouti a	Rice, Mung, Arhar, Vegetable, Mango, Bamboo, Coconut, Jack Fruit, Poultry, Goatery, Dairy And Orchard Plants	 Faulty land use management in uplands. Low return from live stocks. Water stagnation and flood in lowland rice. Low yield of rice due to improper management. Imbalance fertilizer application in vegetables. Wild growing of orchard plant. 	 Nutritional garden Backyard poultry cultivation Mushroom cultivation Hybrid vegetable cultivation Orchard plantation Value addition of fruit and vegetable.
	Baripada Sadar	Shama khunta	Sindurgo ura	Rice, Moong, Tomato, Sabai, Bamboo, Drumstick, Lemon, Papaya, Guava, Goatery, Sheep, Poultry, Buffalo, Duckery, Fishery	 Weed problem in upland rice. Pest and disease in medium land rice. Low yield of mung due to traditional practice, Wilt problem in tomato causing low yield. Worm problem in goatery. Low milk production of buffalo. Ranikhet disease in poultry. Low yield of desi duck. Low production of vegetables. 	 Commercial pisciculture. Hybrid vegetable cultivation. Goat and sheep rearing. Orchard plantation of lemon, Guava and papaya. Commercial flori culture. Bee keeping.

2.7 Priority thrust areas

S. No	Thrust area
1.	Scented rice cultivation
2.	Back yard poultry cultivation
3.	Commercial pisiculture
4.	Mushroom cultivation
5.	Vermi-composting
6.	Off season & hybrid vegetable cultivation
7.	Goatery
8.	Fruit orchards
9.	Commercial floriculture
10.	Bee keeping
11.	Value addition of fruits & vegetables
12.	Nutritional garden.
13.	Seed production programme in paddy & vegetables.

1.	Title of on-farm trials	Assessment of IPM in Pumpkin
2.	Problem diagnose	Low yield of pumpkin due to Fruit Damage by pest
		attack
3.	Details of technologies selected for	- Poison baiting with 0.1 % insecticide (Malathion)
	assessment/refinement	and 10% jaggery in water
		- Need based spraying of chemicals (Malathion)
4.	Source of technology	IIHR, 2006
5.	Production system	Small production system
6.	Thematic area	Integrated Pest management
7.	Micro –farming Situation	Rainfed Medium land
8.	Performance of the Technology with performance	* Percentage of damaged fruits (%)
	indicators	* Yield
9.	Final recommendation for micro level situation	Adoption of IPM practice
10	Constraints identified and feedback for research	Rain damages the baiting
		• May be injurious for other domestic animals
11	Process of farmers participation and their reaction	Interested to adopt the new technology

3.1. B. Details of each On Farm Trial to be furnished in the following format OFT-1

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Pumpkin	Rainfed Medium land	Fruit damage due to pest attack	Assessment of IPM in Pumpkin	5	Poison baiting with 0.1% insecticide (Malathion) and 10% jaggery in water	% of damaged fruits due to pest Yield (q/ha) No. of insects/bait/week

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
% of fruit damageFarmer's practice -T1- 20 %Technology Assessed - T2- 05%Farmer's practice -T1- 165Technology Assessed - T2- 182	Fruit damage in pumpkin due to pest attack (Fruit fly) by the IPM technology	 Interested to adopt the new technology Satisfied with the performance 		
Farmer's practice -T ₁ - nil Technology Assessed - T ₂ - 4				

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice (Local)-T ₁	165q/ha	Rs.24,500 / ha.	1.96
Technology Assessed –T ₂	182 q/ha	Rs.30,600 /ha.	2.25

1.	Title of on-farm trials	Assessment of IDM for wilt in tomato
2.	Problem diagnose	- Plant mortality due to wilt
3.	Details of technologies selected for	- Seed treatment with Carbendaium & Streptomil
	assessment/refinement	
4.	Source of technology	OUAT
5.	Production system	Small production system
6	Thematic area	IDM
7.	Micro –farming Situation	Rainfed Medium land
8.	Performance of the Technology with performance	- % of wilt
	indicators	- Yield
9.	Final recommendation for micro level situation	Adoption of seed treatment seedling treatment and
		need based application of chemicals.
10.	Constraints identified and feedback for research	Not identified
11.	Process of farmers participation and their reaction	Positive response and receptive mood of participants

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	Rainfed Medium	Plant mortality	Assessment of IDM for wilt	5	* Seed treatment with	% of mortality due to wilt
	land	due to wilt	in tomato		* Carbendiyam & Streptomil * Need based application of Cu-oxychloride & Streptomil	Yield

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
- <u>%age of mortality due to wilt</u> Farmer's practice -T ₁ -25% Technology Assessed -T ₂ -3% Farmer's practice -T ₁ -170q/ha Technology Assessed -T ₂ -200 q/ha	Wilt problem managed by adopting the seed treatment, seedling treatment and need based application of chemicals	- Farmers become satisfied with the result of the trial		

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice (local) -T ₁	170 q/ha	Rs.47,000 / ha.	1.85
Technology Assessed - T_2	200 q/ha	Rs.70,000 /ha.	2.4

1.	Title of on-farm trials	Assessment of Suitable lemon variety (Kuliana Lime)
2.	Problem diagnose	Low yield and disease pest incidence is more in local
		traditional variety
3.	Details of technologies selected for	Variety of Kuliana lime with recommended full package of
	assessment/refinement	practices
4.	Source of technology	
5.	Production system	Small production system
6.	Thematic area	Orchard plantation system
7.	Micro –farming Situation	Upland rain fed
8.	Performance of the Technology with performance	Yield
	indicators	Disease & pest incidences
9.	Final recommendation for micro level situation	Results awaited
10.	Constraints identified and feedback for research	Results awaited
11.	Process of farmers participation and their reaction	For testing of the technology on the Varietal substitution,
		lemon is decided in collaboration with the farmers.
		Separating the plots in two parts i.e. one for local check nd
		other for testing plots makes the design.

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Lemon	Upland rainfed	Low yield diseases and	Assessment of suitable Lemon	5	Kuliana lime	Yield
		pest incidence	Variety (Kuliana Lime)			Diseases and pest incidences.

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Yield - Results awaited	In progress	Plant canopy is good. Disease and	-	-
Diseases and pest incidences. Farmers' practice T ₁ -20 %affected due to citrus die back, canker Technology assessed T ₂ _No citrus die back, canker		pest not yet affected		

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice** (Local variety)	-	-	-
Technology assessed** (Kuliana Lime)	-	-	-
Technology refined**			

1.	Title of on-farm trials	Assessment of tomato variety (Utkal Raja)
2.	Problem diagnose	Low yield in traditional variety due to wilt (30%) and yield 180q/ha.
3.	Details of technologies selected for assessment/refinement	Wilt tolerant variety Utkal Raja with recommended full package and practices.
4.	Source of technology	OUAT, Bhubaneswar
5.	Production system	Small production system
6.	Thematic area	Production of low volume and high value crop / Off season vegetable cultivation
7.	Micro – farming Situation	Irrigated Upland
8.	Performance of the Technology with performance indicators	- Yield - Wilt % - No. of fruits / plant -Pest & diseases incidence - B.C ratio
9.	Final recommendation for micro level situation	Wilt tolerant variety of Tomato will be a profitable enterprise due to high production and resistance to wilting.
10.	Constraints identified and feedback for research	Unavailability of seeds in local market. Early harvesting in yellow stage as the keeping quality is low.
11.	Process of farmers participation and their reaction	5 Nos. of farmers were participated in the OFT programme. High yield, fruits appear in 8 clusters having 5 nos. of fruits which is just double as compared to local. Keeping quality should be improved as the outer covering of fruit is very thin.

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	Irrigated upland	Low yield in traditional variety due to wilt (30%)	Assessment of Tomato variety Utkal Raja	5	T ₁ - Traditional variety T ₂ - Wilt tolerant Tomato variety	 Yield Wilting % No. of fruits/plant Pest & disease incidence B:C ratio

Data on the parameter	Data on the parameter Results of assessment		Any refinement done	Justification for refinement
8	9	10	11	12
<u>Yield</u> T ₁ – 180q / ha. T ₂ -380 q/ha.	Wilt tolerant tomato variety Utkal Raja increased yield almost double as compared to	Yield is just double as compared to local variety is nil where as 30% in local.	-	-
$ \begin{array}{l} \mbox{Wilting \% T_1 - 30\% , T_2 - Nil} \\ \hline \mbox{No. of fruits / plant T_1 - 18-20 , T_2 - 40} \\ \mbox{Pest \& disease incidence - T_1 - 30} \\ \mbox{to 40 \% , T_2 - 5\%} \\ \hline \mbox{B :C ratio - T_1 - 1.6 , T_2 - 2.76} \\ \end{array} $	local check and wilting % is nil where as 30% in local check	Flowering appears in 38 days and fruits / plant is 40 and fruit weight is around 97 gm. But it should be early harvested in yellow stage as keeping quality is low (Thin skin)		

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice – T ₁	180 q/ha.	Rs.27,000/-	1.6
Technology assessed – T ₂	380 q/ha.	Rs.97,000/-	2.76

1.	Title of on-farm trials	Assessment of chilli variety – Utkal Rashmi
2.	Problem diagnose	Low yield in traditional / desi variety due to wilt (20%)
3.	Details of technologies selected for	Wilt tolerant variety Utkal Rashmi with recommended full
	assessment/refinement	package and practices
4.	Source of technology	OUAT, Bhubaneswar
5.	Production system	Small production system
6.	Thematic area	Low volume and high value crop
7.	Micro – farming Situation	Rainfed upland
8.	Performance of the Technology with performance	- Yield
	indicators	- Wilt %
		- Nos. of fruits / plant
		- Pest diseases incidence
		- B: C ratio
9.	Final recommendation for micro level situation	Wilt tolerant variety of Chilli (Utkal Rashmi) will be a
		profitable enterprise due to high production and resistance to
		wilting.
10.	Constraints identified and feedback for research	Unavailability of seeds in market. Pungency should be
		improved for green chilli
11.	Process of farmers participation and their reaction	5 nos. of farmers were participated for the process. Yield
		increased by 74% as compared to local and wilting is nil.
		Pungency should be improved for table purposes as
		pungency is very low.

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Chilli	Rainfed upland	Low yield in traditional variety due to wilt (20%)	Assessment of Chilly variety : Utkal Rashmi	5	T ₁ - Traditional variety T ₂ - Wilt resistant Chilli Variety	- Yield - Wilting % - No. of fruits / plant - Pest and disease incidence - B : C ratio

Data on the parameter	Results of assessment	Feedback from the	Any refinement	Justification for
Bata on the parameter		farmer	done	refinement
8	9	10	11	12
Yield	Wilt tolerant Chilli variety	Yield increased by	-	-
T₁-50q/ha.	Utkal Rashmi increased	74% over the local		
T ₂ _87 q/ha.	yield by 74% over the	check and wilting is		
	farmers practice and	nil where as 20% in		
Wilting % T_1 20%, T_2 – Nil	wilting % is nil where as	local check.		
No. of fruits / plant	20% in local check.	Pungency is very low		
T ₁ 250 to 300		which should be		
T ₂ 900		improved.		
Pest & disease incidence				
T ₁ 30 to 40%				
T ₂ Nil				
B : C ratio				
T ₁ 1.66				
T ₂ 2.17				

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice - T ₁	50 q/ha.	Rs.16,000/-	1.66
Technology assessed – T ₂	87 q/ha.	Rs.37,600/-	2.17

1.	Title of on-farm trials	Assessment of Tissue Culture Banana
2.	Problem diagnose	Low yield in traditional suckers due to wilt complex, Pavan, wilt, Sigatoka leaf split creates hindrance for large scale cultivation.
3.	Details of technologies selected for assessment/refinement	Tissue cultured Banana (Bantala) are free to type, uniform, disease free. Commercial cultivation prove profitable.
4.	Source of technology	Regional Plant Resource Centre, Bhubaneswar
5.	Production system	Small production system
6.	Thematic area	Cultivation of fruit
7.	Micro –farming Situation	Irrigated medium land
8.	Performance of the Technology with performance indicators	 Yield (Bunch / ha.) No. of hands / plant Nos. of banana/ hand Disease & Pest incidence Mortality %
9.	Final recommendation for micro level situation	Results awaited
10.	Constraints identified and feedback for research	Results awaited
11.	Process of farmers participation and their reaction	For testing of the technology on the Varietal substitution, tissue cultured banana is decided in collaboration with the farmers separating the plots in two parts is one for local check and other for testing plots makes the design.

