ANNUAL PROGRESS REPORT 2006-07

CONTENTS

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Taralabalu Krishi Vigyan Kendra Kesarivana, Opp.: PG Centre, Tholahunase Davanagere – 577 002	08192 - 294568	--	tkvk@taralabalu.org

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

Address	Telephone		E mail
	Office	FAX	
Taralabalu Rural Development Foundation (TRDF), Sirigere –577541, Chitradurga District Karnataka	08194 – 268829 268842	08194 – 268847	trdf@taralabalu.org

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Devaraja T.N	--	94482 52673	tndevaraj@gmail.com

1.4. Year of sanction: 2004

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

Sl. No	Name of the Staff Member	Designation	Pay Scale	Date of joining	Permanent/ Temporary	Category (SC/ST/ OBC/ Others)
I	**SCIENTIFIC POSTS**					
1.	Dr.T.N. Devaraja	Programme Coordinator	10000-325-15300	17.05.2005	Permanent	Others
	Subject Matter Specialists					
2.	Dr.G.R.Rajakumar	SMS (Soil Science)	8000-275-13500	01.06.2005	Permanent	Others
3.	Dr. Roopa S.Patil	SMS (Plant Protection)	8000-275-13500	01.06.2005	Permanent	Others
4.	Mr. Basavanagowda M.G	SMS (Horticulture)	8000-275-13500	21.11.2006	Permanent	Others
5.	Vacant	SMS (Agril. Extension)	8000-275-13500	---	---	
6.	Vacant	SMS (Agronomy)	8000-275-13500	---	---	
7.	Vacant	SMS (Veterinary)	8000-275-13500	---	---	
II	**PROGRAMME ASSISTANTS**					
8.	Mr. B. O. Mallikarjuna	Farm Manager	5500-175-9000	01.06.2005	Permanent	Others
9.	Ms. Kavitha. P.	Home Science	5500-175-9000	01.06.2005	Permanent	OBC
10.	Ms. Mamatha R. Halagola	Computer Science	5500-175-9000	01.06.2005	Permanent	Others

III	**ADMINISTRATIVE POSTS**					
11.	Mr. Mallikarjuna S. G.	Office Superintendent-Cum-Accountant	5500-175-9000	01.06.2005	Permanent	OBC
12.	Smt.Mamatha H. Melmalagi	Stenographer-Cum- Computer Operator	4000-100-6000	27.06.2005	Permanent	Others
IV.	**SUPPORTING POSTS**					
13.	Mr. B. Shivakumara	Office Attendant	2550-3200	01.06.2005	Permanent	Others
14.	Mr. S. E. Shivakumara	Field Attendant	2550-3200	01.06.2005	Permanent	Others
V.	**AUXILIARY POSTS**					
15.	Mr. N. M. Marulasiddaiah	Driver-Cum-Mechanic	3050-4590	01.06.2005	Permanent	Others
16.	Mr. S. Shivakumara	Driver-Cum-Mechanic	3050-4590	01.06.2005	Permanent	Others

1.6. Total land with KVK (in ha) : 15.00

S. No.	Item	Area (ha)
1	Under Buildings	1.75
2.	Under Demonstration Units	0.25
3.	Under Crops	8.0
4.	Orchard/Agro-forestry	5.0
5.	Others	--
Total Land		**15.00**

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq. m)	Expenditure (Rs. Lakhs)	Starting Date	Plinth area (Sq. m)	Status of construction
1.	Administrative Building	ICAR	--	550	29.37	22-01-2007	--	Completed except electrification, floor polishing and painting
2.	Farmers Hostel	ICAR	--	300	18.82	15-04-2007	300	
3.	Staff Quarters (6)	ICAR	--	400	19.40	13-02-2007	400	
4.	Demonstration Units (2)	ICAR	20-03-2007	160	6.41	--	--	--
5	Fencing	--	--	--	--	--	--	--
6	Rain Water Harvesting System	--	--	--	--	--	--	--
7	Threshing Floor	--	--	--	--	--	--	--
8	Farm Godown	--	--	--	--	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tempo Cruiser	2005	4,99,250	33,725	Good
Hero Honda CD Deluxe	2006	39,298	11,250	Good
Tractor and Trailer	2005	4,99,995	590 hours	Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Xerox Machine	2006	73,840	Good
Digital Camera	2006	19,900	Good
Over Head Projector	2006	19,935	Good
TV with DVD Player	2006	11,350	Good
Computer + LCD	2006	1,00,000	Good
Refrigerator (LG)	2007	10,000	Good
Mixer	2005	3,300	Good

1.8. Details SAC meeting conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	March 14th 2007	11	--	--

Recommendations and Action taken report of SAC meeting on March 14th 2007

Sl.No	Major Recommendations	Action taken
1	Work on ICT system in one village of each GP in the district	Discussion on Collaborative work with Grameena Mahiti Parishath, Davanagere is in progress.
2	Conduct PRA in a particular area and have research in extension	Conducted PRA at Mallenahalli village of Davanagere Taluk
3	Work on poultry sector particularly on health and hygiene	Work to be initiated.
4	Supply of bio-fertilizers and bio-control agents to farmers should be made	The project plans are prepared and draft improvement is in progress upon the remarks of Project Processing Unit, DBT.
5	FLDs on Organic farming should be conducted	Works are initiated in selected farmer fields with an integrated approach particularly in paddy. Specific guidelines for FLDs on organic farming are required. Farmers demand higher price for organic produce.
6	Trainings on processing / value addition in horticulture crops should be planned	Conducted trainings on grading and processing of horticulture produce such as tomato, brinjal, onion, and papaya at Devarahalli, Arundi, Nyamathi and Chigateri.
7	Evaluation on KVK activities conducted should be made	Impact studies on KVK activities need to be conducted at least after two years from now.
8	Trainings to scientists of KVK for updates should be planned	Planned and participated in several trainers training programs (Table appended on HRD List)
9	Popularization of new sugarcane variety resistant to woolly aphid	Seeds of sugarcane variety CO-VC 2003- 165 resistant to woolly aphid is obtained from Agriculture Research Station, VC Farm, Mandya by Davanagere sugars, Kukkawada in turn is distributed to TKVK Farm; We have also adopted a few FLD farmers for multiplication.
10	Parthenium eradication should be popularized through CD shows	Conducted training programme along with CD show at Ramagondanahalli of Davanagere Taluk
11	Quality seed selection guidance to farmers should be given	Training conducted on Maize, Ragi, Redgram, Sugarcane, Groundnut and paddy cultivation in collaboration with line departments.
12	Documentation of activities through voice recording of farmers opinion should be made	TV recording of farmer interviews have been organized by TKVK and telecasted by E-TV Annadata program.

2. DETAILS OF DISTRICT (2006-07)

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

S. No	Farming system / enterprise
1	**Rainfed :** **Kharif -** Ragi, Maize, Sorghum, Minor millets, Red gram, Green gram, Groundnut, Sunflower, Cotton, Vegetables **Rabi** - Bengal gram, Sunflower, Sorghum, Groundnut **Fruit and Plantation Crops** - Coconut, Mango, Sapota
2	**Irrigation (33%):** **Flood irrigation:** Paddy, Maize, Groundnut, Sugarcane, Arecanut, Vegetables **Drip irrigation:** Arecanut, Coconut, Pomegranate, Papaya, Sapota, Banana, Betel vine
3	**Enterprise:** Poultry, Fishery, Dairy, Vermicomposting, Mushroom and Sericulture

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

The Taralabalu Krishi Vigyan Kendra is situated in Davanagere district. The district occupies a total geographical area of 5913.4 sq. km. It is spread over 6 taluks, 35 hoblies and 232 Gram Panchayaths. According to 2001 censes, the district comprises total population is 17,90,952, out of which 9,17,705 are male and 8,73,247 are female. The district is primarily agrarian in character and more than 75% of its population depending directly / indirectly on agriculture for their livelihood.

Davanagere district is at center of the state and lies in between latitude of the 75^0.30' and 76^0.30' and longitude of 13^0.45' and 14^0.50'. The average rainfall of the district is 644 mm. The variety of soil is medium to deep black and red sandy loam. The district is essentially kharif region and Rabi crops will be taken up with the help of irrigation from Bhadra canal, the district comprises of three agro climatic zones of Karnataka Viz., one taluk in Northern dry zone (Zone-III).

S. No	Agro-climatic Zone	Characteristics
1	Northern Dry Zone (Zone III)	The zone comprises Harapanahalli Tq. of Davanagere district. Major soil types of the zone are black and red soils. The main crops growing in the zone are Ragi, Maize, Jowar, Onion, Chilli, Sunflower and Minner millets, Coconut, Mango and Pomegranate.
2	Central Dry Zone (Zone IV)	Jagalur, Harihara and Davanagere Taluks come under Zone IV. We find red sandy soil mixed with clayey soil land patches of black soil in the zone. Major crops include Maize, Paddy, Jowar, Sunflower, Sugarcane, Ragi, Minor millets, Vegetables, Coconut, Arecanut, Betelvine, Groundnut, and Pomegranate.
3	Southern transitional Zone (Zone VII)	Southern transitional zone includes Channagiri and Honnali taluks. The dominating soil types found are red sandy soil and black cotton soil. Major crops growing the zone are Maize, Paddy, Ragi, Cotton, Chilli, Jowar, Groundnut, Arecanut, Coconut, Mango and other Commercial crops.

S. No	Agro ecological situation	Characteristics
1	Southern Plateau and Hills	Typical semi-arid zone; about 80 % of the area falls under rainfed farming; Cropping intensity is very low. Soils are shallow and medium, loamy red; major crops are paddy, maize, sugarcane, arecanut, coconut and millets.

2.3 Soil types

S. No	Soil type	Characteristics	Area in ha
1	Red Sandy Soil (Harihara, Channagiri, Jagalur, Davanagere Tq.)	• Low water holding capacity • Neutral p^H • Low Nitrogen content • Medium in Phosphorus and Potash	1, 26,000
2	Deep to Medium Deep Black Soil (Jagalur, Davanagere, Harapanahalli)	• High water holding capacity • Neutral to Alkaline p^H • Medium in Nitrogen and Phosphorus • High Potassium	54,000
3	Mixed Red and Black Soil (Honnali, Jagalur, Harapanahalli)	• Medium water holding capacity • Neutral p^H • Medium in Nitrogen, Phosphorus and Potassium content	1, 62,000
4	Sandy Loam Soil (Harapanahalli, Davanagere)	• Poor water holding capacity • Neutral p^H • Deficient in Nitrogen, Phosphorus and Potassium	18,000
Total			**3, 60,000**

2.4. a) Area, Production and Productivity of major crops cultivated in the district (2006-07)

S. No	Crop	Area (ha)		Production (q)		Productivity (q /ha)	
		Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated
1	Paddy	60000	60398	3254000	3327930	55.1	54.2
2	Jowar	22000	24666	464200	237520	9.6	21.1
3	Maize	166500	183546	6721000	2976280	16.2	40.3
4	Ragi	18000	12106	374200	140430	11.6	20.7
5	Red gram	10000	7337	84900	52290	7.1	8.4
6	Groundnut	20000	7725	229000	50770	6.5	11.4
7	Sunflower	9200	7608	65100	27280	3.5	7.0
8	Sugarcane	4500	8602	5625000	9462200	1100	1250
9	Cotton	6000	4721	8118 bales	5190 bales	187 kg lint / ha	230 kg lint / ha

2.4. b) Area, Production and Productivity of horticulture crops cultivated in the district (2006-07)

Sl.No	Crop	Area	Production (q)	Productivity (q / ha)
1	Mango	3103	317900	102
2	Banana	1184	324330	273.9
3	Sapota	795	83730	105.3
4	Citrus	676	125660	185.8
5	Papaya	225	181620	807.2
6	Arecanut	27136	369000	13.5
7	Coconut	12839	14840	1.1 copra
8	Betel vine	476	105480	221.5
9	Tomato	2058	491400	238.7
10	Brinjal	615	153950	250.3
11	Chilli	1212	143010	118
12	Beans	109	10920	100.1
13	Onion	4686	937290	200.0
14	Bhendi	370	28480	77
15	Watermelon	775	273120	352.4
16	Crosandra	65	3260	50.1
17	Marrigold	261	26160	100.2
18	Jasmine	375	25470	69.7
19	Chrysanthamum	679	101820	149.9
20	Rose	38	770	20.2

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	7.20 hr	14.20 hr
October	36.9	34	21	84.5	68.8
November	80.6	30	23	90.5	76.4
December	0	29	20	93.4	76.9
January	0	33	26	76.0	66.9
February	0	36	25	76.0	66.0
March	4.8	37	28	63.5	52.0
April	36.1	36	28	81.8	60.6
May	77.9	33	24	84.4	65.3
June	121.6	35	27	86.8	69.0
July	105	30	24	86.8	73.7
August	126.2	34	23	85.6	75.4
September	**162.6**	32	25	88.8	75.3
Total	**751.7**				

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

Category	Population	Production	Productivity
Cattle			
Crossbred	74099	--	--
Indigenous	277221	--	--
Buffalo	220470	--	--
Sheep			
Crossbred	120	--	--
Indigenous	205218	--	--
Goats	113329	--	--
Pigs			
Indigenous	3100	--	--
Rabbits	106	--	--
Total	1527449		
Category	**Area**	**Production**	**Productivity**
Fish	--	5682.32 MT	500kg/ha

2.7 Details of Operational area / Villages

Sl. No.	Taluks	Name of the block	Name of the villages	Major crops & enterprises being practiced	Major problems identified	Identified Thrust Areas
1	2	3	4	5	6	7
1	Davanagere	Block - 1	**Cluster 1:** Kurki Tholahunase Mallenahalli Ramagondanahalli Kadajji **Cluster 2:** Aluru Mellekattae Anaji Haluvarthy	Ground nut Sunflower Potato	Poor management practices, bud necrosis and BHC Mono cropping	Nutrient management Integrated pest management Crop rotation
				Ragi, Maize Redgram Bengal gram	Local Varieties High seed rate Erratic rainfall	Inter cropping HYV Recommended seed rate
					Drudgery of farm women in farm & house hold Loss of grains/produce due to poor storage Wilting and pod borer	Drudgery reducing measures in farm & house hold Safe storage measures HYV, IPM
				Dry land horticulture	No diversification in farming system	Promotion of fruit crops in dry land
				SHGs	Poor nutrition, no value addition	Family nutrition management, promotion of nutritional kitchen garden, post harvest technology to add value to the farm produce
				Sugarcane Paddy	Woolly aphid, narrow spacing, improper water management , trash burning, micronutrient deficiency , incidence of red rot and use of low yielding varieties Scarcity of water, micronutrient deficiency, Severe infestation of BPH	Integrated management of woolly aphid, management of red rot, recycling of crop wastes & nutrient management, paired row system of planting and popularization of resistant variety Aerobic rice cultivation and water management IPM Nutrient management