3.1.C. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Tissue cultured Banana	Irrigated medium land	Low yield in traditional suckers due to wilt complex, Panama will sigatoka leaf spot.	Assessment of tissue cultured Banana	5	T ₁ - Traditional suckers T ₂ - Tissue cultured plants	 Yield (bunch / ha.) Nos. of hands / plant Nos. of banana / hand Disease & pest incidence mortality % B: C ratio

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
<u>Technical</u> - Yield – (bunch / ha.) - Nos. of hands / plant - Nos. of banana / hand - Disease & Pest incidence - Mortality %	In progress	Plant canopy is good.		
Economic				
B : C ratio				

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
	In progress		

OFT-6

1.	Title of on-farm trials	Assessment of Wheel Finger Weeder
2.	Problem diagnose	High labour and cost involvement in manual hand weeding
3.	Details of technologies selected for assessment/refinement	 Capacity .015 ha / hr. Labour requirement – 8.3 mandays / ha. Weight – 7 kg
4.	Source of technology	CAET, OUAT, 2004
5.	Production system	Green revolution production system
6.	Thematic area	Location specific drudgery reduction
7.	Micro –farming Situation	Irrigated medium land
8.	Performance of the Technology with performance indicators	Weeding capacity, labour requirement, mandays / ha. Weeding efficiency %
9.	Final recommendation for micro level situation	Suitable for weeding and intercultural operation in groundnut
10.	Constraints identified and feedback for research	Availability of wheel finger weeder to farm women
11.	Process of farmers participation and their reaction	Field visit, training and group discussion.

Crop/ Enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Groundnut	Irrigated medium	High labour and cost involvement	Assessment of wheel	5	Wheel finger	Weeding Capacity
	land	in manual hand	finger		weeder	Labour requirement
		hand hoe	weeder		(1 ₂)	Weeding efficiency

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Weeding capacity T ₁ 0029 ha / hr. T ₂ 012 ha/hr	Weeding and inter-culture operation can be managed by saving labour cost due to	It avoids bending, squatting pastures, which is generally	-	-
Labour requirement T ₁ - 43.75 mandays /ha. T ₂ -11.2 mandays/ha.	continuous operation	adopted in traditional method.		
Weeding efficiency T ₁ - 87% T ₂ -100%				
Cost of operation T ₁ - Rs 1470/- per ha. T ₂ - Rs 785.75 per ha.				

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice (Local) - T ₁	25 q/ha	14,700/-	1.48
Technology assessed -T ₂	32 q/ha	18,000/-	1.55

1.	Title of on-farm trials	Assessment of Pedal operated Groundnut Thresher
2.	Problem diagnose	High labour and cost involvement in manual hand picking
		method
3.	Details of technologies selected for assessment/refinement	Pedal operated Groundnut Thresher
		Weight – 45.6 kg, Length – 85 cm
		Width – 75 cm, Height – 98 cm
		Capacity – 27.5 kg/hr.
		Labour requirement – 3.64 manhour/q
4.	Source of technology	CAET, OUAT
5.	Production system	Green revolution production system
6.	Thematic area	Location specific drudgery reduction technologies
7.	Micro –farming Situation	Irrigated medium land
8.	Performance of the Technology with performance	Threshing capacity, Threshing efficiency,
	indicators	Labour requirement, Cost of operation
9.	Final recommendation for micro level situation	Useful for rabi groundnut crop
10.	Constraints identified and feedback for research	
11.	Process of farmers participation and their reaction	Field visit and discussion on existing practices.
		Farmers reaction : High output, Easy to operate

Crop/ Enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Groundnut	Irrigated medium land	High labour, time & cost for threshing in manual hand picking method.	Assessment of pedal operated Groundnut thresher	5	Pedal operated groundnut thresher (T ₂)	Threshing capacity. Threshing efficiency Labour requirement manhr./q Cost of operation

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
Threshing capacity T ₁ 3.85 kg / hr. T ₂ 22.65 kg/hr Threshing efficiency T ₁ - 100% T ₂ - 93.75%	Labour & time requirement is less in pedal operated Groundnut thresher	Higher output. It helps to reduce the drudgery involved in groundnut threshing operation	-	-
Labour requirement T ₁ - 25.97 man hr/q. T ₂ -4.42 man hr/q				
T ₁ - Rs 227.24/- per q T ₂ - Rs 55.6 per q.				

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice - T ₁ (Manual hand picking method)	23 q/ha	19,400/-	1.32
Technology assessed -T ₂	28 q/ha	17,200/-	1.41

1.	Title of on-farm trials	Assessment of SRI method of paddy cultivation
2.	Problem diagnose	Low yield of paddy due to improper plant population, use of old seedlings,
		weed and water management
3.	Details of technologies selected	Low seed rate, Proper nursery management, Early planting
	for assessment/refinement	Plant population, Optimum water management
4.	Source of technology	ANGRAU, Hyderabad, 2005
5.	Production system	Commercial production system
6.	Thematic area	Integrated crop management
7.	Micro –farming Situation	Irrigated medium land
8.	Performance of the Technology	Technical parameter
	with performance indicators	No. of effective tillers / hill, No. of hills / m ² , No. of grains / panicle, yield
		Economic parameter
		CB ratio, Additional income
9.	Final recommendation for micro	Farmers may choose a medium duration variety for taking of SRI cultivation in a field
	level situation	where water logging is not a problem. During Kharif season transplanting should be
		Water may be pumped into the field one day before operation of cono weeder
10.	Constraints identified and	It is difficult to operate the cono weeder for management of weeds after 25-30 days
_	feedback for research	of transplanting due to profuse tillering. Necessary refinement may be done with the
		implement.
11.	Process of farmers participation	The OFT was conducted in a participatory mode in all stages of management and
	and their reaction	they are willing to adopt the technology.

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	Irrigated medium land	Low yield of paddy due to improper plant population, use of old seedlings, weed and water management	Assessment of SRI method of paddy cultivation	5	SRI method of paddy cultivation (T ₂)	No. of effective tillers/hill Hills/m ² No. of grains/panicle Yield (t/ha)

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
T ₁ 8.29	The SRI method of cultivation	Through transplanting	-	-
T ₂ 24.05	produced more nos. of	of juvenile seedlings		
T ₁ 38.4	panicle / m ² , more nos. of	(12 days old) is difficult		
T ₂ 16	grains / panicle and higher	as compared to normal		
T ₁ 154.5	yield than conventional	transplanting, but they		
T ₂ 172.8	method of transplanting	will get accustomed to		
T ₁ 5.1 t/ha		it after practicing it for		
T ₂ 6.8 t/ha		2-3 seasons. The		
		farmers are willing to		
		adopt the technology.		

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice** -T ₁	5.1 t/ha	29900	2.86
Technology assessed**- T ₂	6.8 t/ha	46000	4.02

1.	Title of on-farm trials	Assessment of medium duration rice variety
		Manaswini
2.	Problem diagnose	Low yield of ruling var. MTU-1001
3.	Details of technologies selected for	Var. Manaswini, Duration- 132 days
	assessment/refinement	Resistant to gall midge, leaf folder, white ear head ;
		moderately resistant to WBPH, moderately tolerant to
		blast and sheath blight, Milling- 72%, HRR-70
4.	Source of technology	OUAT, Bhubaneswar, 2007
5.	Production system	Commercial production system
6.	Thematic area	Integrated crop management
7.	Micro –farming Situation	Irrigated medium land
8.	Performance of the Technology with performance	Technical parameter
	indicators	• No. of effective tillers/hill
		• Hills/ m^2
		• No. of grains/panicle
		• Yield
		Economic parameter
		CB ratio
		• Net profit
9.	Final recommendation for micro level situation	
10.	Constraints identified and feedback for research	
11.	Process of farmers participation and their reaction	

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	Irrigated medium land	Low yield of ruling var. MTU- 1001	Assessment of medium duration rice var. Manaswini	4	Var. Manaswini (T ₂)	No. of effective tillers/hillHills/m2No. of grains/panicleYield (t/ha)

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
$\begin{array}{c} T_{1}\text{6.9} \\ T_{2}\text{8.2} \\ T_{1}\text{39.8} \\ T_{2}\text{40.4} \\ T_{1}\text{132.8} \\ T_{2}\text{152.6} \\ T_{1}\text{3.84 t/ha} \\ T_{2}\text{4.62 t/ha} \end{array}$	The variety performed well under medium land situation.	The variety is producing more no. of tillers, it is tastier and fetches more price in the market as it is finer than <i>MTU-1001</i> .	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice** -T ₁	3.84 t/ha	17408	2.09
Technology assessed**- T ₂	4.62 t/ha	25580	2.59

1.	Title of on-farm trials	Assessment of liming material in groundnut			
2.	Problem diagnose	Low yield of groundnut (12.22 q/ha)due to soil acidity			
3.	Details of technologies selected for	Application of 0.2 L.R (L.R= 6t/ha)			
	assessment/refinement	Application of FYM @ 5t/ha			
4.	Source of technology	NICH area of acid soil management, OUAT			
		Bhubaneswar			
		2007			
5.	Production system	Commercial production system			
6.	Thematic area	Integrated crop management			
7.	Micro –farming Situation	Irrigated medium land			
8.	Performance of the Technology with performance	Technical parameter			
	Indicators	no of pods /plant			
		shelling %age			
		yield			
		Economic Parameter: C: B ratio, additional income			
9.	Final recommendation for micro level situation	_			
10.	Constraints identified and feedback for research	In progress			
11.	Process of farmers participation and their reaction				

Crop/ Enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	5	5	6	7
Groundnut	Irrigated medium land	Low yield of groundnut (12.22 q/ha)due to soil acidity	Assessment of liming material in groundnut	5	-	Technical parameterno of pods /plantshelling %ageyieldEconomic Parameter:C: B ratio

Data on the parameter		Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8		9	10	11	12
T1	T2				
In progress					

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice** -T ₁			
Technology assessed**- T ₂			
Technology refined**			

1.	Title of on-farm trials	Assessment of Bio-fertilizer & Sodium
		Molybdate in green gram
2.	Problem diagnose	Low yield (4.54 q/ha) of green gram due to
		improper nutrient management
3.	Details of technologies selected for assessment/refinement	Application of Bio-fertilizer (Rhizobium and
		PSB) along with Sodium Molybdate
4.	Source of technology	Dept. of Soil Science, OUAT, 2005
5.	Production system	Commercial production system
6.	Thematic area	Integrated crop management
7.	Micro –farming Situation	Irrigated medium land
8.	Performance of the Technology with performance indicators	Technical parameter: Yield
		Economic Parameter: C: B ratio
9.	Final recommendation for micro level situation	
10.	Constraints identified and feedback for research	In progress
11.	Process of farmers participation and their reaction	

Crop/ Enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	5	5	6	7
Green Gram	Irrigated medium land	Low yield (4.54 q/ha) of green gram due to improper nutrient management	Assessment of Bio- fertilizer & Sodium Molybdate in green gram	5	-	Technical parameter: Yield Economic Parameter: C: B ratio

Data on the parameter		Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement	
8		9	10	11	12	
	T1	T2				
In progress						

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice** -T ₁			
Technology assessed**- T ₂			
Technology refined**			

1.	Title of on-farm trials	Assessment of Low cost Transplanting Guide
2.	Problem diagnose	Improper plant population in random transplanting resulting
		in higher time and cost for intercultural operation and
		reduction in yield (8-10 %).
3.	Details of technologies selected for	Line transplanting by transplanting Guide
	assessment/refinement	Weeding by Cono Weeder
4.	Source of technology	CAET, OUAT-1997
5.	Production system	Green revolution production system
6.	Thematic area	Use of farm machinery and implements
7.	Micro –farming Situation	Irrigated medium high yielding
8.	Performance of the Technology with performance	Technical parameter
	indicators	Output – Transplanting, weeding (ha/hr),
		Time requirement - Transplanting, weeding (man hrs/ha)
		No of effective tillers/ m^2 , Yield – q/ha .
		Economic parameter
		Cost-benefit Ratio
9.	Final recommendation for micro level situation	Line transplanting was made easier by the low cost
		transplanting guide which facilitated use of cono weeder
10.	Constraints identified and feedback for research	Labour requirement for line transplanting was higher, but
		weeding cost was lower.
11.	Process of farmers participation and their reaction	Group discussion and demonstration in the field.

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	Irrigated	Improper plant	Assessment	5	Line	Output – Transplanting(ha/hr)
	medium	population in	of Low cost		transplanting	Output –weeding (ha/hr)
	land	random	Transplanting		by	Time requirement
		transplanting	Guide Device		transplanting	Transplanting
					Guide	(man hrs/ha),
					Weeding by	Time requirement weeding
					Cono	(man hrs/ha)
					(T1)	No of effective tillers/m ²
						Yield – q/ha.

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
$\begin{array}{c} T_1 - 0.0032 \\ T_2 - 0.0042 \\ \hline T_1 - 0.0084 \\ T_2 - 0.0047 \\ \hline T_1 - 315.8 \\ T_2 - 235.8 \\ \hline T_1 - 118.5 \\ \hline T_2 - 212.6 \\ \hline T_1 - 315 \\ \hline T_2 - 212.6 \\ \hline T_1 - 315 \\ \hline T_2 - 290 \\ \hline T_1 - 51.5 \\ \hline T_2 - 45.4 \\ \hline \end{array}$	The labour requirement for line transplanting using low cost transplanting guide was higher (80.3 manhrs/ha. But the labour requirement for weeding by cono weeder was less as compared to manual hand weeding (94.1 manhrs/ha.). The yield was higher in case of line transplanting (6.1q/ha.) with net saving in labour by 13.8 manhrs/ha.	Labour requirement for Weeding by Cono Weeder was less compared to manual hand weeding in random transplanting case.	-	-

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice** -T ₁	16071	30323	2.89 : 1
Technology assessed**- T ₂	16027	24789	2.54 : 1

1.	Title of on-farm trials	Assessment of Tractor Operated Groundnut Planter
		(Inclined plate)
2.	Problem diagnose	Improper plant population in conventional method of manual hill
		dropping behind the plough.
3.	Details of technologies selected for	Tractor operated inclined plate planter
	assessment/refinement	35 hp tractor, 6 row (row to row spacing: 20:45 cm)
		Depth of placement – Adjustable, Capacity : 2.5 hrs/ha.
4.	Source of technology	CAET, OUAT-2004
5.	Production system	Green revolution production system
6.	Thematic area	Use of farm machinery and implements
7.	Micro –farming Situation	Irrigated medium high yielding
8.	Performance of the Technology with	Technical parameter
	performance indicators	Output – ha/hr, Time requirement - hrs/ha,
		Cost of operation – Rs./ha., Plant population/ m^2 , Yield – q/ha.
		Economic parameter
		Cost-benefit Ratio
9.	Final recommendation for micro level situation	Line sowing was made easier with less cost and time.
10.	Constraints identified and feedback for research	Availability of the Tractor Operated Groundnut Planter.
11.	Process of farmers participation and their reaction	Training programme, Group discussion and demonstration in the field.

Crop/ Enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment
1	2	3	4	5	6	7
Groundnut	Irrigated	Improper plant	Assessment	5	Tractor	Technical parameter
	medium	population in	of Tractor Operated Groundnut		operated inclined plate planter	Output – ha/hr
		method of				Time requirement - hrs/ha
		manual hill				Cost of operation – Rs./ha.
		dropping	Planter			Plant population/m ²
		behind the plough.	(Inclined plate)			Yield – q/ha.

Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
8	9	10	11	12
$\begin{array}{c} T_1 - 0.267 \\ T_2 - 0.024 \\ \hline T_1 - 3.75 \\ T_2 - 5 \ bullock \ pair \\ days \ and \ 20 \\ mandays. \\ \hline T_1 - 1400 \\ T_2 - 1675 \\ \hline T_1 - 63.8 \\ \hline T_2 - 68.5 \\ \hline \end{array}$	Time requirement for line sowing by the planter was 3.75 hrs/ha. only as compared to conventional method of manual hill dropping behind the plough (5 bullock pair days and 20 mandays). The cost of operation was also less (Rs.275 / ha.). -In progress -	Line sowing by the planter was found to be easier with less cost of operation.	-	-
Not harvested				

Technology Assessed / Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice** -T ₁	Not horizottad		
Technology assessed**- T ₂	Not narvested		

3.2 Achievements of Frontline Demonstrations a. Follow-up for results of FLDs implemented during previous years

			Details of	Horizontal spread of technology			
SI. No.	Thematic Area*	Technology demonstrated	popularization methods suggested to the Extension system	No. of villages	No. of farmer	Area in ha.	
1.	Integrated pest manage-ment in paddy	 Use of bio-pesticides Installation of pheromone traps Use of egg parasites (Trico cards) 	Training Field day Media coverage Leaflets	6	124	7.5	
2	IPM in Tomato	 Spraying of Neem oil Use of traps with Heli-lure capture Helicarpa 	Training	4	100	1.5	
3	Bee keeping		Training Field day Radio Talk	7	30	30 units	
4	Cultivation of hybrid mango	Hybrid variety	Training Field day	6	15	7	
5	Cultivation of fruit	Hybrid Papaya	Training Leaflet	7	30	10	
6	Expert potential of ornamental plants / Commercial floriculture	French Marigold hybrid	Training	5	20	4	
7	Production of low volume and high value crop	Wilt resistant variety of Brinjal replacement of variety due to wilting	Training Radio Talk, ETV programme	10	40	15	
8	Location specific drudgery reduction	Hand Ridger	Radio talk, TV shows Leaflets Training	5	50		
9	Income generation activities for empowerment of rural women	Oyster mushroom cultivation	Radio talk TV shows, Training Group discussion Field day	1	20	20 nos.	
10	Income generation activities for empowerment of rural women	Paddy Straw cultivation	TV shows Radio talk Training Group discussion	2	50	50 nos.	
11	Household food security by kitchen gardening	Nutritional garden	Training Radio talk Group discussion	5	50	0.02	
12	Repair and maintenance of farm machinery and implements	Power Reaper	TV shows Radio talk Training Group discussion	10	200	125	

b. Details of FLDs implemented during 2008-09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

SI. No.	Crop Thematic area Technology Demonstrate		Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Paddy	IPM	 Application of granular pesticides in the nursery Capture of adult male stem borer by pheromone trap Use & installation of egg cards (Trichogramma sp) Application of Neem pesticides 	Kharif- 2008	2	2	10	0	10	
2	Brinjal	IPM	Application of Neem cake during land preparation Spraying of neem pesticides Installation of pheromone trap with lucin-lure Need based application of chemicals (Triazophes) & (Cartap hydrochloride)	Rabi 2008-09	0.5	0.5	3	7	10	
3	Cabbage	IPM	Application of botanical pesticides Need based application of chemicals (Cartap hydrochloride)	Rabi 2008-09	0.5	0.5	0	10	10	
4	Tomato	IPM	Application of NVP Installation of Pheromone traps with Heli-lure Need based application of botanical pesticides	Rabi, 2008-09	0.5	0.5	10	0	10	
5	Mango	Varietal substitution	Hybrid variety	Kharif, 2007	1.0	1.2		6	6	

Details of FLDs implemented during 2008-09 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

6	Drumstick	Varietal substitution	Introduction of hybrid variety (drumstick) replacement of variety	Kharif, 2008	0.2	0.2	3	3	6	
7	Papaya	Varietal substitution	Introduction of hybrid variety, replacement of variety	Kharif, 2008	0.2	0.2	3	2	5	
8	Brinjal	Varietal substitution	Wilt resistant variety of Brinjal. Replacement of variety due to wilting	Rabi 2008-09	0.2	0.5	6	11	17	
9	Elephant foot yam	Production and management techniques	Introduction of high yielding elephant foot yam	Rabi 08-09	0.02	0.03	3	2	5	
10	Paddy	Integrated crop management	Aromatic rice	Kharif,2008	2.0	1.5	3	6	9	Seed not availa ble
11	Paddy	Integrated crop management	Varietal substitution	Kharif,2008	2.0	0.2	-	2	2	Seed not availa ble

Details of farming situation

Sl. no.	Сгор	icason	arming tuation Irrigated)	oil type	Sta	tus of s	oil	ious crop	ving date	vest date	nal rainfall (mm)	rainy days
			F ² sii	Ň	N	Р	к	Prev	Sow	Har	Seaso	No. of
1	Paddy	Kharif, 08	Irrigated medium land	Sandy Ioam				Greengram	22.06.08	20.11.08		
2	Brinjal	Rabi,08- 09	Irrigated medium land	Sandy Ioam				Paddy	01.12.08	28.03.09		
3	Cabbage	Rabi 2008-09	Irrigated medium land	Sandy Ioam				Brinjal	04.12.08	18.02.09		
4	Tomato	Rabi 2008-09	Irrigated medium land	Sandy Ioam				Cabbage	28.12.08	30.03.09		
5	Mango	Kharif, 07	Irrigated upland	Sandy Ioam	L	L	М	Fallow	03.08.07	Continuing In progress		
6	Drumstick	Kharif, 08	Rainfed upland	Sandy Ioam				Fallow	22.06.08	In progress		
7	Papaya	Kharif, 08	Irrigated upland	Sandy Ioam				Vegetable	22.06.08	In progress		
8	Brinjal	Rabi, 08- 09	Irrigated upland	Sandy Ioam				Vegetable	30.09.08	16.01.09		
9	Elephant foot yam	Rabi 08- 09	Irrigated medium land	Sandy Ioam				Vegetable	30.03.09	In progress		
10	Paddy	Kharif, 08	Irrigated medium land	Sandy Ioam				Paddy	19.07.08- 22.07.08	2 nd Nov. to 6 th Nov.08		
11	Paddy	Kharif, 08	Rainfed irrigated	Sandy Ioam				Paddy	20.07.08	6 th to 7 th December, 08		

Performance of FLD

SI.	Cron	Technology	Variaty	No. of	Area	De	mo. Yield	l Qtl/ha	Yield of local	Increase in viold	Data on parameter in	relation to
No	Стор	Demonstrated	variety	Farmers	(ha.)	Н	L	Α	OfL/ha	(%)	Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Paddy	IPM	Puja	10	2	48	32	40	31.5	27	stem borer attack (Dead heart) -3%	8%
											Gall midge damage(Silver shoot) -1%	14%
											% Leaf Folder damage (Leaf damage) -7%	35%
											Average nos. of insects / trap-16	-
											Yield 40q/ha	31.5q/ha.
2	Brinjal	IPM	Blue star	10	0.5	230	150	190	175	8	damaged shoots- 14%	30%
											% damaged fruits-8	20%
											Avg. no. of insects / trap/week-3	-
											Yield- 190q/ha.	175q/ha.
3	Cabbage	IPM	Golden Acre	10	0.5	239	215	227	215	5	damaged head-4%	9%
											Yield -227q/ha.	215q/ha.
4	Tomato	IPM	Punjab Keshari	10	0.5	240	220	230	200	15	% damaged fruits (Fruit borer) -2%	18%
											Avg. no. of insects/trap/week-4	-
											Yield 230q/ha.	200q/ha.
5	Mango	Introduction of hybrid variety	Amrapalli	6	1.2				In progress			
6	Drumstick	Replacement of variety	PKM-2	6	0.2				In progress			
7	Papaya	Replacement of variety	Chadha Selection-2	5	0.2				In progress			
8	Brinjal	Replacement of variety	Utkal Keshari	17	0.5	303	244	278	180	54	Yield – 278q/ha Wilting-Nil	180 q/ha. 30-40%
9	Elephant foot yam	Introduction of hybrid variety	Gajendra	5	0.03				In progress			
10	Paddy	Aromatic	Gitanjali	9	1.5	44.2	36.6	41	44.4	-7.6	Effective tillers/hill-7.2	8.4
		rice									Hills / m ² -41.4	38.7
											Grains / panicle- 48.4	52.5
11	Paddy	Varietal	Pratikhya	2	0.2	56.2	53.4	54.8	48.6	12.75	Effective tillers/hill-	10.6
		substitution	-								12.8	
											Hills / m ² - 37.8	38.2
											Grains / panicle -	160.7