1	2	3	4	5	6	7
2	Harapanahalli	Block - 2	**Cluster 3:** Chigateri Anajigere Budihal and Nandikamba	Cotton	Improper spacing and nutrient management, pest & diseases	Integrated Crop Management
3	Channagiri	Block - 3	**Cluster 4:** Siddanamata Kerebilichi Devarahalli Basavapatna	Ragi	Local Varieties High seed rate	Inter cropping, HYV, Rec. seed rate
				Mango	Wilting of mango trees due to stem borer and secondary infection of fungal diseases	Insect management
				Tomato Onion Brinjal French bean Cauliflower,	Leaf curl Improper nutrient management Improper pest and disease management Heavy incidence of DBM	TLCV sankranti , HYV Arka kalayan, IPM HYV Arka suvida, IPM
				Arecanut	Button shedding and infestation of mites	Micronutrient management IPM,
				Coconut	Low yield due to poor nutrient management	IPM, nutrient management
4	Harihara	Block -4	**Cluster 5:** Karlahalli, Deeturu Kenchenahalli	Paddy, Maize	Several hectrage areas are non cultivable and unsuitable for field crops: Stagnated average annual income among majority of farm families	Integrated Inland pond aquaculture
5	Honnali	Block – 5	**Cluster 6:** Arundi, honnali Govinakovi Cheelur Kadadhakatte	Onion, Maize, Paddy, Vegetables	Purple blotch in onion, BPH and blast in paddy, damping of in vegetable nursery beds, stem borer and downy mildew in maize	Use of portrays and raised seed bed method, Use of disease resistant varieties and IPM.
6	Jagalur	Block – 6	**Cluster 7:** Kechchenahalli Chikkabantanahalli Jammapura	Maize, Ragi, Bengal gram, Groundnut, Sunflower, Pomegranate	Pest and diseases, Low yield, Drudgery of farm women in farm & house hold Loss of grains/produce due to poor storage	Drudgery reducing measures in farm & house hold Safe storage measures, Dry land horticulture, HYV, INM and IPM

2.8 Priority thrust areas

S. No	Thrust areas
1	Popularization of HYV/ Composite varieties / hybrids and Integrated Nutrient Management in Maize, Paddy, Ragi, Groundnut, Sugarcane, Coconut and Arecanut
2	Insect Pest and Disease Management in Paddy, Red gram, Bengal gram, Onion, Cotton, Tomato, Brinjal and Sugarcane
3	Integrated Crop Management in Sunflower and Groundnut
4	Soil fertility management through STFR in major crops (Maize, Cotton, Tomato, Onion)
5	Nursery management in horticulture crops (Tomato, Brinjal)
6	Family nutrition management (Low cost diet, Kitchen garden)
7	Enrichment and value addition to cereals, pulses, vegetables and fruits (Maize, Ragi, Soy bean)
8	Drudgery reduction for farm women (Groundnut Stripper and Decorticator)
9	Integrated inland fish farming (+Horti + Silvi + Vermi)

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6 + 3	6	23 + 30	23	12 + 13	12	176 +151	184

Training				Extension Activities			
3				4			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
200	181	2500	5354	200	960	5000	16497

Seed Production		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Red gram JS-1: 2 q.	1.6 q.	Drumstick: 500	500
Sugarcane setts CO86032	9 tons		
Fish fingerlings: 16000	20000 No.		

3.B. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials
1	Fish Culture, Fish feeding management	Fish	Non existence of pond fish polyculture	--	Integrated fish poly culture in inland ponds	Inland integrated fish aquaculture	Inland fish aquaculture	Group discussion, field visits, method demonstrations	Fish fingerlings
			Expensive feed ingredients increased cost of culture	Modified feeding in inland pond culture	--	Inland fish aquaculture	Inland fish aquaculture	Group discussion, field visits, method demonstration	Rice bran, soy flour, vitamin mineral mix, maize flour
2	Clean Milk Production	Dairy	Unhygienic milk production, Low yield	--	--	Clean milk production	--	Film show, method demonstrations, handouts, brouchers, posters, charts,	Handouts, posters and charts
3	HYV, INM, IPM, IDM, Drudgery reduction	Ragi	Low yield due to use of local varieties	--	Introduction of high yielding variety and intercropping	Production technology in Ragi, Value addition in Ragi and preparation of Ragi Malt, Production technology in red gram	Pest and disease management in pulse crops	Farmers consultancy, field visits	Ragi – GPU 48 seeds Redgram seeds – JS 1
		Maize	Low yield potential of soils	--	Integrated Nutrient Management	Integrated Nutrient Management	Integrated Nutrient Management	Group discussions and field visits	$ZnSO_4$, Azospirilum
		Paddy	Micro nutrient deficiency	Use of Copper Ore Tailings (COT) for correction of micro nutrient deficiencies in paddy	--	Nutrient Management	--	Group discussions and field visits	Copper Ore Tailings powder
			Infestation of Brown Plant Hopper	--	Integrated Pest Management	Plant protection measures	--	Group discussions and field visits	Imidacloprid, Neem pesticide
		Sunflower	Poor seed setting	Pollination studies	--	Pest and disease management	Pest and disease management in oilseed crops	Survey, farmers meeting, Krishi Mela	*Apis mellifera* bee colonies Boron Endosulfan
			Low yield potential of soils	--	Integrated Nutrient Management	Integrated Nutrient Management	Integrated Nutrient Management	Group discussions and field visits	MOP, Boron, $ZnSO_4$ Azospirilum

		Groundnut	Low yield	--	ICM	ICM	Improved cultivation in oilseed crops	Farmers consultancy, field visits	*Rhizobium*, Chlorpyrifos, *Trichoderma*, Gypsum, Carbendazim, Monocrotophos
			Low yield potential of soils	--	Integrated Nutrient Management	Integrated Nutrient Management	Integrated Nutrient Management	Group discussions, field visits and field day	MOP, Gypsum, Rhizobium
			Drudgery in separating pods from the plant	--	Demonstration of groundnut stripper	Demonstration of groundnut stripper	--	Group discussion, method demonstrations, Field visits	Supply of groundnut stripper
			Drudgery in separating seeds from the pods	--	Demonstration of groundnut Decorticator	Demonstration of groundnut Decorticator	--	Group discussion, method demonstrations, Field visits	Supply of groundnut Decorticator
		Bengal gram	Incidence of pod borer and wilt	--	Integrated Pest Management	IPM and role of pheromone traps	Pest and disease management in pulse crops	Scientific field visits, survey, method demonstrations,	Coriander seeds, *Trichoderma* PSB, *Rhizobium*, Pheromone traps , Neem pesticide
		Cotton	Flower dropping Bollworms	--	ICM	ICM, IPM practices in Bt cotton, Role of pheromone traps	ICM	Group discussions, field visits and field day	Bt seeds Trap crop Bendi Zimag Planofix Pheromone traps Neem pesticide Profenophos
		Sugarcane	Leaf reddening	Control of leaf reddening in cotton	--	Nutrient Management	--	Group discussions and field visits	$MgSO_4$
			Micro nutrient deficiency	Use of COT for correction of micro nutrient deficiencies in Sugarcane	--	Nutrient Management	--	Group discussions and field visits	Copper Ore Tailings powder
			Infestation of Woolly aphid	--	Integrated Pest Management	Biological control of woolly aphid	--	Scientific field visits, survey, method demonstrations, collaboration with ARS Kattalagere	*Micromus* predator Malathion
		Onion	Incidence of purple blotch disease	Purple blotch management	--	Pest and disease management	--	Field visits, method demonstrations, Interaction with IIHR scientists	*Trichoderma* Hexaconazole
4	Saline Soil Management	Wheat	Salinity	--	Use of saline tolerant wheat variety DWR-39	Management of saline soils	Management of saline soils	Group discussions and field visits	Wheat seeds and Gypsum

3.1 Achievements on technologies assessed and refined

A. Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Fish	Irrigated	Expensive feed ingredients which increase cost of production	Modified feeding in inland pond fish production	2	**Farmers practice:** Feeding 1:1 mixing of rice bran and groundnut oil cake [GOC]	Growth and yield	400 g at 8 months, 3.4 t / ha	Refined practice performed better than the traditional practice and resulted in higher yield	Farmers have realized the importance of scientific alternative feeding practices along with vitamin – mineral mixture in feed for better growth	Rice bran, Groundnut oil cake, soy and maize flour and vitamin mineral mixture used as feed ingredients.	More plant based proteinaceous products along with Vitamin-mineral mixture makes feed complete and supports faster growth; better FCR.
					Recommended Practice: Fish meal is recommended as a major protein ingredient: Since the material is expensive and not easily available, hence refined.		800 g at 8 months, 4.2 t /ha				
					Refined practice: Rice bran, Groundnut oil cake, soy and maize flour and vitamin mineral mix						

Technology Assessed / Refined	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice assessed: Feeding 1:1 mixing of rice bran and groundnut oil cake [GOC]	3.4 t / ha	29835	1.78
Technology refined : Rice bran (50%), Groundnut oil cake (8%), soy flour (1%) and maize flour (40%) and vitamin mineral mixture (1%)	4.2 t / ha	43835	2.09

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

1) Title of on-farm trials : Modified feeding in inland pond culture
2) Problem diagnose : Expensive feed ingredients increased cost of production
3) Details of technologies selected for refinement: Rice bran (50%), Groundnut oil cake (8%), soy flour (1%) and maize flour (40%) and vitamin mineral mixture (1%) as feed ingredients.
4) Source of technology : College of fisheries, Mangalore
5) Production system and thematic area : Irrigated system, Fish Polyculture
6) Performance of the Technology with performance indicators:
   - Refined practice performed better than the traditional practice and resulted in higher yield
   - Feeding 1:1 mixing of rice bran and groundnut oil cake [GOC]; 3.4 t / ha; 1.78
   - Rice bran, Groundnut oil cake, soy and maize flour and vitamin mineral mixture; 4.2 t / ha; 2.09
7) Final recommendation for micro level situation: Rice bran (50%), Groundnut oil cake (8%), soy flour (1%) and maize flour (40%) and vitamin mineral mixture (1%)
8) Constraints identified and feedback for research: Increased number of research trials on conventional feed ingredients with feed supplements need to be carried out.
9) Process of farmers participation and their reaction:
   - Group discussions and trainings; Method demonstrations and field visits; Farmers have realized the importance of scientific alternative feeding practices along with vitamin – mineral mixture in feed for better growth

Taralabalu KVK, Davanagere

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Irrigated	Micro nutrient deficiency (Zn-thin stems, reduced tillers Fe, S – yellowing , Mn - dead spots on leaves, Cu, Ca – tip drying)	Use of COT for correction of micronutrient deficiency in Paddy	5	**Farmers practice:** No micro nutrient application	Micro nutrient deficiencies	Symptoms appeared	COT supplied all the micronutrients required by the crop which resulted in healthy growth and higher yield	Need COT powder in granulated form	Application of COT @ 0.5 t / ha instead of $ZnSO_4$ before transplanting is required	Symptoms of micro nutrient deficiencies require their supply resides Zn.
					Recommended Practice: Application of $ZnSO_4$ @ 20 kg / ha		Symptoms appeared				
					Alternate practice: Application of COT @0.5 t / ha		Healthy green growth observed				

Technology Assessed / Refined	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice : No micro nutrient application	6475 kg / ha	24087 / ha	2.33
Technology assessed : Application of $ZnSO_4$ @ 20 kg / ha	8510 kg / ha	36690 / ha	2.97
Technology refined : Application of COT @ 0.5 t / ha	9028 kg / ha	38902 / ha	2.97

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

1) Title of on-farm trials : Use of COT for correction of micronutrient deficiency in Paddy
2) Problem diagnose: Micronutrient deficiency (Zn-thin stems, reduced tillers, Fe, S – yellowing, Mn - dead spots on leaves, Cu, Ca – tip drying)
3) Details of technologies selected for assessment/refinement: Application of ZnSO4 @ 20 kg / ha, Application of COT @0.5 t / ha
4) Source of technology: Package of practice of UAS Dharwad (2002) & Bangalore (2005)
5) Production system and thematic area: Irrigated (paddy – paddy) and nutrient management
6) Performance of the Technology with performance indicators: OFT is in progress for 2nd season during kharif 07-08
7) Final recommendation for micro level situation: --
8) Constraints identified and feedback for research: Difficulty in application hence development of granulation technology required.
9) Process of farmers participation and their reaction:
    - Group discussions and trainings
    - Method demonstrations and field visits
    - Need of COT powder in granulated form

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Sunflower	Irrigated	Poor seed setting	Pollination studies	01	**Farmers practice:** Natural pollination	Head size, Seed filling (%), Seed Yield	Small 40 – 50 % 10 q/ha	Alternate practice and recommended practices are almost same. But the cost involved in honey bee colony is more and there is swarming of honey bees resulted in poor honey production.	Cost of honey bee colony is more. It should be conducted in larger area on community basis in a village	Replacement of 5 colonies of Apis cerana with 2 colonies of *Apis mellifera*/ ha	In *Apis mellifera*, the proboscis is long which helps in easy suction of nectar intern quick pollination.
					Recommended Practice: For higher yield, keep 5 colonies of *Apis cerana* / ha		Medium 75 % 14.33 q/ha				
					Alternate practice: Replacement of 5 colonies of *Apis cerana* with 2 colonies of *Apis mellifera*/ ha		Medium and Large 75 – 80% 15 q /ha				

Technology Assessed / Refined	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice : Natural pollination	1000 kg /ha	Rs 12050 / ha	2.51
Technology assessed : For higher yield, keep 5 colonies of *Apis cerana* / ha	1433 kg /ha	Rs14704 / ha	2.04
Technology refined : Replacement of 5 colonies of *Apis cerana* with 2 colonies of *Apis mellifera*/ ha	1500 kg /ha	Rs 15420 / ha	2.05

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

1. Title of on-farm trials: Pollination studies in sunflower
2. Problem diagnose: Poor seed setting
3. Details of technologies selected for assessment/refinement :

   Replacement of 5 colonies of *Apis cerana* with 2 colonies of *Apis mellifera*/ ha

   1% Boron spray

   Endosulfan spray @ 2ml/l against head borer
4. Source of technology: UAS Dharwad
5. Production system and thematic area : Irrigated and pollination
6. Performance of the Technology with performance indicators:
   - Head size
   - Seed filling (%)
   - Seed Yield

   Farmers practice: 1000 kg/ha (2.51)

   Recommended Practice: 1433 kg/ha (2.04)

   Alternate Practice: 1500 kg/ha (2.05)
7. Final recommendation for micro level situation: Should be conducted in larger area on community basis in a village
8. Constraints identified and feedback for research: Swarming of *Apis mellifera* bees
9. Process of farmers participation and their reaction:
   - Group discussions and trainings
   - Cost of honey bee colony is more and should be conducted in larger area on community basis in a village