Economic Impact (continuation of previous table)

	Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net F (Rs.	Average Net Return (Profit) (Rs./ha)		
	Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check		
	14	15	16	17	18	19	20	
1	14,500	14,000	36,000	28,350	21,500	14,350	2.48	
2	46,800	45,600	95,000	87,500	48,200	41,900	2.02	
3	42,000	40,000	90,800	86,000	48,800	46,000	2.16	
4	42,000	38,000	92,000	80,000	50,000	42,000	2.19	
5								
6			In prog	ress				
7								
8	50,000	40,000	1,39,000	90,000	89,000	50,000	2.78	
9			In prog	ress				
10	16000	16000	49200	39960	33200	23960	3.07	
11	15800	16250	49320	43740	33520	27490	3.1	

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

Сгор	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Paddy	Kharif-08	Plant protection	Irrigated medium land	40	31.5	27%
Brinjal	Rabi – 08-09	Plant protection	Irrigated medium land	190	175	8%
Cabbage	Rabi-08-09	Plant protection	Irrigated medium land	227	215	5%
Tomato	Rabi 08-09	Plant protection	Irrigated medium land	230	200	15%
Mango	Kharif-07	Variety	Rainfed upland	In progress		
Drumstick	Kharif-08	Variety	Rainfed upland	In progress		
Papaya	Kharif 08	Variety	Irrigated upland	In progress		
Brinjal	Rabi 08-09	Variety	Irrigated upland	2789 q/ha.	180q/ha	54%
Elephant Foot Yam	Rabi 08-09	Variety	Irrigated medium land	In progress		
Mango	Kharif-07	Variety	Rainfed upland	In progress		
Paddy	Kharif-08	Aromatic Rice	Irrigated Medium land	41	44.4	-7.6 (increase in income % is 23.12)
Paddy	Kharif-08	Variety	Irrigated Medium land	54.8	48.6	12.75

Technical Feedback on the demonstrated technologies

S. No	Feed Back
IPM in paddy	IPM strategy can be adopted on the paddy production system instead of rely on only chemical pesticides because the performance of IPM module in the field is good & farmers friendly.
IPM in Brinjal	IPM module with traps & bio-pesticides with need based chemical application is effective in the management of fruit and shoot borer. Adoption of this module can reduce the pesticide load on the crop.
IPM in Cabbage	Management of cabbage borers by bio-pesticides is a novel approach towards environmental safety and is also an effective strategy.
IPM in Tomato	Use of traps and bio-pesticides can substitute the application of chemicals in tomato which is consumed now. From the result it has been found that the performance of botanicals and bio-pesticides is good.
Hybrid Mango	Crop growth is satisfactory in its second year
Hybrid Drumstick	Crop canopy is good after thrice deheading
Hybrid Papaya	30% of total plants have become male although productivity seems to be higher than traditional variety from initial observations.
Wilt resistant variety of Brinjal	Due to heavy fruit size, there is breakage of branches; where as wilting was not seen. Marketability is poor for which farmers do not prefer such size of fruit.
Elephant Foot Yam	In progress
Aromatic Rice	The variety showed segregation
Medium duration variety Pratikashya	The variety was not affected by disease and pest problem as compared to local check <i>MTU-7029.</i>

Farmers' reactions on specific technologies

S. No	Feed Back
IPM in Paddy	Farmers are very interested to adopt the IPM technology.
IPM in brinjal	Farmers show positive response towards the components of IPM module
IPM in Cabbage	Farmers feel that application of bio-pesticides can substitute chemicals
IPM in Tomato	Farmers realize the bad effects of chemicals and have a positive attitude towards
	the new technology.
Hybrid Mango	Crop canopy is good and no disease pest attack
Hybrid Drumstick	Crop canopy is good and flowering appeared.
Hybrid Papaya	30% male where as in local 50% male. Farmers' acceptance is poor.
Wilt resistant variety of Brinjal	No wilting where as in traditional variety 20-30% wilting. Yield is increased 54%
	more than local. Farmer's acceptance is not good due to its heavy size.
High yielding Elephant Foot	In progress
yam	
Aromatic Rice	Due to its Aroma and high yielding nature the farmers showed positive interest for
	the variety. The cooking quality was appreciated by farmers.
Medium duration variety	The variety was apparently pest free, it tastes better than MTU-7029 and is very
Pratikashya	good for preparing local food – <i>Mudhi</i>

Extension and Training activities under FLD

SI. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field day	9	03.11.08	500	
			21.11.08		
			22.11.08		
			09.03.09		
			13.03.09		
			25.03.09		
			26.03.09		
			28.03.09		
			30.03.09		
2	Farmer's training	10	03.07.08 & 05.07.08	200	
			04.11.08 & 05.11.08		
			15.12.08 & 16.12.08		
			05.01.09 & 06.01.09		
			16.03.09 & 17.03.09		
			13.05.08 & 14.05.08		
			29.01.09 & 30.01.09		
			25.02.09 & 26.02.09		
			26.09.08 to 27.09.08		
			16.05.08 & 17.05.08		
3	Media coverage	2	24 April & 3 rd		
			November,08		
4	Training for Extension	1	12.09.08 & 13.09.08	15	
	Functionaries				

c. Details of FLD on Enterprises (i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters /	* Data on relation t demonstrated	parameter in o technology	% Change in the parameter	Remarks
				mulcators	Demon.	Local check		
				Capacity, ha/hr.	0.16	0.007	23 times more	Higher output with
				Labour	6.25	145.6	95.74% less	less labour time
		_		requirement,				and cost for
Power Reaper	Paddy	5	2.5	man hr/ha.				harvesting.
				Cost of	385	1274	Rs.889 / ha. less	Useful for
				operation, Rs /ha				standing crop.
				Capacity, ha/hr.	0.37	0.19	94.74 % less	
				Time	2.72	5.28	48.48% less	التعامم معناما
				requirement,				
				hrs/ha.				better quality of
Rotavator	Paddy	5	2.0	Fuel	12.24	23.76	48.48% less	puddle with less
				Consumption,				cost (Rs.861.73 /
				Itr/na.	4004.00	4052.0	De 004 72 / he	ha) and time
				Cost of Puddling	1091.29	1953.2	RS.801.737 na.	(48.48%).
				Yield Rs /ha	45.8	43.5	5 29 % more	
				Conceity, he /hr	40.0		0.20 /0 11010	
					8.5	44.7	- 80.08 % loss	Saving in labour
				requirement	0.5	44.7	00.90 /0 1855	(36.2 man
Pre-				mandays/hr				days/ha.) and
germinated	Paddy	5	2.0	Cost of	707.20	3129	Rs.2421.80 less	saving in cost
paddy seeder				operation,				(77.40 %) with
				Rs./ha.				nigner yield (3.6
		1		Yield q/ha.	46.1	42.5	8.47 % more	q/na.)

(ii) Livestock Enterprises

Enterprise	Breed	No. of Performance No. of animals, parameters / farmers poultry indicators birds etc.	Performance parameters /	* Data on parameter in relat demonstrate	tion to technology ed	% change	Remarks												
Enterprise	Bieca		farmers	farmers	farmers	farmers	farmers	farmers	farmers	farmers	farmers	farmers	farmers	farmers	poultry birds etc.	indicators	Demon.	Local check(Desi)	parameter
								-											
								-											

(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 Demon. Local		% change in the parameter	Remarks
				Yield	4.5	check		
Apiary	Apis indica	10	10	New colony	kg/box 2 colony per box	-		
				Yield (kg/ bed)	1.8	1.3	38% more	In local check Oyster musbroom
Oyster Mushroom	P.sajarcaju	10	10	Biological efficiency	100%	83%	-	without
				B:C ratio	1.94	1.63	-	(wheat)
Hand Ridger	Manually operated Hand Ridger	10	10	Total no. of riders of 25 m length made / hr	83	79	5.06 more	 About 78.62% saving in cardiac cost
				Area covered m²/hr	300	80	3.75 times more	of worker per unit output
				Resting Pulse rate, beats/min.	74	70	5.79 less	with the Ridger.
				Working Pulse rate, beats/min	102	105	2.86 more	bending posture.
				Heart Rate, beats/m ²	28	35	20 less	
				Cardiac cost beats / m²/hr	5.6	26.2	78.62 less	
				Saving in Cardiac cost/m ² (%)			78.62 in demo	
	Khada (Utkal Mayuri)				50	40	25	 It provides fresh
	Ridge gourd (Green gold)				39.5	27	46	vegetables to the farm
	Tomato (BT- 10)	10	0.05	Season	75	40	87	throughout
Nutritional Garden	Cow pea (Arka garima)	10	.025	Yield	25	15	66	It meets the daily
	Chilli (Utkal Ava)				31.2	24.2	29	requirement of the farm
	Bhindi (Pusa Parbanikranti)				37.5	27	37	family
Paddy straw	V.volvacea	20	20	Yield (kg/bed)	1.3			
				Biological Efficiency	5%	NI		
				B: C ratio	1.47			
Vermicompost	E. foetida	10	10		1	In progree	SS	1

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

A) ON Campus

	No. of	Duration			No. c	of Partic	ripants		
Thematic Area	Courses	(days)		Others			SC/ST		Grand
		(41,55)	Male	Female	Total	Male	Female	Total	Total
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Integrated Pest Management									
Integrated Disease Management									
Cropping Systems	1	2	6	3	9		16	16	25
Crop Diversification	1	2	20		20	5		5	25
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management	1	2	19		19	6		6	25
Fodder production									ļ
Production of organic inputs									L
II Horticulture									
a) Vegetable Crops									
Production of low volume and high value									
crops									
Off-season vegetables	2	4	19		19	31		31	50
Nursery raising									
Exotic vegetables like Broccoli									
Export potential vegetables									
Grading and standardization									
Protective cultivation (Green Houses, Shade									
Net etc.)									ļ
Short duration vegetable crops									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards	- 1	0	00		00				05
Cultivation of Fruit	1	2	23		23	2		2	25
Deivwengtion of old orchards									
Event extential fruits									
Micro irrigation systems of orchards									
Plant propagation techniques									
c) Ornamental Plants									
Nursery Management									
Management of potted plants									
Export potential of ornamental plants									
Propagation techniques of Ornamental Plants									
d) Plantation crops									
Production and Management technology									
Processing and value addition									
e) Tuber crops									
Production and Management technology									
Processing and value addition									
f) Spices									
Production and Management technology									
Processing and value addition									
g) Medicinal and Aromatic Plants									
Nursery management									
Production and management technology									
Post harvest technology and value addition									i]

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									
Mianagement of Floorenatic sons									
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									
V Home Science, women empowerment									
Household food security by kitchen gardening	1	2		21	21		4	4	25
and nutrition gardening									
Design and development of low/minimum	1	2		25	25				25
cost diet									
Designing and development for high nutrient									
efficiency diet									
Minimization of nutrient loss in processing	1	2		12	12		13	13	25
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition	2	4		46	46		4	4	50
Income generation activities for empowerment									
of rural Women									
Location specific drudgery reduction	1	2		2	2		23	23	25
technologies									-
Rural Crafts									
Women and child care									
VI Agril, Engineering									
Installation and maintenance of micro									
irrigation systems		_							
Use of Plastics in farming practices	1	2				8	17	25	25
Production of small tools and implements									
Repair and maintenance of farm machinery	3	6	21		21	54		54	75
and implements	Ű	0				01		01	10
Small scale processing and value addition									
Post Harvest Technology									
VII Plant Protection									
Integrated Pest Management	3	6	18		18	50	7	57	75
Integrated Disease Management	1	<u> </u>	10		10	7	1	7	25
Die control of posts and discosos	1	2	10		10	1		1	23
Dis-control of pests and diseases									
riouction of bio control agents and bio									
VIII Fisheries									
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 carn hatchery									
i ortuble plustie eurp liutellery									