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cotton	Rainfed	Leaf reddening	Control of leaf reddening in cotton	5	**Farmers practice:** Application of RDF	Leaf symptoms of reddening & yield	80 % of leaf reddening appeared	Alternate practice resulted in control of leaf reddening to an extent of 80%	Recovered plant growth on $MgSO_4$ application. Hence need to be recommended	Application of $MgSO_4$ to soil along with recommended practice is required	P & Mg deficient soils exhibit leaf reddening. hence supply of RDF with $MgSO_4$@ 25 kg / Ac to soil is required
					Recommended Practice: Application of RDF with DAP spray@ 2% & $MgSO_4$ spray 1%		60 % of leaf reddening appeared				
					Alternate practice: Application of $MgSO_4$ to soil along with recommended practice		20 % of leaf reddening appeared				

Technology Assessed / Refined	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice : Application of RDF	1091 kg / ha	18275 / ha	3.03
Technology assessed : Application of RDF with DAP spray@ 2% & $MgSO_4$ spray @ 1%	1102 kg / ha	17540 / ha	2.68
Technology refined : Application of $MgSO_4$ to soil @ 25 kg / acre along with recommended practice	1610 kg / ha	28750 / ha	3.65

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

1. Title of on-farm trials : Control of leaf reddening in Cotton
2. Problem diagnose : Leaf Reddening
3. Details of technologies selected for assessment/refinement :
4. Application of RDF with DAP spray @ 2%& $MgSO_4$ spray 1%
5. Application of $MgSO_4$ to soil @ 25 kg / acre along with recommended practice
6. Source of technology : Package of practice of UAS Dharwad and Bangalore and Mg deficiency in soil
7. Production system and thematic area : Rainfed system, Nutrient management
8. Performance of the Technology with performance indicators:
    - Controlled leaf reddening
    - Cotton Yield & BC ratio
        - Farmers practice: 1091 kg / ha (3.03)
        - Recommended Practice: 1120 kg / ha (2.68)
        - Alternate Practice: 1610 kg / ha (3.65)
9. Final recommendation for micro level situation: Along with recommended practice, wherever Mg deficiency is noticed in previous years, application of $MgSO_4$ to soil @ 25 kg / acre is needed.
10. Constraints identified and feedback for research: Under rainfed situation for crop like cotton (long duration) RDF application in more splits is required.
11. Process of farmers participation and their reaction:
    - Group discussions and trainings
    - Need technology information

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Onion	Rainfed / borewell	Purple blotch disease	Purple blotch management	05	**Farmers practice:** Foliar spray of different pesticides	Incidence of disease, bulb size & yield	25 – 30 % incidence, Small to Medium, 8.15 t/ha	Disease incidence in alternate practice is low when compared with other practices	50 % of cost involved in pesticides alone reduced with *Trichoderma* seed treatment	Seed treatment with *Trichoderma* @ 4g/kg of seeds Foliar spray of Hexaconazole @ 1 ml/l	The causal agent *Alternaria porri* is both seed and soil borne. So integration of *Tricoderma* and Hexaconazole are very effective
					Recommended Practice: Foliar spray of Dithane M 45 @ 2.5 g/l		25 – 30 % incidence, Small to Medium , 8.45t/ha				
					Alternate practice: Seed treatment with *Trichoderma viridae* @ 4g/kg of seeds Foliar spray of Hexaconazole @ 1 ml/l		2 – 5 % incidence, Medium to Large, 10.67 t/ha				

Technology Assessed / Refined	Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16
Farmer's practice : Foliar spray of different pesticides	8.15 t/ha	Rs 17600 / ha	2.17
Technology assessed : Foliar spray of Dithane M 45@ 2.5 g/l	8.45 t/ha	Rs 19550 / ha	2.37
Technology refined : Seed treatment with *Trichoderma* @ 4g/kg of seeds Foliar spray of Hexaconazole @ 1 ml/l	10.67 t/ha	Rs 27150 / ha	2.75

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

1. Title of on-farm trials : Purple blotch management in Onion
2. Problem diagnose : Purple blotch disease
3. Details of technologies selected for assessment/refinement :
4. Seed treatment with *Trichoderma viridae* @ 4g/kg of seeds
5. Foliar spray of Hexaconazole @ 1 ml/l
6. Source of technology : IIHR, Bangalore
7. Production system and thematic area : Rainfed and Disease management
8. Performance of the Technology with performance indicators:
    a. Size of the bulb
    b. Yield
        - Farmers practice: 8.15 t / ha (2.17)
        - Recommended Practice: 8.45 t / ha (2.37)
        - Alternate Practice: 10.67 t / ha (2.75)
9. Final recommendation for micro level situation: Seed treatment with *Trichoderma* @ 4 – 10 g/ kg of seeds
10. Constraints identified and feedback for research: Seed production and multiplication of disease resistant material
11. Process of farmers participation and their reaction:
    - Group discussions and trainings
    - Easy management of disease through seed treatment
    - Reduced number of sprays

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Sugarcane	Bore well	Woolly aphid incidence	Management of woolly aphid through paired row technique with beans as an intercrop	5	**Farmers practice:** 2 ½' row spacing **Recommended Practice:** 3' row spacing **Alternate practice:** 2' row spacing, 4' paired rows with beans as an intercrop	Incidence of woolly aphid, cane and inter crop yield	25 % , 105.37 t/ha 5 - 7 % , 120.64 t/ha No incidence, 137.53 t/ha with 30 q/ha beans	Incidence of woolly aphid was not observed in the alternate practice and resulted in good yield and income, besides an additional income from filed bean	Paired row method of planting can be followed with an inter crop is profitable	2' row spacing, 4' paired rows with beans as an intercrop	Paired row method of planting will increase aeration and reduce the pest incidence. An additional income from inter crop can be obtained.

Technology Assessed / Refined	Production per ha	Net Return (Profit) in Rs. / ha	BC Ratio
13	14	15	16
Farmer's practice : 2 ½' row spacing	105.37 t	45500	1.76
Technology assessed : 3' row spacing	120.64 t	60770	1.72
Technology refined : 2' row spacing, 4' paired rows with beans as an intercrop	137.53 t	65910	1.92

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

1. Title of on-farm trials: Management of woolly aphid through paired row technique with beans as an intercrop
2. Problem diagnose: Woolly aphid incidence
3. Details of technologies selected for assessment/refinement: 2’ row spacing , 4’ paired rows with beans as an intercrop
4. Source of technology: UAS Dharwad and Banaglore
5. Production system and thematic area: Irrigated area, Insect Pest management
6. Performance of the Technology with performance indicators:
    - Incidence of woolly aphid
    - Cane and inter crop yield:
    - Farmers practice: 105.37 t/ha (1.76)
    - Recommended Practice: 120.64/ha (1.72)
    - Alternate Practice: 137.53/ha (1.92)
7. Final recommendation for micro level situation: 2’ row spacing, 4’ paired rows with beans as an intercrop
8. Constraints identified and feedback for research:
9. Process of farmers participation and their reaction: Group discussions and trainings
    - Paired row method of planting followed with an inter crop is profitable

3.2 Achievements of Frontline Demonstrations

a. **Follow-up for results of FLDs implemented during previous years**

List of technologies demonstrated during previous years and popularized during 2006-07 and recommended for large scale adoption in the district

S. No	Thematic Area	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
1	Pest Management	IPM in Bengal gram	Easy availability of *Trichoderma*, pheromone traps Method demonstration on seed treatment	02	13	15
2	ICM	ICM in Groundnut	Inputs like *Trichoderma*, *Rhizobium* & Gypsum should be available at RSK Method demonstrations to SHG members - Trainings and demonstrations at RSK level	05	35	20
3	Productivity	Zn application in Maize Intercropping in Maize	-Inputs like Azospirilum, PSB & $ZnSO_4$ should be available at RSK - Trainings and demonstrations at RSK level	05	40	40
4	Saline soil management	Use of saline soil tolerant wheat variety DWR-39	- Inputs like seeds and gypsum should be available at RSK - Trainings and demonstrations at RSK level	01	04	01
5	Insect pest management	IPM in Sugarcane	- Easy availability of woolly aphid predators - Release techniques	04	25	10

b. Details of FLDs implemented during 2006-07

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
Cereals										
1	Maize	Soil fertility management	Integrated Nutrient Management	Kharif 2006-07	06	06	02	11	13	--
2	Wheat	Saline soil management	Use of saline soil tolerant wheat variety DWR-39	Rabi / Summer 2006-07	01	01	0	04	04	--
3	Ragi	Enhanced Productivity	Introduction of high yielding variety and intercropping	Kharif 2006-07	08	08	05	15	20	--
4	Paddy	Insect pest management	Integrated Pest Management	Kharif 2006-07	02	02	01	04	05	--
Oil Seeds										
5	Sunflower	Soil fertility management	Integrated Nutrient Management	Kharif 2006-07	10	10	02	19	21	--
		Soil fertility management	Integrated Nutrient Management	Rabi / Summer 2006-07	05	05	02	08	10	--
6	Groundnut	Enhanced Productivity	Integrated Crop Management	Kharif 2006-07	10	10	06	18	23	--
		Enhanced Productivity	Integrated Crop Management	Rabi/ Summer 2006-07	05	05	01	07	08	--
Pulses										
7	Bengal gram	Insect pest and disease management	Integrated Pest Management	Rabi/ Summer 2006-07	10	10	02	15	17	--
Cotton										
8	Cotton	Enhanced Productivity	Production Technology	Kharif 2006-07	20	20	08	42	50	--
Commercial crops										
9	Sugarcane	Insect pest management	Insect pest management	Kharif 2006-07	04	04	00	08	08	--
Fisheries										
10	Fish	Fish Culture	Integrated fish culture in inland ponds	Kharif 2006	1.2	1.2	--	05	05	--

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cereals											
Maize	Kharif 2006-07	Rainfed	Black soil	Lab yet to be established			Fallow	30-06-06 11-07-06	15-10-06	332	23
Wheat	Rabi / Summer 2006-07	Irrigated	Black soil	Lab yet to be established			Onion	22-11-06	28-02-07	118	04
Ragi	Kharif 2006-07	Rainfed	Red sandy loam	Lab yet to be established			Fallow	24 to 30 - 07-06	Nov. 3rd week 06	316.00	30
Paddy	Kharif 2006-07	Irrigated	Red sandy loam	Lab yet to be established			Paddy	15-09-06	Jan 2nd week 07	195.3	20
Oil Seeds											
Sunflower	Kharif 2006-07	Rainfed	Black soil	Lab yet to be established			Fallow	12-07-06 27-07-06	30-10-06	231	23
	Rabi / Summer 2006-07	Irrigated	Black soil	Lab yet to be established			Maize	05-12-06 12-11-06	30-03-07	118	04
Groundnut	Kharif 2006-07	Rainfed	Red sandy	Lab yet to be established			Fallow	28-06-07 19-07-06	Oct 4th week 06	336.2	23
	Rabi / Summer 2006-07	Irrigated	Red sandy	Lab yet to be established			Sunflower	13-12-06	March 4th week 07	190.00	04
Pulses											
Bengal gram	Rabi / Summer 2006-07	Rainfed	Black	Lab yet to be established			Maize	12-11-06 15-11-06	Feb 2nd and 3rd week	190.00	07
Cotton											
Cotton	Kharif 2006-07	Rainfed	Black and Red	Lab yet to be established			Fallow	01-06-06 07-06-06 09-06-06	January 2nd and 3rd week 07	416.8	04
Commercial crops											
Sugarcane	Kharif 2006-07	Irrigated	Red	Lab yet to be established			Sugarcane	July 1st week 06	July – Aug 07	539.81	44
Fisheries											
Fish	Kharif 06-07	Irrigated	Black soil	--			--	July 2006	April 2007	--	--

Performance of FLD

Sl.No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl. / ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
Cereals												
1	Maize (Rainfed)	Integrated Nutrient Management	Suvarna	13	06	48.0	41.0	44.9	38.0	18.1	44.9	38.0
2	Wheat (Irrigated)	Use of saline soil tolerant wheat variety DWR-39	DWR-39	04	01	8.0	7.0	7.6	3.5	118.6	7.6	3.5
3	Ragi	Introduction of HYV and intercropping	GPU 48	20	08	26	18	20.96	16.59	26.34	20.96	16.59
4	Paddy	Integrated Pest Management	BPT Sona	05	02	60	50	55.5	48.25	15.02	55.5	48.25
Oil seeds												
5	Sunflower (Rainfed)	Integrated Nutrient Management	Ganga Kaveri	21	10	8.1	5.0	7.0	6.0	16.1	Seed filling – 90 % Growth- Healthy	Seed filling – 75 % Poor growth
6	Sunflower (Irrigated)	Integrated Nutrient Management	Kargil	10	05	14.3	18.0	16.1	11.7	38.5	Seed filling – 90 % Growth- Healthy	Seed filling – 75 % Poor growth
7	Groundnut (Kharif)	Integrated Crop Management	TMV 2	23	10	12.0	8.5	9.67	7.21	34.12	9.67	7.21
8	Groundnut (Rabi)	Integrated Crop Management	TMV 2	08	05	17.8	13.9	15.56	10.56	47.40	15.56	10.56

Pulses												
9	Bengal gram	Integrated Pest Management	Local	17	10	8.0	4.75	6.18	4.81	32.78	6.18	4.81
Cotton												
10	Cotton	Production Technology	MRC 6918								14.8	10.21
			Rainfed	46	18.4	16.88	13.2	14.8	10.21	44.96		
			Irrigated	04	1.6	18.6	17.8	18.33	14.0	30.93	18.33	14.0
Commercial crops												
11	Sugarcane	Integrated Pest Management	CO 86032	08	04	725	852	751.2	698.5	7.02	751.2	698.5
Fisheries												
12	Fish	Integrated Fish Polyculture in inland ponds	Indian major carps and common carps	05	1.2	36.5	35.5	36.0	--	--	950 g average weight (sample size 20): Rs1600 additional income from vegetables	--

Economic Impact (continuation of previous table)

Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)	
Demonstration	**Local Check**	**Demonstration**	**Local Check**	**Demonstration**	**Local Check**		
14	**15**	**16**	**17**	**18**	**19**	**Demo**	**Check**
Cereals							
Maize							
14050	11750	24679 (Maize) + 4000 (Red gram)	20900	16180	9150	2.9	2.8
Wheat							
3348	2000	6485	2967	3137	967	2.94	2.48
Ragi							
4500	4800	16780	13272	12280	8472	3.73	2.76
Paddy							
10500	18550	30525	26537	20025	7987	2.91	1.43
Oil Seeds							
Sunflower (Rainfed)							
8500	7500	10500	9045	2000	1545	2.23	2.21
Sunflower (Irrigated)							
18055	16300	24195	17475	5940	1175	2.34	2.07
Groundnut (Kharif)							
12006	9300	17406	12978	5400	3678	1.45	1.39
Groundnut (Rabi)							
14090	12215	24896	16896	10806	4681	1.77	1.38
Pulses: Bengal gram							
7905	6675	16068	12506	8163	5831	2.03	1.87
Cotton (Rainfed)							
11800	8300	37000	25525	25200	17225	3.13	3.08
Cotton (Irrigated)							
12600	9100	45825	35000	33225	25900	3.64	3.85
Commercial crops: Sugarcane							
25000	23700	63852	59373	38852	35673	2.55	2.51
Fisheries							
Fish							
40100	--	73600	--	33500	--	1.84	--