Shrimp farming									
Edible ovster 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									
Normal and a strang deation									
Vermi-compost production									
Diganic manures production									
Production of Iry and Ingerings									
Froduction of Bee-colonies and wax sneets									
Dra dratian a flimate de fra dan de dan									
Production of liveslock feed and fodder									
Production of Fish feed									
A Capacity Building and Group Dynamics									
C 1	1	0	01		01	4		4	05
Group dynamics		2	21	-	21	4	-	4	25
rorination and Management of SHGs									
Mobilization of social capital									
Entrepreneurial development of									
Tarmers/youths									
W IO and IPR issues			-						
XI Agro-forestry									
Production technologies									
Nursery management									
Integrated Farming Systems									
XII Others (Pl. Specify) Farm Management									
	1								
ΤΟΤΑΙ	24	42	165	100	274	167	04	254	E2E
TOTAL (D) DUDAL VOUTH	21	42	165	109	274	167	84	251	525
TOTAL (B) RURAL YOUTH Mushaoon Development	21	42	165	109	274	167	84	251	525
TOTAL (B) RURAL YOUTH Mushroom Production Bas learning	21	42	165	109	274	167	84	251	525
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated forming	21	42 4	165	109 2	274	167	84	251	525
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production	21	42	165 13	109 2	274 15	167	84	251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Development for a second integrated	21 1 1	42 4 2	165 13 13 18	109 2	274 15 18	167	84	251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Forming	21 1 1	42 4 2	165 13 18	109 2	274 15 18	167	84	251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Pleating methods have been been been been been been been be	21 1 1	42 4 2	165 13 18	2	274 15 18	167	84	251 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Varmin culture	21 1 1	42 4 2	165 13 18	2	274 15 18	167	84	251 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Social three	21 1 1	42 4 2	165 13 18	2	274 15 18	167 7	84	251 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Production of up of u	21 1 1	42 4 2	165 13 18	2	274 15 18	7	84	7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriguiture	21 1 1	42 4 2	165 13 18	2	274 15 18	7	84	251 7 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Demin and maintenance of farm machinery	21 1 1	42 4 2	165 13 18 18	2	274 15 18	7	84	251 7 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements	21 1 1	42 4 2	165 13 18 18	2	274 15 18	7	84	251 7 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture grops	21 1 1	42 4 2	165 13 18 18	2	274 15 18	7	84	251 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops	21 1 1	42 4 2	165 13 18 18	2	274 15 18	7	84	7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition	21 1 1	42 4 2	165 13 18 18	2	274 15 18	167 7 7	84	251 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products	21 1 1	42 4 2	165 13 18 18	2	274 15 18 	167 7	84	251 7 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairving	21 1 1 1 1 1 1 1 1 1 1 1 1 1	42 4 2	165 13 13 18 18 18 18 18 18 10 10 10 10 10 10 10 10 10 10	109 2	274 15 18 	167 7	84	251 7 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheen and goat rearing	21 1 1 1 	42 4 2 	165 13 13 18 18 18 18 18 18 18 10 10 10 10 10 10 10 10 10 10	109 2	274 15 18 	167 7	84	251 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming	21 1 1 1 1 1 1 1 1 1 1 1 1 1	42 4 2 	165 13 13 18 18 18 18 18 18 18 10 10 10 10 10 10 10 10 10 10	109 2	274 15 18 	167 7		251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery	21 1 1 	42 4 2 	165 13 13 18 18 18 18 18 18 18 18 18 18	109 2	274 15 18 	167 7 7		251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming	21 1 1 1 1 1 1 1 1 1 1 1 1 1	42 4 2 	165 13 13 18 18 	109 2	274 15 18 	167 7 7		251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production		42 4 2 	165 13 18 18 18 18 18 18 18 18 18 18	109 2	274 15 18 	167 7 7		251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production Ornamental fisheries		42 4 2 	165 13 13 18 18 18 18 18 18 18 18 18 18	109 2	274 15 18	167 7		251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production Ornamental fisheries Para vets		42 4 2 	165 13 13 18 18 18 18 18 18 18 18 18 18	109 2	274 15 18 	167 7		251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production Ornamental fisheries Para vets Para vets		42 4 2 	165 13 13 18 18 18 18 18 18 18 18 18 18	109 2	274 15 18 	167 7		251	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production Ornamental fisheries Para vets Para extension workers Composite fish culture		42 4 2 	165 13 13 18 18 18 18 18 18 18 18 18 18		274 15 18 18 	167 7		251 7	525 15 25
TOTAL (B) RURAL YOUTH Mushroom Production Bee-keeping Integrated farming Seed production Production of organic inputs Integrated Farming Planting material production Vermi-culture Sericulture Protected cultivation of vegetable crops Commercial floriculture Repair and maintenance of farm machinery and implements Nursery Management of Horticulture crops Training and pruning of orchards Value addition Production of quality animal products Dairying Sheep and goat rearing Quail farming Piggery Rabbit farming Poultry production Ornamental fisheries Para extension workers Composite fish culture Freshwater prawn culture		42 4 2 	165 13 13 18 18 18 18 18 18 18 18 18 18		274 15 18 18 	167 7		251	525 15 25
TOTAL(B) RURAL YOUTHMushroom ProductionBee-keepingIntegrated farmingSeed production of organic inputsIntegrated FarmingPlanting material productionVermi-cultureSericultureProtected cultivation of vegetable cropsCommercial floricultureRepair and maintenance of farm machinery and implementsNursery Management of Horticulture cropsTraining and pruning of orchardsValue additionProduction of quality animal productsDairyingSheep and goat rearing Quail farmingPiggeryRabbit farmingPoultry productionOrnamental fisheriesPara vetsPara extension workersComposite fish cultureFreshwater prawn cultureShripp farming		42 4 2 	165 13 13 18 18 18 18 18 18 18 18 18 18		274 15 18 18 	167 7		251	525 15 25

Pearl culture									
Cold water fisheries									
Fish harvest and processing technology									
Fry and fingerling rearing									
Small scale processing									
Post Harvest Technology									
Tailoring and Stitching	1	2		4	4		21	21	25
Rural Crafts									
TOTAL	3	8	31	6	37	7	21	28	65
I Extension Personnel									
Productivity enhancement	1	2	16		16	2		2	18
Integrated Pest Management									
Integrated Nutrient management									
Rejuvenation of old orchards									
Protected cultivation technology									
Formation and Management of SHGs	1	2	-	12	12	-	3	3	15
Group Dynamics and farmers organization	1	2	5	7	12	1	2	3	15
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									
Repair & Maintenance of Farm Machinery	1	2	15		15	1		1	16
Any other (Capacity building)	1	2	21	5	26	4	-	4	30
TOTAL	5	10	57	24	81	8	5	13	94

B) OFF Campus

	No. of Duration			No. of Participants						
Thematic Area	Courses	Duration (days)		Others			SC/ST		Grand	
		(uays)	Male	Female	Total	Male	Female	Total	Total	
(A) Farmers & Farm Women										
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Bio control in pest and disease										
Cropping Systems	1	2	25		25				25	
Integrated Pest Management										
Integrated Disease Management										
Crop Diversification	1	2	25		25				25	
Integrated Farming										
Water management										
Production of bio-control agents										
Seed production										
Nursery management										
Integrated Crop Management	1	2	22		22	3		3	25	
Fodder production										
Production of organic inputs	1	2	25		25				25	
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value										
crops										
Off-season vegetables	1	2				25		25	25	
Nursery raising										
Exotic vegetables like Broccoli										

	No. of	Destin	No. of Participants						
Thematic Area	Courses	Duration (days)		Others			SC/ST		Grand
		(days)	Male	Female	Total	Male	Female	Total	Total
Export potential vegetables	1	2		2	2	11	12	23	25
Grading and standardization									
Protective cultivation (Green Houses, Shade									
Net etc.)									
Short duration vegetable crops									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit	l	2	22	3	25				25
Management of young plants/orchards									
Rejuvenation of old orchards	1	2	17		1.7	0		0	25
Export potential fruits	l	2	17		17	8		8	25
Micro irrigation systems of orchards									
Plant propagation techniques									
c) Ornamental Plants									
Inursery Management									
Ivianagement of potted plants	1	2	16		16	0		0	25
Export potential of ornamental plants	1	Z	10		10	У		У	23
d) Plantation ansatz									
d) Plantation crops	1	2	10		10	((25
Production and Management technology	l	Z	19		19	0		0	25
e) Taken energy									
e) Tuber crops	1	2	15		1.5	10		10	25
Production and Management technology	1	Z	15		15	10		10	23
Processing and value addition									
I) Spices									
Production and Management technology									
a) Medicinal and Aramatic Plants									
g) Wedicinal and Aromatic Flants									
Production and management technology									
Post harvest technology and value addition									
III Soil Health and Fartility Management									
Soil fertility management									
Soil and Water Conservation									
Integrated Nutrient Management									
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				I	1		I		
				1	1	L.	1		
Dairy Management									
Poultry Management									
Piggery Management									
Rabbit Management									
Disease Management									
Peed management									
V Home Science/Warran array									
v nome Science/ women empowerment									
Household food security by kitchen gardening									
Design and development of low/minimum									
cost diet Designing and development for high nutrient									
efficiency diet									
Initialization of nutrient loss in processing									
Gender mainstreaming through SHGs									
Storage loss minimization techniques				ļ	L		<u> </u>		

	No. of Duration			No. of Participants					
Thematic Area	Courses	(days)		Others			SC/ST		Grand
		(uays)	Male	Female	Total	Male	Female	Total	Total
Value addition	2	4		23	23		27	27	50
Income generation activities for empowerment of rural Women	1	2		7	7		18	18	25
Location specific drudgery reduction									
Rural Crafts									
Women and child care									
VI Agril. Engineering									
Installation and maintenance of micro	1	2	25		25				25
irrigation systems	1	2	23		23				23
Use of Plastics in farming practices	1	2				25		25	25
Production of small tools and implements									
and implements	1	2				25		25	25
Small scale processing and value addition									
Post Harvest Technology									
VII Plant Protection									
Integrated Pest Management	2	4	12	3	15	32	3	35	50
Integrated Disease Management	2	4	11	0	11	39	0	39	50
Bio-control of pests and diseases	2	4	17	8	25	25	0	25	50
Production of bio control agents and bio									
pesticides VIII Fisheries									
Interreted fich forming									
Integrated fish farming									
Carp breeding and hatchery management									
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									ļ
Pearl culture									
Fish processing and value addition									
TA Production of Inputs at site									
Seed Production									
Planting material production									
Bio-agents production									
Bio-pesticides production									
Bio-fertilizer 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	2	24	-	24	1	-	1	25
Mobilization of social capital									
Entrepreneurial development of	1	2	25	-	25	-	-	-	25
Iarmers/youths									
w 10 and 1r K issues									Į

	No. of CoursesDurationNo. of Participants(dawa)OthersSC/ST							ants		
Thematic Area	Courses	Duration (days)		Others			SC/ST		Grand	
XI Agro-forestry		(uays)	Male	Female	Total	Male	Female	Total	Total	
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
XII Others (Pl. Specify)										
ΤΟΤΑΙ	25	50	300	46	3/6	210	60	279	625	
(P) DUDAL VOUTH	25	50	500	-10	540	217	00	21)	025	
Mushroom Production	1	2		25	25				25	
Bee-keeping	1	2		25	25				23	
Integrated farming										
Seed production	1	2	7		7	13	5	18	25	
Production of organic inputs	1	2	11		11	14	5	14	25	
Integrated Farming	1					11				
Planting material production										
Vermi-culture										
Sericulture										
Protected cultivation of vegetable crops										
Production of low volume and high value crop	1	2				25		25	25	
Cultivation of fruits	1	2	2		2	23		23	25	
Commercial floriculture production	-					20				
Export potential of ornamental plant	1	2	24		24	1		1	25	
Repair and maintenance of farm machinery	_									
and implements										
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Value addition	2	4		23	23		27	27	50	
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale processing	1	2	1		1	21	3	24	25	
Post Harvest Technology	1	2				25		25	25	
Tailoring and Stitching										
Rural Crafts	1	2		5	5		20	20	25	
TOTAL	11	22	45	53	98	122	55	177	275	
© Extension Personnel										
Productivity enhancement in fruit crops								<u> </u>		
Integrated Pest Management	1	2	7	1	8	5	2	7	15	
Integrated Nutrient management										
Rejuvenation of old orchards								ļļ		
Protected cultivation technology								ļļ		
Formation and Management of SHGs								ļļ		
Group Dynamics and farmers organization										
Information networking among farmers								 		
Capacity building for ICT application										
			1			l				