Analytical Review of component demonstrations:

A. Cereals

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
1. Maize	Kharif 2006-07	**Combination of components** Bio- fertilizer - Azospirillum @ 0.5 kg/ ha Inter crop- Red gram @ 7.5 kg./ha Fertilizer - $ZnSO_4$ @ 20 kg / ha	Rainfed	44.87	38.00	18.08

Technical Feedback on the demonstrated technology

Sl. No.	Feed Back
1.	Inter - crop becomes essential where rainfall is erratic
2.	Application of $ZnSO_4$ particularly on deficient soils is required more
3.	Biofertilizer is essential to increase the productivity

Farmers' reactions on specific technologies

S. No	Feed Back
1	Seed treatment with Azospirillum in Maize is new to the farmers
2	Micro nutrient fertilizer $ZnSO_4$ increases cost of production; expect the subsidized supply

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	2	29-6-06, 11-7-06	18, 24	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
2. Wheat	Rabi/Summer 2006-07	Seeds: DWR 39 @ 60 kg/ha Fertilizer: Gypsum @ 5 q/ha	Irrigated	7.63	3.49	118.60

Technical Feedback on the demonstrated technology: Wheat (Saline Soil Management) Rabi/Summer-2006-07

Sl. No.	Feed Back
1.	Saline tolerant wheat variety DWR 39 is still promising
2.	Application of Gypsum is required where alkali nature of soil exists

Farmers' reactions on specific technologies

S. No	Feed Back
1	Seed availability should be made at RSK level
2	Gypsum availability should be made at RSK level

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	1	10-11-2006	28	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
3. Ragi	Kharif 2006-07	1. Seed/Variety : GPU 48 2. Bio-fertilizer: Azospirilum	Rainfed	20.96	16.59	26.34

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Popularization of HYV – GPU 28 and 48 Seeds should be made available at RSK level

Farmers' reactions on specific technologies

S. No	Feed Back
1	Compared to the local varieties, HYV yielded more
2	Resistant to disease
3	Fodder quality in GPU 48 is very good

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	2	03-06-06 24-06-06	55 30	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
4. Paddy	Kharif	Plant Protection : Imidacloprid, Neem pesticide	Irrigated	55.5	48.25	15.02

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Need to develop insect tolerant / resistant varieties
2.	Need to emphasize role of botanicals in BPH management, need to popularize the spraying techniques
3.	Quality of botanicals and insecticides should be authenticated

Farmers' reactions on specific technologies

S. No	Feed Back
1	Alley cropping, water and nutrient management, proper spray dosage with suitable spraying techniques helped to reduce the BPH incidence
2	Number of chemical sprays reduced due to use of botanical pesticides

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	01	04-07-06	34	--

B. Oilseeds

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
1.Sunflower	Kharif-2006-07	Bio- fertilizer : Azospirillum @ 0.5 kg/ ha PSB @0.5 kg/ ha Trichoderm @0.5 kg/ ha MOP @ 40 kg/ha $ZnSO_4$ @ 20 kg / ha Boron @ 2.5 kg/ha	Rainfed	7.00	6.03	16.05

Technical Feedback on the demonstrated technology:

Sl. No.	Feed Back
1.	Bio sources like Azospirillum, PSB and Trichoderma are essential
2.	Nutrient Management on MOP, $ZnSO_4$ and Boron is required as it is not practiced by the farmers

Farmers' reactions on specific technologies

S. No	Feed Back
1	Training on Soil and Fertilizer management is needed
2	Timely control of pest and diseases is required besides nutrient management

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	1	10-11-2006	29	--
2	Farmers Training	1	29-06-2006	18	--
3	Media coverage	2	30-06-2006 14-11-2006	--	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
2.Sunflower	Rabi/Summer 2006-07	Bio- fertilizer Azospirillum @ 0.5 kg/ ha PSB @0.5 kg/ ha *Trichoderma* @0.5 kg/ ha MOP @ 40 kg/ha $ZnSO_4$ @ 20 kg / ha Boron @ 2.5 kg/ha	Irrigated	16.13	11.65	38.50

Technical Feedback on the demonstrated technology:

Sl. No.	Feed Back
1.	Bio sources like Azospirillum, PSB and Trichoderma are essential
2.	Nutrient Management on MOP, $ZnSO_4$ and Boron is required as it is not practiced by the farmers

Farmers' reactions on specific technologies

S. No	Feed Back
1	Training on Soil and Fertilizer management is needed
2	Timely control of pest and diseases is required besides nutrient management

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	1	20-01-2007	11	--
2	Media coverage	2	23-01-2007 16-03-2007	--	--
3	Training for extension functionaries	2	12-03-2007 to 13-03-2007 15-03-2007 to 17-03-07	18 18	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
3.Groundnut	Kharif 2006-07	Combination of components a.Seed : Intercrop Redgram b. Bio-fertilizer : Rhizobium c. Fertilizer management : DAP, MOP, Gypsum d. Plant Protection measures: *Trichoderma*, Chlorpyrifos, Carbendazim, Methyl parathion	Rainfed	9.67	7.21	34.12

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Need to develop disease resistant and high yielding varieties
2.	Need to popularize seed treatment, gypsum application, RDF, intercropping and timely plant protection measures
3.	Minimum support price should be fixed for the produce grown under recommended practices, Genuine gypsum and biofertilizers should be made easily available to farmers at cheaper rates through KSDA

Farmers' reactions on specific technologies

S. No	Feed Back
1	Seed treatment with Trichoderma, Rhizobium and Chlorpyrifos reduced the disease and insect incidence, Nodulation was more due to Rhizobium treatment
2	Due to gypsum application soil condition was friable which favored easy peg penetration. Seed filling was good. RDF resulted in over all good crop growth and yield.
3	Timely spray of pesticides reduced the insect pest and disease incidence
4	Intercropping with red gram gave additional income besides soil fertility improvement and reduced soil erosion.
5	Farmers were convinced about sowing of horse gram as relay crop 1 month prior to harvest of groundnut to utilize time and space and in turn increased the soil fertility and overall yield.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	1	10-11-06	29	--
2	Farmers Training	2	29-06-06 04-7-06	41	--
3	Media coverage	1	12-11-06	--	--
4	Training for extension functionaries	1	--	17	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
4.Groundnut	Rabi / Summer 2006-07	Combination of components : a.Seed : Intercrop Redgram b. Bio-fertilizer : Rhizobium c. Fertilizer management : DAP, MOP, Gypsum d. Plant Protection : *Trichoderma*, Chlorpyrifos, Carbendazim, Methyl parathion	Irrigated	15.56	10.56	47.4

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Need to develop disease resistant and high yielding varieties
2.	Need to popularize seed treatment, gypsum application, RDF, intercropping and timely plant protection, post harvest equipments
3.	Minimum support price should be fixed for the produce grown under recommended practices, Genuine gypsum and biofertilizers should be made easily available to farmers at cheaper rates through KSDA

Farmers' reactions on specific technologies

S. No	Feed Back
1	Seed treatment with Trichoderma and Rhizobium reduced the disease and insect incidence, Nodulation was more due to Rhizobium treatment
2	Due to gypsum application soil condition was friable which favored easy peg penetration. Seed filling was good. RDF resulted in over all good crop growth and yield.
3	Timely spray of pesticides reduced the insect pest and disease incidence
4	Intercropping with red gram gave additional income besides soil fertility improvement and reduced soil erosion.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	1	12-12-06	46	--
2	Media coverage	1	15-11-06	--	--
3	Training for extension functionaries	1	15 to 17-03-07	18	--

C. Pulses

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
1. Bengal gram	Rabi / Summer 2006-07	Plant Protection : Trichoderma, Pheromone traps, neem pesticide, quinalphos	Rainfed	6.18	4.81	32.78

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	HYV in Desi and Kabuli types needed
2	IPM package need to be popularized which is cost effective and eco-friendly
3	Crop insurance should be made compulsory, Quality of bio pesticides should be authenticated

Farmers' reactions on specific technologies

S. No	Feed Back
1	Seed treatment with Trichoderma reduced the incidence of wilt disease
2	Pheromone traps helped in monitoring of pod borer population and to some extent reduced the incidence
3	Neem and quinalphos spray reduced the pod borer incidence

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	1	04-01-07	15	--
2	Farmers Training	1	30-11-06	17	--
3	Training for extension functionaries	1	15 to 17 -03- 07	18	--

D. Cotton

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
1. Cotton 2. (Rainfed)	Kharif 2006-07	Combination of components Seed: MRC 6918 (Bt) Trap crop: Bendi Bio fertilizer: Azospirilum Fertilizer : Planofix, Zimag Plant Protection: Imidacloprid, Pheromone traps, neem pesticide, profenophos	Rainfed	14.8	10.21	44.96

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Need to find out exact reasons for square drying and boll shedding
2.	Need to increase the area under cotton by adopting ICM practices
3.	Stringent policies are required to grow Bt cotton as there is agitation from different organizations

Farmers' reactions on specific technologies

S. No	Feed Back
1	Boll worm incidence reduced in Bt as compared to earlier grown hybrids
2	Noticed the occurrence of boll worms on Bendi and Marigold. So the incidence of pests reduced on main crop and decreased he plant protection cost
3	Micro nutrient and growth regulator spray reduced the flower drop and square drying considerably
4	Pheromone traps helped in assessment of pest population and timely spray reduced the cost on chemicals

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2	18-11-06 20-11-06	35 60	--
2	Farmers Training	4	29-06-06 07-08-06 22-08-06 17-09-06	24 19 34 14	--
3	Media coverage	2	10-08-06 21-11-06	--	--
4	Training for extension functionaries	6	--	18	Conducted FFS at 2 locations in collaboration with KSDA in ICM cotton demonstrations
5	Kisan Mela with KSDA	1	19 to 20 -09-06	93	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
2. Cotton (Irrigated)	Kharif 2006-07	5. Combination of components (Please specify) : Seed: MRC 6918 (Bt) Trap crop: Bendi Bio fertilizer: Azospirilum Fertilizer : Planofix, Zimag Plant Protection: Imidacloprid, Pheromone traps, neem pesticide, profenophos	Irrigated	18.33	14.00	30.93

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Need to find out exact reasons for square drying and boll shedding
2.	Need to increase the area under cotton by adopting ICM practices
3.	Stringent policies are required to grow Bt cotton as there is agitation from different organizations

Farmers' reactions on specific technologies

S. No	Feed Back
1	Boll worm incidence reduced in Bt as compared to earlier grown hybrids
2	Noticed the occurrence of boll worms on Bendi and Marigold. So the incidence of pests reduced on main crop and decreased he plant protection cost
3	Micro nutrient and growth regulator spray reduced the flower drop and square drying considerably
	Pheromone traps helped in assessment of pest population and timely spray reduced the cost on chemicals

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2	18-11-06 20-11-06	35 60	--
2	Farmers Training	4	29-06-06 07-08-06 22-08-06 17-09-06	24 19 34 14	--
3	Media coverage	2	09-08-06 22-11-06	--	--
4	Training for extension functionaries	6	--	18	Conducted FFS at 2 locations in collaboration with KSDA in ICM cotton demonstrations
5	Kisan Mela with KSDA	1	19 to 20 -09-06	93	--

E. Commercial Crops

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
1.Sugarcane	Kharif 2006-07	Plant Protection : Malathion, *Micromus* predator	Irrigated	751.2	698.5	7.02

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Mass multiplication of wooly aphid predators as well as resistant variety
2.	Awareness on the role of bio control agents in woolly aphid management, Release methods
3.	Minimum support price should be fixed for the produce

Farmers' reactions on specific technologies

S. No	Feed Back
1	Farmers appreciated the role of predators and convinced about the technology

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	01	21.08.06	27	
2	Media Coverage	01	23.08.06	--	--

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
2. Fish	Kharif 06-07	Integrated fish culture in inland ponds	Irrigated	36.0	--	--

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1.	Production of advanced / stunted fingerlings for shorter culture duration
2.	Development of more alternative culturable species
3.	Popularization of integrated fish farming

Farmers' reactions on specific technologies

S. No	Feed Back
1	Provision of good quality fish seeds at the right time
2	Fast growing culturable species
3	Increased Government financial support

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Farmers Training	01	10-03-07	16	--
2	Media Coverage	01	11-03-07	--	--
3	Training to extension functionaries	01	19-09-06 to 20-09-06	22	--

C. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers/ farm women	Area ha / Units (No)	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Groundnut stripper	Groundnut	16	1	Time consumption	22.5 kg / hr	12 kg / hr	87.5	In addition to time and labour saving, farm women expressed that body pain and injuries are also reduced.
				Labour consumption	720 kg / machine (4 Labours / day)	720 kg / 7.5 Labours / day		
Groundnut decorticator	Groundnut	46	3	Time consumption	10.75 kg / hr	1.5 kg / hr	616.66	Damage to seeds reduced. In addition to time and labour saving, farm women expressed that body pain and injuries are also reduced.
				Labour consumption	86 kg / day / Labour	86 kg / day / 7.17 Labour		

(ii) Livestock Enterprises: Nil

(iii) Other Enterprises: Nil

Note: Details of on-going OFTs and FLDs conducted during Kharif 2007-08 are given in Annexure 1

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

A) ON Campus

Farmers and Farm Women

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
04-12-06 to 05-12-06	Value addition in Ragi & preparation of Ragi malt	2	--	24	24	--	02	--
06-12-06 to 08-12-06	Mushroom cultivation	3	18	5	23	04	04	08
12-12-06 to 13-12-06	Nutrient Management in Groundnut	2	20	--	20	--	--	--
13-12-06 to 15-12-06	Nutrient Management in Paddy	3	22	--	22	01	--	01
04-01-07 to 06-01-07	IPM in Bengal gram and use of traps	3	13	02	15	01	--	01
13-01-07 to 15-01-07	Value addition in Ragi and Ragi malt preparation	3	--	16	16	--	03	03
18-01-07 to 20-01-07	Processing in fruits and preparation of Jam and Nector	3	--	18	18	--	02	02
27-02-07	Dry Land Horticulture	3	33	--	33	--	--	--
07-03-07	Use of COT in Paddy	1	30	--	30	03	--	03
10-03-07	Inland Fish Aquaculture	1	18	--	18	03	--	03
13-04-07	Mushroom Production and value addition	1	24	--	24	10	--	10
05-05-07	Soil fertility management and soil testing	1	11	--	11	--	--	--
04-05-07	Crop diversity and cropping pattern	1	34	09	43	03	04	07
11-05-07	Production technology in Maize and Redgram	1	13	--	13	--	--	--
14-05-07	Production technology in Sunflower	1	14	02	16	02	01	03
14-05-07	Value addition in Ragi	1	--	26	26	--	--	--