	No. of	Dennettern			No. (o. of Participants			
Thematic Area	Courses	Duration		Others			SC/ST		Grand
		(uays)	Male	Female	Total	Male	Female	Total	Total
Care and maintenance of farm machinery and									
implements									
WTO and IPR issues									
Management in farm animals									
Livestock feed and fodder production									
Household food security	1	2		15	15		10	10	25
Women and Child care									
Low cost and nutrient efficient diet designing									
Production and use of organic inputs									
Gender mainstreaming through SHGs									
Capacity building on training management									
PRA Training									
Repair & Maintenance of farm implements	1	2	16		16	10		10	26
Post Harvest Technique									
TOTAL	3	6	23	16	39	15	12	27	66

C) Consolidated table (On and Off Campus)

	No. of Courses Duration		No. of Participants						
Thematic Area	Courses	Duration		Others			SC/ST		Grand
		(days)	Male	Female	Total	Male	Female	Total	Total
(A) Farmers & Farm Women									
I Crop Production									
Weed Management									
Resource Conservation Technologies									
Cropping Systems	2	4	31	3	34		16	16	50
Crop Diversification	2	4	45		45	5		5	50
Integrated Farming									
Water management									
Seed production									
Nursery management									
Integrated Crop Management	2	4	41		41	9		9	50
Fodder production									
Production of organic inputs	1	2	25		25				25
II Horticulture				•					
a) Vegetable Crops									
Production of low volume and high value									
crops									
Off-season vegetables	3	6	19		19	56		56	75
Nursery raising									
Exotic vegetables like Broccoli									
Export potential vegetables	1	2		2	2	11	12	23	25
Grading and standardization									
Protective cultivation (Green Houses, Shade Net									
etc.)									
Short Duration vegetable crops									
b) Fruits									
Training and Pruning									
Layout and Management of Orchards									
Cultivation of Fruit	2	4	45	3	48	2		2	50
Management of young plants/orchards									
Rejuvenation of old orchards									
Export potential fruits	1	2	17		17	8		8	25
Micro irrigation systems of orchards									
Plant propagation techniques									
c) Ornamental Plants									
Nursery Management									
Management of potted plants									
Export potential of ornamental plants	1	2	16		16	9		9	25
Propagation techniques of Ornamental Plants									

No. of Countries Duration No. of Participants									
Thematic Area	Courses	Duration (days)		Others			SC/ST		Grand
		(uays)	Male	Female	Total	Male	Female	Total	Total
d) Plantation crops						-			
Production and Management technology	1	2	19		19	6		6	25
Processing and value addition									
e) Tuber crops		0	45		45	10		10	05
Production and Management technology	1	2	15		15	10		10	25
Processing and value addition									
T) Spices									
Production and Management technology									
Processing and value addition									
g) Medicinal and Aromatic Plants									
Nursery management									
Production and management technology									
Post narvest technology and value addition									
Soil fortility management									
Soli lertility management									
Soli and water Conservation									
Dra destion and eres of energie investo									
Management of Duchlangetic agile									
Management of Problematic soils									
Nicro nutrient deficiency in crops									
Nutrient Use Efficiency									
Soli and water resting									
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	1	2		21	21		4	4	25
and nutrition gardening	1	2		21	21		4	4	23
Design and development of low/minimum	1	2		25	25				25
cost diet	1	2		23	23				25
Designing and development for high nutrient									
efficiency diet									
Minimization of nutrient loss in processing	1	2		12	12		13	13	25
Gender mainstreaming through SHGs									
Storage loss minimization techniques									
Value addition	4	8		69	69		31	31	100
Income generation activities for empowerment	1	2		7	7		18	18	25
ot rural Women		_		· ·	· ·				
Location specific drudgery reduction	1	2		2	2		23	23	25
technologies		_		_					
Rural Crafts									
Women and child care									
VI Agril. Engineering									
Installation and maintenance of micro	1	2	25		25				25
irrigation systems	1	2	23		25				23
Use of Plastics in farming practices	2	4				33	17	50	50
Production of small tools and implements									
Repair and maintenance of farm machinery	4	8	21		21	79		79	100
and implements		0			- 1	,,,			100
Small scale processing and value addition									
Post Harvest Technology									
									1

	No. of				No. e	of Partic	cipants		
Thematic Area	Courses	Duration		Others			SC/ST		Grand
		(days)	Male	Female	Total	Male	Female	Total	Total
VII Plant Protection									
Interneted Dept Management	5	10	20	2	22	02	10	02	105
Integrated Disease Management	3	6	20	3	20	46	10	92	75
Rie control of posts and discoses	3	0	17	Q	29	40 25		25	50
Production of bio control agents and bio	2	4		0	25	25		25	- 50
nesticides									
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									
Figh processing and value addition									
IN Production of Inputs at site									
IX Production of inputs at site									
Seed Production									
Planting material production									
Bio-agents production									
Bio-pesticides production									
Bio-fertilizer production									
Vermi-compost production									
Organic manures production									
Production of fry and fingerlings									
Production of Bee-colonies and wax sheets									
Small tools and implements									
Production of livestock feed and fodder									
Production of Fish feed									
X Capacity Building and Group Dynamics									
Leadership development									
Group dynamics	1	2	21	-	21	4	-	4	25
Formation and Management of SHGs	1	2	24	-	24	1	-	1	25
Mobilization of social capital									
Entrepreneurial development of	1	2	25	-	25	-	-	-	25
Tarmers/youths									
W IO and IPR issues									
AI Agro-Iorestry									
Production technologies									
Nursery management									
Integrated Farming Systems									
XII Others (Pl. Specify)									
TOTAL	46	92	465	155	620	386	144	530	1150
(B) RURAL YOUTH									
Mushroom Production	1	2	-	25	25	-	-	-	25
Bee-keeping	1	4	13	2	15				15
Integrated farming		-							
Seed production	2	4	25		25	20	5	25	50
Production of organic inputs	1	2	11		11	14		14	25
Integrated Farming			1						
Planting material production			1						
Vermi-culture									
Sericulture									

	No. of Duration Others					of Partic			
Thematic Area	Courses	Duration		Others			SC/ST		Grand
		(days)	Male	Female	Total	Male	Female	Total	Total
Protected cultivation of vegetable crops	1	2	-	-	-	25	-	25	25
Commercial floriculture	1	2	24	-	24	1	-	1	25
Cultivation of fruits	1	2	2	-	2	23	-	23	25
Repair and maintenance of farm machinery									
and implements									
Nursery Management of Horticulture crops									
Training and pruning of orchards									
Value addition	2	4		23	23		27	27	50
Production of quality animal products									
Dairying									
Sheep and goat rearing									
Quail farming									
Piggery									
Rabbit farming									
Poultry production									
Ornamental fisheries									
Para vets									
Para extension workers									
Composite fish culture									
Freshwater prawn culture									
Shrimp farming									
Pearl culture									
Cold water fisheries									
Fish harvest and processing technology									
Fry and fingerling rearing									
Small scale processing and value addition	1	2	1		1	21	3	24	25
Post Harvest Technology	1	2	-		-	25	5	25	25
Tailoring and Stitching	1	2		4	4	23	21	23	25
Rural Crafts	1	2		5	5		20	20	25
TOTAL	14	30	76	59	135	129	76	205	340
© Extension Personnel	11	50	10	57	155	127	70	205	510
Productivity enhancement	1	2	16		16	2		2	18
Integrated Pest Management	1	2	7	1	8	5	2	7	15
Integrated Nutrient management	1	2	,	1	0		-	,	10
Rejuvenation of old orchards									
Protected cultivation technology									
Formation and Management of SHGs	1	2	-	12	12		3	3	15
Group Dynamics and farmers organization	1	2	5	7	12	1	2	3	15
Information networking among farmers		2		'	12		2		10
Capacity building for ICT application									
Care and maintenance of farm machinery and									
implements	2	4	31		31	11		11	42
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 SHCs									
Any other : Canacity building training & ELD	1	o	21	5	26	1		1	30
DDA Training		Ζ	21	5	20	4	-	4	
Papair & Maintenance			1						
Doot Horwest Training									
	o	14	00	40	120	22	17	40	160
IUIAL	0	10	00	40	120	23	1/	40	100

Details of training programmes as Annexure in the proforma given below

Date	Clientele	Title of the training	Duration	Venue	Numb	er of		Numb	er of SC/S	Т
		programme	in days	(OII / On Campus)	partic Mala	Ipants	Total	Mala	Famala	Total
02.04.09	E-marken /	Management of materiant		Campusj	Male	remaie	Total	wrate	remaie	Total
03.04.08 to	Farmer /	loss in food products	2	On		25	25	_	13	13
04.04.08	1 annwonnen	during cooking	2			25	25		15	15
07.04.08	-	Diseases & pest problems								
to		in cucurbitaceous crops	2	Off	10	6	25	7	2	10
08.04.08		and their suitable	2		19	0	25	/	5	10
08 04 08	-	controlling method								
08.04.08 to		cultivation	2	Off	25	_	25	25	_	25
09.04.08		Cultivation	2				25	20		25
17.04.08	1	Entrepreneurship								
to		development among the	2		25	-	25	-	-	-
18.04.08	-	farmers								
21.04.08		Use & maintenance of	2	0	25		25	10		10
to 22.04.08		tillage equipments	2	On	25	-	25	19	-	19
29.04.08	-	Backvard poultry & duck								
to		rearing for egg production	2	Off	-	25	25	-	10	10
30.04.08		2 221								
03.05.08	Rural Youth	Package and practices of								
to		drumstick	2	Off	25		25	25		25
14.05.08		Drew and in a filmer and								
15.05.08 to	Farmers and Farm Women	putritions diet by using	2	On		25	25	_	_	_
14.05.08	i ann women	locally available cereals	2			25	25		_	
16.05.08	-	Repair & maintenance of								
to		Pre-germinated paddy	2	Off	25	-	25	25	-	25
17.05.08	-	seeder								
19.05.08		Care & Management of	2	200		20	25			1
to 20.05.08		diary animals for optimum	2	OII	3	20	25	-		1
20.05.08	1	Package and practices of								
to		coconut	2	Off	22	3	25	-	-	-
22.05.08										
23.05.08		Preparation of value added								
to		products from mango,	2	On	-	25	25	-	-	-
24.05.08		jamun and jacktruit								
28.03.08		their management methods	2	On	25	0	25	7	0	7
29.05.08		then munugement methods	2				25	/		,
30.05.08	1	Operation & maintenance								
to		of transplanting guide &	2	On	25	-	25	13	-	13
31.05.08	-	conoweeder								
20.06.08		Operation, use &	2	Off	22	2	25	21	2	24
21.06.08		maintenance of Dai Mill	2	UII		5	23	21	5	24
25.06.08	+	Selection of suitable crops								
to		and fruit plants for	2	On	-	25	25	-	5	5
26.06.08		nutritional garden								
27.06.08		Tissue culture banana								
to		plantation	2	Off	25	-	25	8	-	8
28.06.08	4	Formation & management								
to		of farm science club	2	On	25	-	25	-	-	_
01.07.08							20			