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
19-05-07	Production technology in Cotton	1	28	--	28	04	--	04
19-05-07	Production technology in Cotton	1	23	--	23	04	--	04
23-05-07	Production technology in Tomato & Brinjal	1	12	--	12	--	--	--
25-05-07	Crop diversity and cropping pattern	1	36	01	37	06	--	06
28-05-07	Viral disease resistant varieties in Tomato & fruit borer management in Brinjal	1	08	--	08	--	--	--
29-05-07 to 30-05-07	Participatory Rural Appraisal	2	29	15	44	05	01	06
05-06-07	Nutrient Management & importance of soil testing in Groundnut	1	28	--	28	05	--	05
11-06-07	Integrated crop management in Groundnut	1	11	01	12	01	--	01
11-06-07	Integrated Nutrient Management in Maize	1	09	1	10	03	01	04
23-06-07	Income Generating activities	1	--	--	--	--	15	15
25-06-07	Production technology in Ragi (GPU-28)	1	--	--	--	--	10	10
18-07-07	Importance of Maize in daily diet and its uses	1	--	13	13	--	--	--
28-07-07	Safe storage of pulses	1	05	08	13	03	08	11
18-07-07	Scientific Integrated Fish Farming	1	17	--	17	--	--	--
02-08-07	Pest and disease management in Sunflower	1	09	01	10	--	--	--
02-08-07	Use of micronutrients and growth regulators in Bt. Cotton	1	12	01	13	02	--	02
06-08-07	Importance of Soyabean and its products	1	--	15	15	--	--	--

08-08-07	Use of COT for supply of micronutrients in Paddy	1	10	--	10	--	--	--
08-08-07	Management of Nitrogen in Arecanut nursery and methods to avoid sun scorching in Arecanut	1	10	--	10	--	--	--
10-08-07	Improved production technologies in Paddy, Sugarcane and Maize	1	18	--	18	03	--	03
16-08-07	Scientific Integrated Inland Pond Aquaculture	1	11	--	11	--	--	--
20-08-07	Use of Pheromone traps in ICM of Cotton	1	18	--	18	04	--	04
21-08-07	Post Harvest Technologies in Agricultural crops	1	--	21	21	--	10	10
22-08-07	Agronomic practices and selection of suitable varieties in Maize, Sugarcane and Cotton	1	35	--	35	05	--	05
24-08-07	Staking and use of Pheromone traps in Tomato	1	09	03	12	--	--	--
Total		**56**	**579**	**208**	**787**	**72**	**61**	**133**

Rural Youth

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
25-4-2007	Clean Milk Production	1	18	--	18	04	--	04
Total		**1**	**18**	**--**	**18**	**04**	**--**	**04**

Extension Personnel

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
12-3-07 to 13-3-07, 15-3-07 to 17-3-07	Pest and Disease Management in Pulses and oilseed crops	5	18	--	18	03	--	03
Total		**5**	**18**	**--**	**18**	**03**	**--**	**03**

(B) OFF Campus

Farmers and Farm Women

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
16-10-06	Food production, Processing and constrains in products	1	18	14	32	5	4	9
09-11-06	Agro based entrepreneurship development for rural women	1	--	23	23	--	9	9
06-11-06	Drudgery reduction through Groundnut stripper and Decorticator	1	07	19	26	1	1	2
30-11-06	IPM in Bengal gram	1	17	--	17	2	--	2
20-01-07	Use of Boron in Sunflower	1	10	01	11	--	--	--
25-01-07	Rural Development and Suvarna Grama Yojana planning	1	05	02	07	02	01	03
01-05-07	Crop diversity & cropping pattern	1	20	--	20	--	--	--
03-05-07	Crop diversity & cropping pattern	1	26	--	26	--	--	--
08-05-07	Soil fertility management and soil testing	1	22	--	22	--	--	--
08-05-07	Soil fertility management and soil testing	1	24	--	24	--	--	--
10-05-07	Use of Groundnut stripper in Groundnut	1	13	--	13	--	--	--
16-05-07	Inland fish aquaculture	1	17	--	17	--	--	--
22-05-07	Soil testing and its importance in soil fertility management	1	47	--	47	08	--	08
31-05-07	IPM practices in Bt. Cotton	1	20	--	20	04	--	04

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
06-06-07	Pest and Disease management in Onion	1	19	--	19	--	--	--
07-06-07	Income generating activities	1	--	26	26	--	--	--
12-06-07	Integrated Management of purple blotch in Onion	1	20	--	20	06	--	06
29-08-07	Nutritious food management through kitchen garden	1	09	33	42	--	--	--
11-09-07	Integrated Pest Management in Sunflower	1	14	--	14	01	--	01
12-09-07	Fertilizer and weed management in Maize	1	05	24	29	--	08	08
13-09-07	Plant Protection in Maize and Sunflower	1	07	22	29	04	03	07
29-09-07	Management and control of Parthenium	1	22	--	22	05	--	05
Total		**22**	**342**	**164**	**506**	**38**	**26**	**64**

Rural Youth: Nil

Extension Personnel: Nil

(C) Consolidated table (ON and OFF Campus)

Farmers and Farm Women

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
04-12-06 to 05-12-06	Value addition in Ragi and preparation of Ragi malt	2	--	24	24	--	02	2
06-12-06 to 08-12-06	Mushroom cultivation	3	18	05	23	04	04	8
12-12-06 to 13-12-06	Nutrient Management in Groundnut	2	20	--	20	--	--	0
13-12-06 to 15-12-06	Nutrient Management in Paddy	3	22	--	22	01	--	1
04-01-07 to 06-01-07	IPM in Bangal gram and use of traps	3	13	02	15	01	--	1
13-01-07 to 15-01-07	Value addition in Ragi and Ragi malt preparation	3	--	16	16	--	03	3
18-01-07 to 20-01-07	Processing in fruits and preparation of Jam and Nector	3	--	18	18	--	02	2
27-02-07	Dry Land Horticulture	3	33	--	33	--	--	0
07-03-07	Use of COT in Paddy	1	30	--	30	03	--	3
10-03-07	Inland Fish Aquaculture	1	18	--	18	03	--	3
13-04-07	Mushroom Production and value addition	1	24	--	24	10	--	10
05-05-07	Soil fertility management and soil testing	1	11	--	11	--	--	--
04-05-07	Crop diversity and cropping pattern	1	34	09	43	03	04	7
11-05-07	Production technology in Maize and Red gram	1	13	--	13	--	--	0

14-05-07	Production technology in Sunflower	1	14	03	17	02	01	3
14-05-07	Value addition in Ragi	1	--	26	26	--	--	0
19-05-07	Production technology in Cotton	1	28	--	28	04	--	4
19-05-07	Production technology in Cotton	1	23	--	23	04	--	4
23-05-07	Production technology in Tomato & Brinjal	1	12	--	12	--	--	0
25-05-07	Crop diversity and cropping pattern	1	30	01	31	06	--	6
28-05-07	Viral disease resistant varieties in Tomato & fruit borer management in Brinjal	1	08	--	8	--	--	0
29-05-07 to 30-05-07	Participatory Rural Appraisal	2	29	15	44	05	01	6
05-06-07	Nutrient Management & importance of soil testing in Groundnut	1	28	--	28	05	--	5
11-06-07	Integrated crop management in Groundnut	1	11	01	12	01	--	1
11-06-07	Integrated Nutrient Management in Maize	1	09	01	10	03	01	4
23-06-07	Income Generating activities	1	--	15	15	--	15	15
25-06-07	Production technology in Ragi (GPU-28)	1	--	10	10	--	10	10
18-07-07	Importance of Maize in daily diet and its uses	1	--	13	13	--	--	--
28-07-07	Safe storage of pulses	1	05	08	13	03	08	11
18-07-07	Scientific Integrated Fish Farming	1	17	--	17	--	--	0

02-08-07	Pest and disease management in Sunflower	1	09	01	10	--	--	--
02-08-07	Use of micronutrients and growth regulators in Bt. Cotton	1	12	01	13	02	--	2
06-08-07	Importance of Soyabean and its products	1	--	15	15	--	--	--
08-08-07	Use of COT for supply of micronutrients in Paddy	1	10	--	10	--	--	--
08-08-07	Management of Nitrogen in Arecanut nursery and methods to avoid sun scorching in Arecanut	1	10	--	10	--	--	--
10-08-07	Improved production technologies in Paddy, Sugarcane and Maize	1	18	--	18	03	--	3
16-08-07	Scientific Integrated Inland Pond Aquaculture	1	11	--	11	--	--	--
20-08-07	Use of Pheromone traps in ICM of Cotton	1	18	--	18	04	--	4
21-08-07	Post Harvest Technologies in Agricultural crops	1	--	21	21	--	10	10
22-08-07	Agronomic practices and selection of suitable varieties in Maize, Sugarcane and Cotton	1	35	--	35	05	--	5
24-08-07	Staking and use of Pheromone traps in Tomato	1	09	03	12	--	--	--

16-10-06	Food production, Processing and constrains in products	1	18	14	32	5	4	9
09-11-06	Agro based entrepreneurship development for rural women	1	--	23	23	--	9	9
06-11-06	Drudgery reduction through Groundnut stripper and Decorticator	1	07	19	26	1	1	2
30-11-06	IPM in Bengal gram	1	17	--	17	02	--	02
20-01-07	Use of Boron in Sunflower	1	10	01	11	--	--	--
25-01-07	Rural Development and Suvarna Grama Yojana planning	1	05	02	07	02	01	03
01-05-07	Crop diversity & cropping pattern	1	20	--	20	--	--	--
03-05-07	Crop diversity & cropping pattern	1	26	--	26	--	--	--
08-05-07	Soil fertility management and soil testing	1	22	--	22	--	--	--
08-05-07	Soil fertility management and soil testing	1	24	--	24	--	--	--
10-05-07	Use of Groundnut stripper in Groundnut	1	13	--	13	--	--	--
16-05-07	Inland fish aquaculture	1	17	--	17	--	--	--
22-05-07	Soil testing and its importance in soil fertility management	1	47	--	47	08	--	08
31-05-07	IPM practices in Bt. Cotton	1	20	--	20	04	--	04

06-06-07	Pest and Disease management in Onion	1	19	--	19	--	--	--
07-06-07	Income generating activities	1	--	26	26	--	--	--
12-06-07	Integrated Management of purple blotch in Onion	1	20	--	20	06	--	06
29-08-07	Nutritious food management through kitchen garden	1	09	33	42	--	--	--
11-09-07	Integrated Pest Management in Sunflower	1	14	--	14	01	--	1
12-09-07	Fertilizer and weed management in Maize	1	05	24	29	--	08	8
13-09-07	Plant Protection in Maize and Sunflower	1	07	22	29	04	03	7
29-09-07	Management and control of Parthenium	1	22	--	22	05	--	5
Total		**78**	**921**	**372**	**1293**	**110**	**87**	**197**

Rural Youth

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
25-4-2007	Clean Milk Production	1	22	--	22	04	--	04
Total		**1**	**22**	**--**	**22**	**04**	**--**	**04**

Extension Personnel

Date	Title of the training programme	Duration in days	Number of participants			Number of SC/ST		
			Male	Female	Total	Male	Female	Total
12-3-07 to 13-3-07, 15-3-07 to 17-3-07	Pest and Disease Management in Pulses and oilseed crops	5	21	--	21	03	--	03
Total		**5**	**21**	**--**	**21**	**03**	**--**	**03**

(D) Vocational training programmes for Rural Youth: Nil

(E) Sponsored Training Programmes

Sl. No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants							Sponsoring Agency
					PF/RY/EF		Male		Female		Total			
							Others	SC/ ST	Others	SC/ ST	Others	SC/ ST	Total	
1	Clean Milk Production	Dairy	December	15	Milk producing Farmers / Farm Women	15	344	94	122	75	466	169	635	SHIMUL, Shimoga
2	Clean Milk Production	Dairy	January	23	Milk producing Farmers / Farm Women	23	696	86	269	73	965	159	1124	SHIMUL, Shimoga
3	Clean Milk Production	Dairy	February	33	Milk producing Farmers / Farm Women	33	714	94	445	43	1159	137	1296	SHIMUL, Shimoga
4	Clean Milk Production	Dairy	March	23	Milk producing Farmers / Farm Women	23	579	126	132	11	711	137	848	SHIMUL, Shimoga
5	Production Technology of vegetable crops	Horticulture	December	03	Practicing farmer / Farm Women, Rural Youth	03	82	21	15	03	97	24	121	KSDH, Davanagere
Total				**97**		**97**	**2415**	**421**	**983**	**205**	**3398**	**626**	**4024**	

Note: Details of Clean Milk Production training programmes are given in Annexure 2

3.4. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	144	29	173	--	--	--	144	29	173
Film Show	96	2746	1176	3922	--	--	--	2746	1176	3922
Method Demonstrations*	169	3308	1350	4658	26	15	41	3334	1365	4699
Workshop / Bi-monthly workshop	2	75	--	75	--	--	--	75	--	75
Lectures delivered**	21	1125	379	1504	28	7	30	1153	386	1539
Newspaper coverage	89	--	--	--	--	--	--	--	--	--
Radio talks***	4	--	--	--	--	--	--	--	--	--
TV talks***	23	--	--	--	--	--	--	--	--	--
Scientific / Popular articles	5	--	--	--	--	--	--	--	--	--
Extension Literature/ leaflets	6	2770	1176	3946	--	--	--	2770	1176	3946
Advisory Services	135	131	04	135	--	--	--	131	4	135
Scientific visit to farmers field	229	220	09	229	--	--	--	220	9	229
Farmers visit to KVK	157	142	15	157	--	--	--	142	15	157
Exposure visits	2	--	--	--	--	--	--	--	--	--
Trainers training	1	--	--	--	--	--	--	--	--	--
Soil test campaigns	1	47	--	47	--	--	--	47		47
Self Help Group Conveners meetings	1	15	--	15	--	--	--	15		15
Mahila Mandals Conveners meetings	--	--	--		--	--	--			

Participatory Rural Apprisal	1	110	60	170	--	--	--	110	60	170
Scientific field survey on pond fish culture practices	1	10		10	--	--	--	10		10
Meeting with Honorable Agril. Minister Govt. of Karnataka	1	--	--	--	--	--	--	--	--	--
Celebration of important days										
World Food Day 16th October 2006	1	18	14	32	--	--	--	18	14	32
Women in Agriculture Day 4th December 2006	1	--	24	24	--	--	--	--	24	24
Kisan Samman Divas 23rd December 2006	1	39	--	39	--	--	--	39	--	39
National Science Day 28th February 2007	1	48	02	50				48	02	50
World Kitchen Garden Day 26th August 2007	1	33	09	42	--	--	--	33	09	42
Wall Posters	3	180	55	235	--	--	--	180	55	235
Technical Book	1	788	170	958	--	--	--	788	170	958
Conference	3	--	--	--	--	--	--	--	--	--
Total	**960**	**11949**	**4472**	**16421**	**54**	**22**	**76**	**12003**	**4494**	**16497**