			1							
03.07.08	Farmer / Farm	IPM against major pests of	2	Off	25	0	25	25	0	25
05.07.08	women	lice	2	OII	25	0	25	25	Ū	25
19.07.08	In-service	Care & maintenance of	2	0	1.5	0	1.5		0	
to 20.07.08		Tractor Drawn Machinery	2	On	15	0	15	I	0	1
24.07.08	Rural Youth	Improved variety of	2	Off	25		25	22		22
257.08	-	Papaya cultivation	Z	Oli	25		25	23		23
24.07.08		Embroidery work and								
25.07.08		clothes for income	2	On	-	25	25	-	21	21
		generation among SHG.								
22.08.08	Farmer/Farm	SRI method of cultivation	2	000	25	0	25	2	0	2
to 23.08.08	women		2	Оп	25	0	25	3	0	3
25.08.08	Farmer/Farm	Off season vegetable								
to	Women	cultivation	2	On	25		25	24		24
2688		Use of plastics in farming								
to		practices	2	Off	-	-	-	25		25
31.8.08										
04.09.08	In service	IPM in paddy	2	0	25		25			
05.09.08			2	Oli	23	-	23	-	-	-
15.09.08	Rural Youth	Seed Production								
to		techniques in paddy	2	On	25	-	25	7	-	7
17.09.08		Commercial Floriculture								
to			2	Off	25		25	1		1
18.09.08	P 1 P									
18.09.08	Farm and Farm	Management of Wilt in	2	Off	25		25	16		16
19.09.08	women	bi-control agents	2	OII	25		25	10		10
22.09.08		Commercial Floriculture	_					_		_
to 23.09.08			2	Off	25		25	9		9
22.09.08		Formation and								
to		management of SHG	2	Off	25	-	25	1	-	1
23.09.08		Disa hazad aranning								
20.09.08 to		system	2	Off	25	_	25	-	-	_
27.09.08										
300.08		Training on Training	2	0	25	F	20	4		4
01.10.08		Wanagement	2	On	23	3	50	4		4
21.10.08		Disease Management in								
to		vegetables seedling	2	Off	25		25	23		23
22.10.08		Package and practices of								
to		chilly	2	Off	25		25	6		6
25.10.08	D 111 1									
24.10.08	Rural Youth	Value addition in mushroom	2	Off		25	25		23	23
25.10.08		musinoom	2	OII		23	25		25	25
29.10.08		Post harvest technology of						a -		a -
to		rice	2	Off	-	-	-	25	-	25
30.10.08	-	Production of Organic								
to		inputs	2	Off	25	-	25	14	-	14
31.10.08	Earm / Earm	IDM against main =								
04.11.08 to	Women	brinial	2	On	25		25	7		7
05.11.08			_	011				ŕ		,

21.11.08 to 22.11.08	Farm / Farm Women	Repair and maintenance of axial flow thresher	2	On	3	-	3	22		22
26.11.08 to 27.11.08		Groundnut production technology	2	On	25	-	25	6	-	6
28.11.08 to 29.11.08		Package and practices of Papaya Cultivation	2	On	25		25	2		2
15.12.08 to 16.12.08		Biological control of pests of cole crops	2	Off	17	8	25			
22.12.08 to 23.12.08		Oilseed Production technology	2	On	25	-	25	5	-	5
30.12.08 to 31.12.08		Pulse Production technology	2	Off	25	-	25	-	-	-
05.01.09 to 06.01.09		IPM module in tomato	2	On	18	7	25	18	7	25
12.01.09 to 13.01.09	Rural Youth	Prevention technique on fruits and vegetables	2	Off		25	25		4	4
29.01.09 to 30.01.09	Farm / Farm Women	Off Season Vegetable Cultivation	2	On	25		25	7		7
30.01.09 to 31.01.09		Use of plastics in agriculture	2	On				8	17	25
30.01.09 to 31.01.09		Use of handy implements for farm women	2	On		25	25		23	23
16.02.09 to 17.02.09		IPM in groundnut	2	On	25		25	25		25
24.02.09 to 25.02.09	-	Composting techniques	2	Off	25	-	25	-	-	-
25.02.09 to 26.02.09	-	Production and management technology of tuber crops	2	Off	25		25	10		10
25.02.09 to 26.02.09		Value addition of fruits and vegetables	2	On		25	25		4	4
06.03.09 to 09.03.09	Rural Youth	Bee Keeping	4	On	13	2	15			
07.03.09 to 08.03.09	-	Hybrid vegetable cultivation	2	Off	11	14	25	11	12	23
09.03.09 to 10.03.09	In service personnel	Productivity enhancement of crops through water management	2	On	18	-	18	2	-	2
13.03.09 to 14.03.09		Operation, Use & Maintenance of Tractor Drawn Primary Tillage Implements	2	Off	16		16	10		10

16.03.09 to 17.03.09	Farm / Farm Women	Stem Borer Management in rice by bi-control agents	2	Off	25		25	25		25
18.03.09 to 19.03.09	Inservice Personnel	Storage grain pest management	2	Off	12	3	15	5	2	7
20.03.09 to 21.03.09		Group dynamics	2	On	6	9	15	1	2	3
23.03.09 To 24.03.09	Farmer / Farm Women	Maize based Cropping System	2	On	6	19	25	-	16	16
23.03.09 to 24.03.09		Use of Drip and Sprinkler Irrigation	2	Off	25		25	-	-	-
26.03.09 to 27.03.09	Rural Youth	Seed production techniques in paddy	2	Off	20	5	25	13	5	18
30.03.09 to 31.03.09	Inservice Personnel	Formation and Management of SHGs	2	On		15	15		3	3

(D) Vocational training programmes for Rural Youth

				No.	of Particip	ants	Self er	Number		
Crop / Enterprise	ldentified Thrust Area	Training title*	Duration (days)	Male	Female	Total	Type of units	Number of units	Number of persons employed	of persons employed else where
Drumstick	Hybrid vegetable cultivation	Package and practices of drumstick	2	25		25	-	-	-	-
Papaya	Hybrid vegetable cultivation	Improved variety of papaya cultivation	2	25		25	-	-	-	-
Commercial Floriculture	Marigold, tuberose, gladioli	Commercial floriculture	2	25		25	-	-	-	-
Bee keeping	Bee keeping	Bee keeping	4	13	2	15				

(E) Sponsored Training Programmes

				Durati	Client	No.	No. of Participants							
SI.	Title	Thematic	Month	Durau	DE/DV	of	Male		Femal	e	Total			Sponsoring
No	Inte	area	wionun	(davs)	/EF	cour	Othe	SC/S	Othe	SC/ST	Oth	SC/	Total	Agency
				(uays)	/121	ses	rs	Т	rs	30/31	ers	ST	Total	
1.	Acid Soil Management for higher production	Manage ment of Problema tic soils	Jan, 2009	1	PF	1	66	1	33	-	99	1	100	CA, OUAT
2	Scaling of water productivity in agriculture for livelihood	Water manage ment	March , 2009	7	PF	1	35	15	-	-	35	15	50	CA, OUAT
Tota	l	•		8		2	101	16	33	-	134	16	150	

Extension Activities	luncing	j activit		2 progra	innes					
Noture of Extension Astivity	No. of		Farmers	Farmers Extension Officials				Total		
Nature of Extension Activity	activities	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	11	420	128	548	12	0	12	432	128	560
Kisan Mela	3	119	91	210	8	2	10	127	93	220
Kisan Ghosthi	0	0	0	0	0	0	0	0	0	0
Exhibition	0	0	0	0	0	0	0	0	0	0
Film Show	6	305	70	375	0	0	0	305	70	375
Method Demonstrations	0	0	0	0	0	0	0	0	0	0
Farmers Seminar	0	0	0	0	0	0	0	0	0	0
Workshop	0	0	0	0	0	0	0	0	0	0
Group meetings	27	102	36	138	0	0	0	102	36	148
Lectures delivered as resource	0	0	0	0	0	0	0	0	0	0
Newspaper coverage	17	0	0	0	0	0	0	0	0	0
Redia talka	17	0	0	0	0	0	0	0	0	0
TV shows	22	0	0	0	0	0	0	0	0	0
I V SHOWS Bopular articles	9	0	0	0	0	0	0	0	0	0
Fopular afficies	0	0	0	0	0	0	0	0	0	0
A duisant Samiaas	0	0	0	0	0	0	0	0	0	0
Advisory Services	20	20	606	20	0	0	0	20	606	20
Earne are visit to KVV	247	1200	090	1949	0	0	0	1200	090	1949
Diagnostia visita	201	201	6	<u>201</u> 50	0	0	0	201	6	201
	20	44	0	100	2	0	0	44	0	102
Exposure visits	2	100	0	100	0	0	0	103	0	0
Soil health Comp	0	0	0	0	0	0	0	0	0	0
Animal Haalth Camp	0	0	0	0	0	0	0	0	0	0
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Agil mobile clime	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	10	255	15	270	0	0	0	255	15	270
Self Help Group Conveners	10	200	15	210	0	0	0	200	15	210
meetings	1	0	25	25	0	0	0	0	25	25
Mahila Mandals Conveners	0	0	0	0	0	0	0	0	0	0
Women in Agriculture Day	1	0	50	50	2	2	4	2	50	54
World food day colobration	1	60	0	50	<u>∠</u>	2	4	64	0	04 64
Althuaua trutiua colobration	1	50	11	100	4	0	4	61	11	102
	604	2042	41	4104	21	0	25	2074	41	102
10181	004	2343	1150	4101	31	4	33	23/4	1104	4130

3.4. Extension Activities (including activities of FLD programmes)

3.5 Production and supply of Technological products SEED MATERIALS

Category	Сгор	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS	Paddy	MTU-7029	680.7	10,63,253	Provided to OSSC for supply to farmers

SUMMARY

SI. No.	Сгор	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	680.7	10,63,253	
2	OILSEEDS			
3	PULSES			OSSC
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS			
	TOTAL	680.7	10,63,253	

PLANTING MATERIALS

SI. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
	Papaya	Chadha Selection	1300	9100	20
FRUITS					
	Drumstick	PKM-2	400	1200	6
	Brinjal	Utkal Keshari,	29200	5840	37
VECETABLES		Blue star,			
VEGETABLES		Madhuri, F1			
		Hybrid Shalin			
	Chilli	Utkal Rashmi	5250	1050	8
		Haladia Khadi			
	Tomato	Utkal Raja, Jyoti,	11500	2300	13
		Punjab Keshari,			
		Amar Yoti			
	Curli Flower	Barkha	2000	600	4
	Cabbage	Golden Acre	2000	600	2
	Elephan Foot Yam	Gajendra	2 quintal	3000	5
ORNAMENTAL					
CROPS					
Others (specify)					

	SUMMARY						
SI. No.	Сгор	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers			
1	FRUITS	1700	10300	26			
2	VEGETABLES	44700	9340	56			
3	SPICES	5250	1050	8			
4	TUBER CROPS	2	3000	5			
5	ORNAMENTAL CROPS						
6	PLANTATION CROPS						
	TOTAL	89945	41123	55			

	BIO PRODUCTS							
SI. No. Product Name Species Quantity Value (Rs.) Provided to								
			No	(kg)		No. of Farmers		
BIOAGENTS								
BIOFERTILIZERS								
BIO PESTICIDES								

	SUMMARY									
SI No	Due do et Menue	Species	Qua	ntity	Value (Bs.)	Provided to				
51. NO.	Froduct Name	opecies	No	(kg)	value (RS.)	Farmers				
1	BIOAGENTS									
2	BIO FERTILIZERS									
3	BIO PESTICIDE									
	TOTAL									

LIVESTOCK

SI. No.	Туре	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
Cattle						
Sheep and Goat						
Poultry	Chicks (21 days old)	Banaraja, Black rock, Kada Katha, CARI Gold	9600	-	3,36,000	SHG, Govt. Departments, NGOs
Fisheries	Advanced fingerling	IMC	2500	-	1750	
Others (Specify)						

	SUMMARY								
			Qua	ntity	Value				
SI. No.	Туре	Breed	Nos	Kgs	(Rs.)	Provided to No. of Farmers			
1	CATTLE								
2	SHEEP & GOAT								
3	POULTRY	Banaraja, Black rock, Kada Katha, CARI Gold	9600	-	3,36,000	SHG, Govt. Departments, NGOs			
4	FISHERIES	IMC	2500	-	1750				
5	OTHERS								
	TOTAL		12000	-	3,37,750				

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

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

KVK, MAURBHANJ NEWS LETTER

- Date of start- March. 2008
 Periodicity- Half yearly
 Number of copies distributed- 2000 nos.

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Efficiency of some newer insecticides	A. Sasmal	2
	and commercial neem formulations		
	against rice leaf hoppers		
	Evaluation of neem derivatives and		
	commercial neem formulations against		
	tissue borers of rice		
Technical reports	PRA Report, DPR for Model watershed,		
	Annual report and action plan		
News letters	KVK, MAURBHANJ NEWS LETTER-	Programme	02
	oriya (<i>BHANJABHUMI KRISHAK</i>	Coordinator	
	KATHA)		
Technical bulletins			
Popular articles			
Extension literature (Oriya)	Organic farming (Oriya)	Programme	450
		Coordinator	
Others (Pl. specify)			
TOTAL			02

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

U_) Details			
	S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
ſ	1.	VCD	Paddy reaper in English and oriya	01

(C) Details of Electronic Media Produced

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

- 1. Name of the farmer : Gorahari Mohanta
- 2. Address of the farmer:

Karanjia Baunsabilla Shamakhunta., Mayurbhanj Orissa **3. Contact details:** Mob. No.-09937606066



4. Details of farm: 4 nos of fish grow out pond of 1 ac. (each) alongwith stocking pond Dairy farming (5 nos of milch crossbred cows)

Poultry farming having synthetic bird (vanaraja & black rock) Apiary Horticultural and rice fields

- 5. Membership: Actively involve in Pani Panchayat, farmers' club
- 6. Names of the scheme: Assistant under state scheme of KSK (Krishi Sahayak Kendra)

7. Initial Status:

Gorahari, an unemployed rural youth having only traditional paddy cultivation and in habit rearing desi poultry birds

8. Technology/Good agricultural practices/ facilities/ benefits obtained with details:

- Scientific pisciculture and dairy farming-technology obtained from KVK
- Introduction of dual purpose colour bird "Vanaraja" for higher meat (2.5 kg in 4 months) and egg production (180 eggs annually)
- SRI method in paddy cultivation



9. Detail of results:

- Rearing of 125 nos of Vanaraja and Black rock poultry birds in 3 phases in last 6 months, he invested only Rs 4375/- towards chicks @ Rs 35/- per 21 days old chick and additional Rs 500/- for other miscellaneous expenditure. He got an amount of Rs 3500/- by selling only 28 nos of male birds
- At an average of 10-12q of fish production from ponds for 2 years
- 60q/ha in paddy cultivation investing only Rs.1350/- per ha this year
- 5-6 kg of honey from apiary investing only Rs. 4000/- once.this year

10. Marketing strategy: Though private/self due to proximity to the district headquarter i.e. urban area

11. Factors contributing to success:

- Vocational Training Programmes of KVK
- Front Line Demonstration of KVK
- Linkage with different line departments

13. Any other relevant information:

Awarded with best farmers for the district during OUAT foundation day celebration from Honourable Chief Minister on 24 th Aug. 2008

14. Diffusion of technology:

The success story was well propagated through print media and electronic media. The technology has transmitted through the SHG and farmers club, Govt. agencies and NGOs

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

Harvesting of Sabai grass (which is a very predominant crop in Mayurbhanj district) can be done by the farm machinery like self-propelled back pack cutter, attaching a circular blade with 80 teeth. The output of the machine is 1 acre/hr with fuel consumption of 1 litre/hr. Definitely the machine can reduce the drudgery among the farmers and it will also reduce the possibility of injury to hands during harvesting of the Sabai grass. The technology is demonstrated in farmer's fields of Baripada, Barasahi and Shamakhunta block.

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)

a) Value addition of Sabai Grass

The traditional practice of rural people of Mayurbhanj district on the value addition of Sabai grass by making ropes is identified by the KVK Scientist. The rope is prepared by knitting manually, rubbing between hands and finally they make it tight (compact) by means of a manual roller (prepared using a common by-cycle rim).

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

-Identification of courses for farmers/ farm women :PRA outputs. Group discussion, Observation -Rural Youth: PRA outputs, Secondary data

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-In-service personnel :Questionnaire, Brainstorming, Group Discussion

3.11 Field activities

- i. Number of villages adopted -5
- ii. No. of farm families selected -
- iii. No. of survey/PRA conducted -5
- **3.12.** Activities of Soil and Water Testing Laboratory : Not Available Status of establishment of Lab
- 1. Year of establishment
- 2. List of equipments purchased with amount :
- 3. Details of samples analyzed so far :

4.0 IMPACT : As the KVK is only of two & half years the impact analysis is not done.

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

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

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

5.0 LINKAGES

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage			
1.Department of agriculture, Govt. of Orissa	Forward and backward technical linkage like			
	passing advanced researches and receiving			
	feedbacks. Input supply and field demonstrations			
2.Department of horticulture, Govt. of Orissa	-do-			
3.Department of soil conservation, Govt. of	-do-			
4 Department of enimal resource development	do			
Govt. of Orissa	-00-			
5.Department of fishery, Govt. of Orissa	-do-			
6.Department of forestry, Govt. of Orissa	-do-			
7.Seed certification office, Govt. of Orissa	Seed and seedling production programme			
8.Orissa state seed corporation	-do-			
9.Central Rice Research Institute, Cuttack	Technical support and procuring recently released seeds			
10.Central Avian Research Institute,	Technical support and collection of synthetic			
Bhubaneswar	chicks			
11.Central Institute Of Fresh Water Aquaculture,	Technical support and supply of fingerlings			
Bhubaneswar				
12.ATMA, Mayurbhanj	Serving as resource person and conducting OFT			
	& demonstration with collaborative mode			
13.District and local administration	Administrative support			
14.Banks and MRT division of SBI	Market led extension			
15.Women and child development department	Extension through SHG			

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.)
R.S.V.Y, Mayurbhanj (Poultry	Jan, 2007 and		
Brooding house for Banaraja chicks of	completed on Nov,	Mayurbhani	5,00,000/-
1000 sq.ft. area)	2007	Mayurbhanj	
NREGS scheme, Mayurbhanj	March, 2009	אחפח	
(Renovation of two old ponds and two		Moyurbhani	5,00,000/-
fingerling & yearling production unit		Mayurbrianj	
Model watershed project	Dec., 2008	ICRISAT	-

5.3 Details of linkage with ATMA

S. No.	Programme	Nature of linkage	Remarks
1.	Formulation of SREP	Providing service as a resource person and implementation & joint diagnostic survey	
2.	Programme Planning	Participation in Governing body and working committee member	
3	OFFICIATING	Acting as Deputy Project Director (Technical)	
4	On farm research	Implementation	

a) Is ATMA implemented in your district : Yes

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	Programme Planning	Members in District steering committee	
2	Resource person	In different trainings and demonstrations	

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)**

		Voar		Deta	Details of production			Amount (Rs.)		
SI. No.	Demo Unit	of estt.	Area	Variety	Produce	Qty.	Cost of inputs	Gross income	Remarks	
1	Poultry	2007	-	Banaraja and Black Rock	21 day old chicks	9600		336000		
2	Vermi compost	2008								
3	Shade net	2007								
4	Poly house	2007								
5	Organic model farm	2008								
5	Medicinal units	2008								
6	Azolla									
7	Fishery	2008			Advanced fingerling	2500		1750		
8	Nutritional garden	2007			Vegetables			1760		
9	Mushroom	2008		Oyster	Mushroom	6.5		325		

6.2 Performance of instructional farm (Crops) including seed production

Name of Date of		Data of m		Details of p	roduction		Amount (Rs.)		Pomo
the crop	sowing	harvest	Area (ha)	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	rks
Cereals		•	•				•		-
Paddy	27.06.08	25.11.09	18	Swarna	Seed (F)	680q		10,63,253	
Pulses									
Spices & Pla	antation crops	•	•			•			
Banana									
Floriculture	1	-	1		1	l		1	
Marigold									
Fruit crops		·	·		·	·		•	
Papaya				Chadha selection-1	Seedling	1300		9100	
Papaya									
Drumstick				PKM-2	Seedling	400		1200	
Vegetables									
Brinjal			- I	Bluestar	Seedling	29200		5840	
				Utkal Keshari					
				Madhuri		_			_
				F1 hybrid					
Tomato			-	Punjab Keshari	Seedling	11500		2300	
				Utlal Jyoti					
				Utkal raja					
				Amar jyoti					
Chilli			- 1	Utkal rasmi	Seedling	5250		1050	
				Haladikhadi					
Cabbage			(Golden acre	Seedling	2000		600	
Elephant foot yam				Gajendra	Seedling	2 q		3000	

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

SI.	Name of the		Amou		
No.	Product	Qty	Cost of inputs	Gross income	Remarks
1					

6.4 Performance of instructional farm (livestock and fisheries production)

SI.	Name	Det	tails of production		Am	Amount (Rs.)	
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Poultry	Banaraja	21 day old chick	9600		336000	
2	Fisheries	IMC	Advanced fingerling	2500	-	1750	

6.5 Utilization of hostel facilities:

Accommodation available (No. of beds) : NA

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account Name bank		of the		Location	Account Number
KVK Contingency	State India	Bank	of	Shamakhunta	11600031037
Revolving fund	State India	Bank	of	Shamakhunta	30490126394

7.2 Utilization of funds under FLD on Oilseed (KHARIF, 2008 & Rabi, 2008-09)

Itom	Released by ICAR		Expe	nditure	Unspent balance as on
Item	Kharif	Rabi	Kharif	Rabi	1 st April 2009
Inputs				11983	
Extension				1750	
activities					
TA/DA/POL etc.				1750	
TOTAL				15483	Nil

7.3 Utilization of funds under FLD on Pulses (KHARIF, 2008 & Rabi, 2008-09)

	Released by ICAR		Exp	enditure	Unspent balance
Item	Kharif	Rabi	Kharif	Rabi	as on 1 st April 2009
Inputs			3626	8555	
Extension			520	1270	
activities					
TA/DA/POL etc.			786	1965	
TOTAL			4932	11790	Nil

S. No.	Particulars	Sanctioned	Released	Expenditure			
A. Recurring Contingencies							
1	Pay & Allowances	2700000	-	2700000			
2	Traveling allowances	100000	100000	100000			
3	Contingencies	1	I	1			
A	Stationery, telephone, postage and other expenditure on	236850	2366850	89446			
	office running, publication of Newsletter and library						
D	maintenance (Purchase of News Paper & Magazines)			147404			
B	POL, repair of vehicles, tractor and equipments			147404			
C	Means/retreshment for trainees (centing upto			121520			
	Rs.40/day/trainee be maintained)			151550			
	including chemicals etc. required for conducting the training)			51014			
Ε	Frontline demonstration except oilseeds and pulses			86402			
	(minimum of 30 demonstration in a year)			32218 (O & P)			
F	On farm testing (on need based, location specific and newly			25.004			
	generated information in the major production systems of the area)			27494			
G	Training of extension functionaries			12455			
H	Maintenance of buildings			5888/			
	Library	425000	400000	-			
J		425000	400000				
101AL (A) 3401030 3430050 34300							
B. NO	n-Recurring Contingencies						
I	Works	200000	-	2000000			
2	Equipments including SWTL & Furniture	6500000	650000	649700			
3	Vehicle (Four wheeler/Two wheeler, please specify)						
4	Library (Purchase of assets like books & journals)						
	TOTAL (B)	6500000	650000	2649700			
C. REVOLVING FUND							
GRAN	ID TOTAL (A+B+C)			6086550			

7.5 (A) Utilization of KVK funds during the financial year 2008-09

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2006 to March 2007	64000	582638	242384	31616
April 2007 to March 2008	31616	1027631	628607	196520
April 2008 to March 2009	19652	1063253	1148196	409633

8.0 Please include information, which has not been reflected above

8.1 Constraints

- (a) Administrative- Filling of vacant post SMS, Accountant / Superintendent, Driver
- (b) Financial- Inadequate Meal Cost of Trainees, Funds for Infrastructure (Compound Wall, Training Hall, Irrigation facility)
- (c) Technical Soil and biological laboratory is required, non- availability of sophisticated A.V. aids.

Signature of Programme Coordinator