Note: * Details in Annexure 3; ** Details in Annexure 4; *** Details in Annexure 5

3.5 Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (q)	Value (Rs.)	Provided to No. of Farmers
1	**COMMERCIAL CROP**				
	Sugarcane	CO-86032	90	11700	4 FLD farmers
2	**PULSES**				
	Red gram	JS-1	1.6	2656	Supplied to KSSC, Davanagere

SUMMARY

Sl. No.	Crop	Quantity (q)	Value (Rs.)	Provided to No. of Farmers
1	COMMERCIAL CROP Sugarcane	90	11700	4 FLD farmers
2	PULSES Red gram	1.6	2656	Supplied to KSSC, Davanagere
TOTAL			**14356**	

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	**VEGETABLES**				
	Drumstick	PKM-1	250	2500	40

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	VEGETABLES (Drumstick PKM-1)	**250**	**2500**	**40**

BIO-PRODUCTS - Nil

LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos.)	Kgs		
1.	**FISHERIES**					
	Fingerlings	Common carp, Catla, Rohu	16,000	--	5170	6 FLD Farmers

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	FISHERIES	Common carp, Catla, Rohu	16,000	--	5170	6 FLD Farmers

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): Yet to be published

(B) Literature developed/published

Item	Title	Authors name	Number
Technical bulletins	Clean Milk Production	Taralabalu Krishi Vigyan Kendra & SHIMUL	01
Popular articles	1) Suitable seeds for improved yield in coconut (Kannada)	Basavanagowda M.G., T.N. Devaraja, Roopa.S. Patil, B.O. Mallikarjuna and Kavitha.P	01
	2) Groundnut Stripper-A technological tool in women drudgery reduction	T.N. Devaraja and Kavitha.P	01
	3) Pond Fish Aquaculture	T.N. Devaraja and Dr. Gayathri Devaraja	01
Extension literature/ leaflets	1) Clean Milk Production	Taralabalu Krishi Vigyan Kendra and SHIMUL	10000
	2) Mushroom Cultivation	Dr. Rajakumar G.R, Kavitha P, Mallikarjuna B.O, Sandesh H.M and Dr. Devaraja T.N.	1000
	3) Onion	Basavanagowda M.G., Roopa.S. Patil, B.O. Mallikarjuna and T.N. Devaraja,	300
	4) Tomato leaf virus resistance: Sankranthi, Nandi, Vibhav and scientific cultivation practices	Basavanagowda M.G., Roopa.S. Patil, T.N. Devaraja and B.O. and Mallikarjuna	300

	5) Kitchen Garden	Basavanagowda M.G., Kavitha.P T.N. Devaraja, B.O. Mallikarjuna and Roopa.S. Patil	300
	6) Integrated Pest Management in Bt cotton	Roopa S. Patil, Mallikarjuna B. O. Rajakumar G. R. T.N. Devaraja and Basavanagowda M.G.	100
	7) Integrated Management of Redgram pod borer	Roopa S. Patil, Mallikarjuna B. O., T.N. Devaraja and Basavanagowda M.G.	50
	8) Integrated Management of shoot and fruit borer in Brinjal	Roopa S. Patil, Basavanagowda M.G., Mallikarjuna B. O. and T.N. Devaraja	50
	9) Woolly aphid Management in sugarcane	Roopa S. Patil, Mallikarjuna B. O., T.N. Devaraja and Basavanagowda M.G.	50
Scientific Articles	10) Integrated Management of Parthenium	Roopa S. Patil, Mallikarjuna B. O. Basavanagowda M.G. and T.N. Devaraja	50
	11) Crop and nutrient management in Maize	Rajakumar G.R, Mallikarjuna B.O and T.N. Devaraja	100
	1) Environmental Awareness	Dr. Devaraja T.N	01
	2) Inland Fisheries	Dr. Devaraja T.N	01
	3) Easy learning of English	Dr. Devaraja T.N	01
	4) Scientific Integrated Fish Farming – A Boon to small and marginal inland farmers	Dr. Deveraja T.N and Dr. Gayathri Devaraja	01
	5) Mother palm selection propagation in Arecanut	Basavanagowda M.G., B.O. Mallikarjuna and T.N. Devaraja	01
	6) Mother palm selection propagation in coconut	B.O. Mallikarjuna, Basavanagowda M.G and Roopa.S. Patil	01

C) Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1	VCD	Selection of elite tree and methods of raising healthy seedlings in Coconut	01
2		Mother palm selection in Arecanut	01
3		Seed selection, treatment and method of sowing in Sugarcane	01
4		Paddy transplanting	01
5		Papaya intercropping in Arecanut	01
6		Management of sun scorch in Arecanut	01
7		Nutrient Management in Arecanut	01
8		Ridge gourd seed production	01
9		Integrated Pest Management in Paddy	01
10		Application of nitrogen supplement in Arecanut	01
11		Integrated Pest Management in Brinjal	01
12		High density planting in coconut	01
13		Carnation cultivation in Green house	01
14		Integrated Pest Management in Groundnut	01
15		Use of micronutrients in Maize	01
16		Use of tank silt	01
17		Urea testing	01
18	Audio CD	Scientific Integrated Fish Farming	01

3.7. Success Stories / Case studies

Success Story 1:

Title: "SMALL BUT INNOVATIVE"

Name and address of the farmer: Sri. K.M. Prabhakar

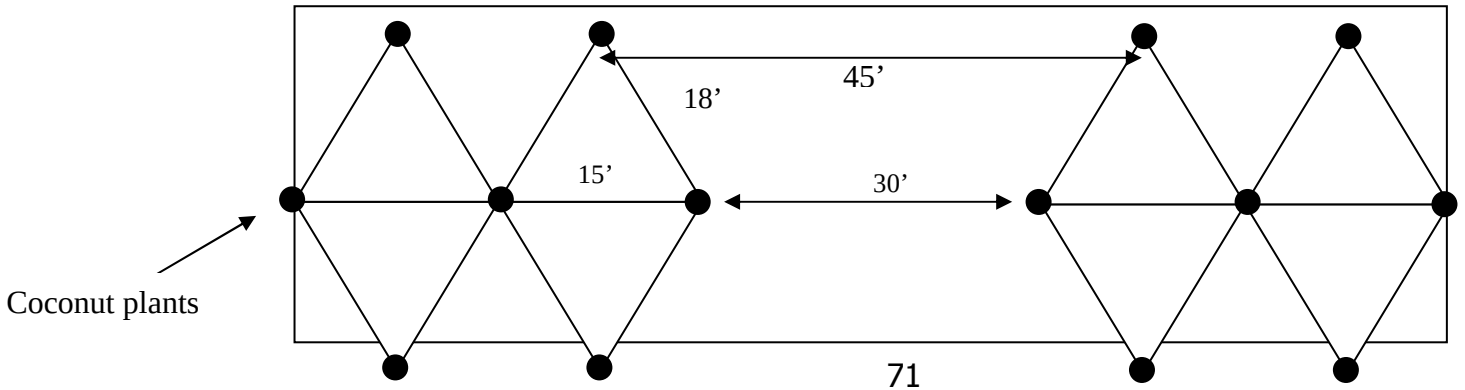
S/o K. Marualsiddappa
Kurki (at) (Post)
Davanagere (Tq)
Davanagere (District)
Ph: 08192-294976

Sri K.M. Prabhakar is a small farmer with seven acres landholdings (three acres irrigated and four acres rainfed) from Kurki, Davanagere Taluk. He and his wife Rathnamma lead a contented life with two little daughters. His innovativeness in small landholdings has made him a comprehensively successful farmer.

His openness to change provided him an opportunity when he came in contact with Taralabalu Krishi Vigyan Kendra. His association with Taralabalu KVK began on a small note of introduction of Vermicomposting in an on campus training. Interest and curiosity blended with hard work made him discover the hidden potential of Vermicomposting. What started of as a small Vermicomposting unit for his own farm now provides earthworms and vermicompost to fellow farmers. This has changed his life for good and saved the cost towards inorganic fertilizers.

SIGNIFICANT ACHIEVEMENTS:

I. Hexagonal planting in Coconut: By establishing hexagonal system of planting in coconut, it will facilitate to accommodate more number of plants (120 plants/ acre) as against recommended practice (40 plants/ acre). He has planted 60 coconut plants in 0.5 acre area.



II. Natural farming: Farmer is practicing natural farming in paddy (2 acres). The produce obtained from the natural farming is marketed through Nandi farm men Self Help Group (SHG) that is formed by Taralabalu Krishi Vigyan Kendra, Davanagere. Even though yield obtained from the natural farming is low when compared to the inorganic farming, the net income is more because of direct marketing through SHG.

III. Kitchen gardening: Established kitchen garden at the backyard of his home for obtaining nutritious food for his family. In kitchen garden he accommodated fruit plants, vegetables, flower crops and some medicinal plants. Apart from getting nutritious food, he is also getting additional income for his family.

IV. Dairy : Having one local and HF cow. So far supplied about 14,000 L of milk @ Rs.9/- to the Milk Producers Co-operative Society. The gross income is Rs. 1,26,000/- out of which Rs. 56,000/- is spent for feed. The net income is Rs. 70,000/-. By this he is getting income 3000-4000/- per month.

V. Biogas unit: The cow dung and urine obtained from dairy is used for biogas (for cooking and one 60 candle bulb) and the slurry obtained from the biogas is used for Vermicomposting. This technology helps him to recycle the natural resources in an efficient manner and support his life in eco friendly way. Besides this, expenditure that would have otherwise incurred towards LPG / fuel wood and electricity is saved.

VI. Mushroom Unit: Subsidiary income generating occupation and provides nutritious food item to family and other interested customers

VII. Improved composting methods

a) Vermicomposting: Different methods of preparing vermicompost such as pit method, Kadapa stone method and *in situ* method from past two years and growing crops by applying vermicompost and vermi wash after the intervention of Taralabalu Krishi Vigyan Kendra, Davanagere. The total quantity produced is 20 tons per year and sold 50 kg worms.

b**) Improved compost preparation**: Enrichment of the compost by using *Trichoderma* and Phosphorous Solubilizing Bacteria for fast degradation. This enriched compost will be applied for field crops and horticulture crops.

VIII. Poultry: He is maintaining 10 hens and two fighter cocks. From this he is getting Rs.1000/- profit per month in the form of eggs and meat. Each fighter cock would fetch Rs. 500/-.

IX. Azolla production unit: He is cultivating Azolla as a bio fertilizer and feed supplement in an area of 20' X 5'. This Azolla has been used in enriching the compost and in cattle feed.

X. Scientific nurseries: He has been actively involved in establishing scientific nurseries of Arecanut (2000), Coconut (200), Drumstick (1000) and Lemon (200). Numbers in parenthesis indicate production figures hither to. These nurseries generated net income of Rs 50,000/-.

2. Yield levels in different crops and allied enterprises (Animal Husbandry activity and others)

Sl.No.	Year	Season	Crop	Variety	Yield / Acre
1	2005- 06	Kharif	Maize	Kaveri hybrid	20 q
2	2005- 06	Kharif	Ragi	GPU - 28	15 q
3	2005- 06	Kharif	Avare	Local	20 q
4	2005-06	Kharif	Paddy (Organic)	JJL Sona	20 q
5	2005- 06	Summer	Paddy	JJL Sona	35 q
6	2005-06	Summer	Paddy (Organic)	JJL Sona	22 q
7	2005-06	Annually	Cow	HF Amruth mahal	6200 L / annum 1000 L / annum
8	2005-06	Annually	Poultry	Local	Rs .10000 / annum

3. Nursery:

Sl.No.	Year	Season	Crop	Variety	No.s
1	2005- 06	Summer	Arecanut	Teerthahalli Local	2000
2	2005- 06	Summer	Coconut	Tiptur tall	200
3	2006- 07	Kharif	Drumstick	PKM-1	1000
4	2006-07	Kharif	Lime	Kurki local	200

4. Integrated Farming System:

The total landholding is seven acres, out of which three acres irrigated from Bhadra canal and four acres under dry land. The major crops are Paddy, Ragi, Maize, Fodder crops, Coconut and Arecanut with vegetables as inter crop. In dry land soil and water conservation structures like, bunds across the slope, sowing across the slope is in practice.

Cropping system:

Sl.No	System of cultivation	Crops/Activities	Numbers
1	Agri + Horti	Coconut + Redgram	60
		Arecanut + Beans/ Avare/ Brinjal	1000
		Drumstick	1000
		Lime	200
		Caster	Border crop
		Maize	2 acres
		Ragi + Horsegram	2 acres
2	Silvi	Teak	50
		Silver oak	25
		Honge	50
		Neem	50
3	Dairy	Cow	2
		Calves	2
4.	Poultry	Local	12
5	Pasture	South African tall	--
		Nappier grass	--
6	Nursery	Arecanut, Coconut, Lime, Drumstick	3400
7	Vermicomposting	Eudrilus species	2 units
8	Biogas	--	One

4. Recent Technologies like PDM, IWM, ITKs, Biofertilizers

Sl.No	Practices	Technologies Adopted
1	Pest and Disease Management (PDM)	➧ Spraying of Vermi-wash ➧ Application of Neem cake, botanical pesticides ➧ Use of pheromone traps, bird perches for control of pest and diseases in Paddy
2	Integrated Water Management (IWM)	➧ Bunds across slope ➧ Cultivation across the slope ➧ Minimum tillage operations ➧ Drip irrigation ➧ Sprinkler irrigation ➧ Aerobic rice cultivation ➧ SRI method
3	Indigenous technical Knowledge (ITKs)	➧ Innovative indigenous planting in Coconut which will accommodate 60 plants in 0.5 acre ➧ Spraying of Cattle urine, Sour buttermilk, Chilli and Garlic paste to control pest and diseases ➧ Use of cats and dogs for control of rats, rodents and insects. ➧ Provided shade for cattle shed with climbing vegetable plants ➧ Spraying of herbal mix along with cow urine to Paddy against stem borer and BPH.
4	Bio-fertilizers	➧ Use of *Trichoderma viridae* and PSB for enrichment and fast degradation of the compost. ➧ Use of *Azolla* for higher nitrogen fixation in paddy fields and as a supplement feed for the cattles ➧ Use of *Rhizobium* and *Trichoderma* for seed treatment in Redgram

5. Memberships / office bearer in Local Organizations

- Member of Krishika Samaja, Davanagere
- Member of E-Grama information Centre, Kurki, Davanagere
- Member of Sri Nandi farm men Self Help Group (SHG), Kurki, Davanagere
- Member of Zilla Pragathipara Raithara Vichara Vedike (ZPRVV), Davanagere
- Member of School Development Management Committee, Kurki, Davanagere
- Member of Vyavasaya Parivarthana Sahakaara Sangha, Davanagere
- Accountant in Milk Producers Cooperative Society, Kurki, Davanagere

6. Agricultural Technology Dissemination to other Farmers

- He has conducted training programmes and group discussions on innovative technologies developed by him during weekly meeting of SHG.
- He has published popular article in Krishika bandhu on economics of dairy for the benefit of the farming community.
- He is performing as a resource person for KVK trainees when visited to his farm
- He has been recognized by the E-TV Annadata and the programmes on Drumstick nursery, Azolla cultivation, Dairy, Biogas and low cost scientific nursery have been telecasted.

.

Programme	Telecasted date
Drumstick nursery	1-8-07
Dairy and Biogas	26-8-07
Azolla cultivation	16-9-07

7. Market information and Technical know how about market

He has good contacts with different marketing agencies of Davanagere. Based on the market demand he will plan for the growing of vegetables. He will supply organically grown rice on demand to consumers.

8. Rain Water Harvesting system: Cultivation across the slope, contour Bunds across the slope and Live bunds for soil and water conservation.

9. Conservation / Management of Natural Resources

Soil: Soil conservation measures by construction of contour bunds and across the slope cultivation with live bunding.

Solar Energy: Harvesting solar energy efficiently by the way of multistoried cropping and composite copping.

Bio Energy: Through Bio gas unit the fuel energy requirement for single light and for cooking food for family.

Bio Mass: Efficient recycling of bio mass like Weeds, Green manures, Crop residues and Cow dung is done by different composting methods including Vermicomposting.

Medicinal Plants: Established some medicinal plants like Curry leaf, Neem, Ocimum, Calotrophis, Lantana, Mimosa, Pongamia and Bael.

Local breed: Conservation of the cow (Amruth mahal) and poultry

10. Honours and awards from other organizations: Won prize in quiz competition conducted by Community Based Tank Management Project Conservation Scheme, University of Agriculture Sciences, Bangalore during Krishi Mela 2005.

11. Other activities

a. Trainings attended:

Sl.No.	Title	Venue	Date	Duration
1.	Dairy farming	Rural Development and Self Employment Training Centre, Doddaullarthi, Chalkere	03-08-89 to 12-08-89	10 days
2.	Backyard poultry rearing	District Poultry Rearing and Training Centre, Davanagere	15-02-99 to 24-02-99	10 days
3.	Integrated Farming System	DATC, Kadajji	17-10-05	One week
4.	Processing of Agriculture Produce and marketing	Department of Agriculture, Davanagere	18-03-06	One day
5.	World Food Day	Kurki	16-10-06	One day
6.	Zero cultivation – Natural farming	Davanagere	15-07-06 to 20-07-06	6 days
7.	Inland Fish Farming	Taralabalu KVK, Davanagere	16-08-07	One day
8.	Improved cultivation in Ragi	Kurki	12-10-07	One day

b. Seminars attended:

Sl.No.	Title	Venue	Date	Duration
1.	Conservation of local breeds	Department of Veterinary and Animal Husbandry Sciences, Davanagere	13-12-06	One day
2.	Satellite based Agriculture - Scientists-Farmers interaction	Zilla Panchayath, Davangere	28-06-07	One day

c. Exposure visits to: i) Dr. Praphullachandra Farm, Shimoga

ii) Kallerudresh Farm, Medikeripura, Chitradurga

iii) Veerabhadrappa Farm, Chiradurga

iv) Krishimelas, UAS, Dharwad and Bangalore

v) World Cattle Conference, Ramchandrapura, Shimoga

12. Membership in Agriculture and Related Magazines and Journals

Magazines and Journals:

- Annadatha
- Krishiloka
- Karnataka Vyvasaya Patrike

Newspapers:

- Prajavani
- Janathavani
- Vijaya Karnataka

Success story 2.

TITLE: "A FARMER WHO BELIEVES AGRICULTURE IS LIFE MAKER"

Name : Sri S. Basavarajappa
Address : S/o. Sannahanumanathappa
Thurchghatta, Balavanur (Post)
Davanagere Tq. Dist

Sri S. Basavarajappa is a big farmer with 40 acres land holdings irrigated with bore well, out of which 10 acres of wasteland has been converted to horticulture crops viz., Papaya, Sapota, Banana, Pomegranate and Guava and remaining 30 acres under Arecanut, Coconut, Cardamom, Pepper, Cocoa, Vanilla, Paddy, Maize and Betel vine

Agriculture as a way of life runs in his family and obviously Basavarajappa hugged it with open arms. Given the nature of agriculture he was hit badly by the fluctuations be it the irregular rainfall, disheartening prices or lack of technical guidance. Basavarajappa being a shrewd learner quickly rectified agricultural practices through hard work and open attitude. He started to develop positive attitude towards every minute agricultural operations and spent longer hours in fields. Gradually he obtained technical guidance from various sources such as, Government Departments, State Agricultural Universities, Research Stations, Krishimelas, other progressive farmers and Taralabalu Krishi Vigyan Kendra. He has been very keen in associating himself with the activities of Krishi Vigyan Kendra since its inception. Krishi Vigyan Kendra has provided complete technical guidance to this innovative and daring farmer whenever and wherever necessary. After associating himself with Krishi Vigyan Kendra his horizon of thinking and as far as agriculture is concerned widened to greater range. This is exemplified in his recent innovative agriculture ventures like expanded dairy, check dam, enriched composting methods, scientific nurseries to name a few.

Significant activities:

1. **New composting methods**

a. Vermicomposting by different methods
   - Pit method
   - Concrete block method
   - Tank method
   - Vermiwash

b. Enrichment of compost with biofertilizers - *Trichoderma,* VAM.

2. **Organic farming :** Recently his farm has been certified as an Organic Farm by Phalahayi Foundation, Bangalore

3. **Integrated Farming System (IFS) :** He has realized the potential of Integrated Farming System and created a vast area under IFS. Agri + horti + Silvi + Medicinal plants+ Animal husbandry+ Pasture+ Aquaculture integrated system has been established.

4. **Dairy:** He has established a large scale dairy unit built in a scientific way.

Various crops cultivated:

Sl.No.	Crop/ Variety	Yield /ha
1.	Paddy- BPT sona	60 qt
2.	Coconut – Tiptur local	200 nuts/plant
3.	Arecanut – Teerthalli local	30 qt
4.	Patchouli – Johar	30 qt (dry leaves)
5.	Coleus – K-8	20 qt (dry leaves)
6.	Rose - Gladiator	2,50,000 flowers
7.	Cocoa- forestro	5 qt (dry leaves)
8.	Venila	--
9.	Pepper	--
10.	Cardamum	--
11.	Banana	--
12.	Sapota-Cricket ball	--
13.	Pomegranate	--
14.	Papaya	--
15.	Aloe Vera	--

Integrated farming systems:

Sl.No.	Farming System	Crops	Area (ha)
1.	Agriculture	Paddy, Maize, Field bean, Redgram	2.5
2.	Horticulture	Arecanut,+ Venilla + Cocoa+ Pepper + Cardamum + Rose + Arecanut + Banana + Betelvine	5
3.	Medicinal plants	Coconut + Patchouli+ Coleus + All Spice + Ammato + Aloe Vera	5
4.	Silvicuture	Silver oak, Teak, Survey, Glyricida	1
5.	Animal Husbandry	Buffalos (8) Cows (8) + Bullock pairs (2) Goats (20)	0.5
6.	Fresh water aquaculture	Catla + Common carp + Grass carp	1

Recent technologies like PDM, IWM, ITKs, and Bio-fertilizers

Sl. No.	Practices	Technologies followed
1	PDM	➢ Spraying of Vermi wash ➢ Application of Neem Cake to horticulture crops and also spraying of NSKE. ➢ Spraying of Bio digestible waste of Medicinal plants and weed plants.
2	IWM	➢ Hand weeding ➢ Inter cultivation with bullocks and tractor ➢ Mulching of weeds
3.	ITKs	➢ Mites- Spraying of mixture of garlic extract + Green chilli extract + Kerosene ➢ Preparation of Jeevambrutha by mixing Soil rich with Microflora, Maida dough, Jaggery solution, Cowdung slurry with water (200 litres)
4.	Bio-fertilizers	➢ Using Trichoderma for the enrichment of the compost. ➢ Using Azolla for higher nitrogen fixation in paddy cultivation ➢ Using *Rhizobium* culture for Red gram cultivation

Membership / Office bearers in local organizations

a) Pradhan, Mandal Panchayat Thurchagatta-1984
b) President, Zilla Panchayat, Davanagere-2003-04
c) Scientific Advisory Committee member- Taralabalu KVK, Davanagere

He has been awarded the best farmer of the district by UAS Bangalore (2005) for his innovative farm practices documented by Taralabalu KVK.

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

- **Farmers Group Meeting:** Taralabalu Krishi Vigyan Kendra conducted group meeting with farmers of all six taluks of the district inviting Gramapanchayat members and representative farmers of the area. The bottlenecks in agriculture and allied activities were identified through discussions and the same was used in planning the KVK activities for the year.

- **Radio Talks:** Taralabalu Krishi Vigyan Kendra scientists gave radio talks on burning problems prevalent in the district. This technology will reach large number of farmers within a short period of time.

- **TV Shows:** The technical interventions for burning problems of the major crops are disseminated through TV shows by the scientists. So these technologies will be tried by the large number of farmers in the district and other areas.

3.9 Details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Fish culture	Bag feeding method in tank fish culture	• Better growth • Efficient feed utilization • Less wastage of food
2	Paddy	Bird perches	By installing bird perches, it will facilitate birds to spend sometime in the field, mean while they feed on some insect pests which are harmful to crops. This will reduce the cost of insecticide spray.
3	Post harvest technology	Seed coating with red soil	To avoid egg laying by storage insect pests

3.10 The specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women : Linkages with line departments, field visits, group discussion meetings, diagnostic surveys, problem cause analysis, Participatory Rural Appraisal.

- Rural Youth : Field visits, diagnostic survey, questionnaires, group discussion meetings, Participatory Rural Appraisal
- In-service personnel : Through line departments, direct contact, field visits to problematic areas.

3.11 Field activities

i. Number of villages adopted : 12
ii. Number of farm families selected : 20
ii. No. of survey / PRA conducted : 01

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Building construction completed

1. Year of establishment : Lab yet to be established
2. List of equipments purchased with amount : --

3. Details of samples analyzed so far : Using mobile kit soil and water samples have been tested.

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	210	175	45	13029
Water Samples	48	30	20	1175
Total	**258**	**205**	**65**	**14204**

4.0 IMPACT

4.1. Impact of KVK activities: Based on group discussion

Name of specific technology / skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs. / Unit)	After (Rs. / Unit)
Improved composting methods	550	63 %	2300	6000
Dairy (Clean Milk Production)	3903	52 %	220 / Day / HF Cow 45 / Day / Local	250 / Day / HF Cow 72 / Day / Local
IPM in Paddy	42	25 %	9,950 / ac	12,490 / ac
Groundnut Stripper	50	35 %	48 / Day	90 / Day

4.2. Cases of large scale adoption: Nil

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

Name of specific technology / skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs. / Unit)	After (Rs. / Unit)
Dairy (Clean Milk Production)	3903	52 %	220 / Day / HF Cow 45 / Day / Local	250 / Day / HF Cow 72 / Day / Local
Groundnut Stripper	50	35 %	48 / Day	90 / Day

5.0 LINKAGES

5.1 Functional linkage with different organizations

Name of Organization	Nature of Linkage
University of Agricultural Sciences, Bangalore and Dharwad	Technology transfer, Knowledge update, Bi monthly meeting, Field trials
Karnataka University of Veterinary, Animal and Fishery Sciences, Bidar	Technology transfer
Agricultural Research Station, Nagenahalli, UAS, Bangalore	FLD in Maize
Agricultural Research Station, Kattalagere, UAS, Bangalore	Knowledge update, Technology transfer
ZARS, VC Farm, Mandya	FLD in Sugarcane
Agricultural Technology Information Centre, Hebbal, UAS-B	Supply of seed materials and technical books
Shimoga Milk Union Limited, Machenahalli, Shimoga	Sponsored trainings
Pest Control of India, Bangalore	Demonstration of pheromone traps in FLDs

Indian Institute of Horticulture Research, Bangalore	Trainings, Supply of seed materials. Technical support.
Department of Agriculture	Trainings to farmers, field visits, Bi monthly meeting. Agriculture surveying
Department of Horticulture	Trainings to farmers, field visits, diagnostic survey
Department of Fisheries	Trainings to farmers, field visits
Department of Forestry	Supply of Forest seedlings
Department of Women and Child Welfare	Trainings to SHG s and Anganawadi workers.
District Industries Centre	Training programme
Karnataka State Seed Corporation	Supply of seed materials for FLDs
Department of Social Welfare	Programme Participation
Karnataka Oil seeds federation	Supply of seed materials for FLDs and Trainings to farmers
District Statistical Information Centre	Collection of Basic information of the district
KRVP, Bangalore	Environmental Awareness Campaign Programme
Canara bank, State Bank of India, Shiva Sahakari Bank, SBM	SHGs A/C and KVK A/C

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.)
Clean milk production	December 2006	Zilla Panchayth, Davanagere	2,37,500
Production technology of vegetable crops	December 2006	KSDH, Davanagere	20,000

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district: **No**

5.4 Details of programmes implemented under National Horticultural Mission: Projects submitted

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1	Training programme proposal submitted	100 percent finance	Proposal is being processed

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm): Nil

6.2 Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Maize	30-5-06	10-10-06	3	Private hybrids	Seeds	112.70 q	12000	67841	--
Maize (Summer)	25-11-06	30-4-07	1	Private hybrids	Seeds	44.18 q	3890	26605	--
Pulses									
Red gram	15-6-06	30-12-07	1	JS-1	Seeds	1.94 q	1950	3332	--
Oilseeds									
Sunflower	5-1-07	7-4-07	0.3	KBSH 44	Seeds	1.60 q	1650	3152	--
Fibers									
Cotton	17-7-06	Jan 2nd week	0.4	MRC 6918	Lint	4.78 q	2800	11147	--
Fruits									
Mango	1998	April 2007	2	Alfanso	Fruits	556 kg	875	5310	--
Vegetables									
Cabbage	12-1-07	13-4-07	1 gunta	Private hybrids	Head	435 kg	250	870	--
Tomato	20-7-06	November	2 gunta	Private hybrids	Fruits	110 kg	1000	5352	--
Tomato	23-3-07	July	1 gunta	Private hybrids	Fruits	571 kg	785	4011	--
Chilli	25-3-07	17-07-07	2 gunta	Private hybrids	Fruits	370 kg	750	2960	--
Commercial Crops									
Sugarcane (Ratoon)	October 05	Nov. 06	0.6	CO 7804	Cane	43.471 t	6000	48861	

Seed Production									
Red gram	2-7-06	15-1-07	0.5	JS-1	Seeds	1.60 q.	750	2656	Supplied to KSSC, DVG
Sugarcane	20-1-07	13-9-07	1 gunta	CO 86032	Setts	9 tons	--	11700	Supplied to FLD farmers
Fish	1-7-07	17-7-07	1 gunta	Common carp	Fingerlings	16000 No.	2500	5170	Supplied to FLD farmers

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

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Fish	Common carp	Fingerlings	16000 No.	2500	5170	Supplied to FLD farmers

6.5 Utilization of hostel facilities: Nil

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	Canara Bank	Davanagere	SB A/c: 9860
With KVK	Canara Bank	Davanagere	SB A/c: 10144 SB A/c: 10145

7.2 Utilization of funds under FLD on Oilseed *(Rupees)*

Item	Released by ICAR		Expenditure		Unspent balance as on 31.3.07
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Opening Balance as on 1.4.2006					**66**
Inputs	41935	0	41984	19735	- 19784
Extension activities	5999	0	5995	3005	-3001
TA/DA/POL etc.	9000	0	9000	4495	-4495
TOTAL	**56934**	**0**	**56979**	**27235**	**-27280**
Closing Balance as on 31.3.2007					**-27214**

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

Item	Released by ICAR		Expenditure		Unspent balance as on 31.3. 2007
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Opening Balance as on 1.4.2006					**77**
Inputs	0	0	0	17125	-17125
Extension activities	0	0	0	2499	-2499
TA/DA/POL etc.	0	0	0	3747	-3747
TOTAL	**0**	**0**	**0**	**23371**	**-23371**
Closing Balance as on 31.3.2007					**-23294**

7.4 Utilization of funds under FLD on Cotton *(Rupees)*

Item	Released by ICAR		Expenditure		Unspent balance as on 31.3.2007
	Kharif 2006	Rabi 2006 -07	Kharif 2006	Rabi 2006-07	
Opening Balance as on 1.4.2006					**0**
Cotton: 50 Acres					
Essential Inputs @ Rs. 1400 Per Demon. Per Acre	0	70000	0	69404	596
POL/Veh. Hiring / Meals / Printed Materials, etc. @ Rs. 600 / Acre	0	30000	0	29965	35
TOTAL	**0**	**100000**	**0**	**99369**	**631**
Closing Balance as on 31.3.2007					**631**

7.5 Utilization of KVK funds during the year 2006 -07 (previous year)

S. No.	Particulars		Sanctioned	Released	Expenditure
Opening Balance as on 01-04-2006					**261385.26**
A. Recurring Contingencies					
1	Pay & Allowances		2500000	2238614	2425118.00
2	Traveling allowances		100000	100000	99807.80
3	Contingencies		250000	250000	244018.91
	i	Office Contingency	90000	90000	89990.00
	ii	POL/Repair of Vehicles	55000	55000	54998.91
	iii	Stipend / Meals for Trainees	25000	25000	24999.50
	iv	Teaching / Demonstration Materials	10000	10000	9998.50
	v	FLD (Other than Oilseeds and Pulses)	35000	35000	34989.00
	vi	OFT	20000	20000	18685.00
	vii	Training to Extension Functionaries	10000	10000	5360.00
	viii	Maintenance of Buildings			
	ix	Est. of Soil, Plant and Water Testing Lab.			
	x	Maintenance of Library	5000	5000	4998.00
TOTAL (A)			**2850000**	**2588614**	**2768944.71**
B. Non-Recurring Items:					
1	**Works**		4643000	4643000	4643000.00
	i	Administrative Building	2095000	2095000	2095000.00
	ii	Farmers Hostel	1255000	1255000	1255000.00
	iii	Staff Quarters	1293000	1293000	1293000.00
2	Office Equipments (Computer +LCD)		100000	100000	100000.00
3	Establishment of Library		10000	10000	9719.00
TOTAL (B)			**4753000**	**4753000**	**4752719.00**
TOTAL (A+B)			**7603000**	**7341614**	**7521663.71**
Closing Balance as on 01.04.2007					**81335.55**

7.5 [b] Utilization of KVK funds during the year 2007 -08 (Up to Sep.07) [Rupees]:

S. No.	Particulars		Sanctioned	Released	Expenditure
Opening Balance as on 01-04-2007					**81335.55**
A. Recurring Contingencies					
1	Pay & Allowances		2700000	1268665	1251790.00
2	Traveling allowances		100000	50000	45609.70
3	Contingencies		600000	300000	241839.04
	i	Office Contingency	186000	93000	120742.70
	ii	POL/Repair of Vehicles	96000	48000	38718.34
	iii	Stipend / Meals for Trainees	78000	39000	5134.00
	iv	Teaching / Demonstration Materials	72000	36000	9825.00
	v	FLD (Other than Oilseeds and Pulses)	75000	37500	37552.00
	vi	OFT	36000	18000	26100.00
	vii	Training to Extension Functionaries	24000	12000	0.00
	viii	Maintenance of Buildings	24000	12000	0.00
	ix	Est. of Soil, Plant and Water Testing Lab.			
	x	Maintenance of Library	9000	4500	3767.00
TOTAL (A)			**3400000**	**1618665**	**1539238.74**
B. Non-Recurring Items:					
1	**Works**		3300000	0	0.00
	i	Administrative Building	1300000	0	0.00
	ii	Farmers Hostel	1000000	0	0.00
	iii	Staff Quarters	1000000	0	0.00
2	Furniture / Fixture / Fittings		0	0	0.00
3	Establishment of Library		0	0	0.00
TOTAL (B)			**3300000**	**0**	**0.00**
TOTAL (A+B)			**6700000**	**1618665**	**1539238.74**
Closing Balance as on 30.09.2007					**160761.81**

7.6 Status of revolving fund (Rs. in lakhs):

Year	Opening balance as on 1.04.2004	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2004 to March 2005	0.000	1.000	0.000	1.000
April 2005 to March 2006	1.000	0.008	0.681	0.327
April 2006 to March 2007	0.327	2.203	1.977	0.553
April 2007 to Sep. 2007	0.553	1.135	1.396	0.292

8.0 Information which has not been reflected above

- KVK has been documenting the farm practices of innovative progressive farmers in the district. Among them, two farmers have been awarded **best farmers of the district** by UAS, Bangalore during 2005 and 2006 Krishi Mela.
- An FSHG sponsored by KVK has been running a convent school at Siddanamata, Channagiri Tq; Two FSHGs run sales outlets of organic rice at Kurki and Avaragare, Davanagere Tq.
- HRD activities of KVK scientists is enclosed in annexure 6.

8.1 Constraints

(a) Administrative:

1. Encourage quarterly progress report
2. Service in NGO KVK should be recognized as good as university KVK
3. Institutionalize the KVK

(b) Financial

1. Timely release of grants particularly for oilseed and pulse crops

(c) Technical

1. Regular HRD workshops for scientists of KVK to update their knowledge
2. Establishment of Meteorological Unit at KVK

(d) Others

1. Transportation facilities: One mini bus for farmers
2. Two Bikes

SUMMARY TABLES

1 Details of Technology assessment and refinement

Table 1A: Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber crops	TOTAL
Seed / Plant production		1								1
Integrated Nutrient Management	1			1						2
Integrated Pest Management				1						1
Integrated Disease Management					1					1
TOTAL	**1**	**1**	**--**	**2**	**1**	**--**	**--**	**--**	**--**	**5**

Table 1 B; Abstract on the number of technologies refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Crop Management		1								1
Integrated Nutrient Management	1			1						2
Integrated Pest Management				1						1
Integrated Disease Management					1					1
TOTAL	**1**	**1**		**2**	**1**					**5**

Table 1 C: Abstract on the number of technologies assessed in respect of livestock enterprises: Nil

Table 1 D: Abstract on the number of technologies refined in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitary	Fisheries	TOTAL
Nutrition Management	--	--	--	--	1	1
TOTAL					**1**	**1**

Table – 1 E: Details of technology refined

Crop / Enterprise	Technology Assessed	No. replications	Technology refined	Result justifying the refinement
Fish	--	2	Rice bran, Groundnut oil cake, soy and maize flour and vitamin mineral mix	Refined practice performed better than the traditional practice and resulted in higher yield
Paddy	Recommended practice: $ZnSO_4$ application @ 20 kg / ha	5	Application of copper ore tailings @ 0.5 t / ha	Alternate practice and recommended practice gave same BC ratio. Yield is more in alternate practice. Growth was healthy in alternate practice compared to others.
Sunflower	Recommended practice: For higher yield, keep 5 colonies of *Apis cerana* / ha	1	Replacement of 5 colonies of *Apis cerana* with 2 colonies of *Apis mellifera*/ ha	Alternate practice and recommended practices are almost same. But the cost involved in honey bee colony is more and there is swarming of honey bees resulted in poor honey production.
Cotton	Recommended practice (RDF, DAP spray @ 2% and $MgSO_4$ spray @ 1%)	5	Application of $MgSO_4$ to soil @ 25 kg/acre along with recommended practice (RDF, DAP spray @ 2% and $MgSO_4$ spray @ 1%)	Refined practice controlled 90 % leaf reddening and gave higher yield. In soils where ever Mg deficiency is expressed in previous years needs Mg application
Onion	Recommended practice: Foliar spray of Dithane M -45 @ 2.5 g/L	5	Seed treatment with *Trichoderma viridae* @ 4 g / kg of seed	Disease incidence in alternate practice is low when compared with other practices
Sugarcane	Recommended practice: 3’ row spacing	5	2’ row spacing, 4’ paired rows with beans as an intercrop	Incidence of woolly aphid was not observed in the alternate practice and resulted in good yield and income, besides an additional income from field bean

2. Details of Frontline Demonstrations

Table – 2 A Front Line Demonstrations on Oilseed Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield (q /ha)	Local Check (q /ha)	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		
Sunflower Kharif	Integrated Nutrient Management	21	10	7.0	6.03	16.05	Seed filling – 90 % Growth-Healthy	Seed filling – 75 % Poor growth	2000	2.23
Rabi	Integrated Nutrient Management	10	05	16.13	11.65	38.05	Seed filling – 90 % Growth-Healthy	Seed filling – 75 % Poor growth	12910	2.34
Groundnut Kharif	Integrated Crop Management	23	10	9.67	7.21	34.12	--	--	5400	2.45
Rabi	Integrated Crop Management	08	05	15.56	10.56	47.4	--	--	12910	2.11

Table – 2 B Front Line Demonstrations on Pulse Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield (q /ha)	Local Check (q /ha)	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		
Bengal gram	Integrated Pest Management	17	10	6.18	4.81	32.78	--	--	8163	2.03

Table – 2 C Front Line Demonstrations on Cotton

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield (q /ha)	Local Check (q /ha)	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		
Cotton	Production Technology	50	20							
		Rainfed	18.6	14.8	10.21	44.96	--	--	25200	3.12
		Irrigated	1.4	18.33	14.00	30.93	--	--	33225	3.64

Table – 2 D Front Line Demonstrations on Other Crops

Crop	Technology Demonstrated	No. of Farmers	Area (ha.)	Demo. Yield (q/ha)	Local Check (q/ha)	Increase in yield (%)	Data on parameter in relation to technology demonstrated		Average Net Return (Profit) (Rs./ha)	Benefit-Cost Ratio (Gross Return / Gross Cost)
							Demo	Local		
Maize	Integrated Nutrient Management	13	06	44.87	38.0	18.08	Healthy growth Seed yield is high	Poor growth	16180	1:1.9
Wheat	Saline soil management	04	01	7.63	3.49	118.6	Healthy growth Seed yield is high	Poor growth	3137	1.94
Ragi	Popularization of GPU-48	20	08	20.96	16.59	26.34	--	--	12280	3.73
Paddy	Insect Pest Management	05	02	55.5	48.25	15.02	--	--	20025	2.91
Sugarcane	Insect Pest Management	04	04	75.12	69.85	7.02	--	--		2.55
Fish	Integrated Fish Polyculture in Inland ponds	05	1.2	36	--	--	--	--		1.84

Table – 2 E Front Line Demonstrations on Other enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Size of Unit	Parameter indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
						Demon.	Local check		
Groundnut Stripper	--	16	1	--	Time consumption	22.5 kg / hr	12 kg / hr	87.5	In addition to time and labour saving, farm women expressed that body pain and injuries are also reduced.
					labour consumption	720 kg / machine (4 labours / day)	720 kg / 7.5 labours / day		
Decorticator	--	46	3	--	Time consumption	10.75 kg / hr	1.5 kg / hr	616.66	In addition to time and labour saving, farm women expressed that body pain and injuries are also reduced.
					labour consumption	86 kg / day / labour	86 kg / day / 7.17 labour		

3. Details of training programmes conducted

Table – 3 A Area-wise distribution of On + Off Campus Training Courses for Farmers and Farm Women (regular + sponsored)

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
Crop Production								
Weed Management	02	22	16	38	05	08	13	51
Crop Diversification	04	110	06	107	09	04	13	129
Integrated Crop Management	08	134	03	126	11	11	22	159
Horticulture								
a) Vegetable Crops								
Production of low value and high volume crop	06	113	18	131	29	06	35	166
d) Plantation crops								
Production and Management technology	01	10	--	10	--	--	--	10
Soil Health and Fertility Management								
Soil fertility management	04	74	--	74	08	--	08	82
Integrated nutrient management	07	70	--	70	09	01	10	80
Micro nutrient deficiency in crops	04	57	02	59	05	--	05	64
Livestock Production and Management								
Dairy Management	94	2333	968	3301	400	202	602	3903
Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	01	09	33	42	--	--	--	42
Design and development of low/minimum cost diet	01	--	13	13	--	--	--	13
Processing and cooking	04	13	26	39	05	06	11	50
Storage loss minimization techniques	01	--	02	02	03	08	11	13

Value addition	07	--	74	74	--	05	05	79
Women empowerment	01	--	14	14	--	09	09	23
Location specific drudgery reduction	02	19	18	37	01	01	02	39
Post Harvest Technology	01	--	11	11	--	10	10	21
Plant Protection								
Integrated Pest Management	07	59	21	80	12	--	12	92
Integrated Disease Management	03	42	--	42	06	--	06	48
Bio-control of pests and diseases	01	14	01	15	04	--	04	19
Fisheries								
Integrated fish farming	04	60	--	60	03	--	03	63
Others								
Mushroom cultivation	04	28	01	29	14	04	18	47
Dry land horticulture	03	33	--	33	--	--	--	33
Participatory Rural Appraisal	02	24	14	38	05	01	06	44
Income Generating Activities	02	--	26	26	--	15	15	41
Rural Development Suvarna Grama Yojana Planning	01	03	01	04	02	01	03	07
TOTAL (3 A)	**175**	**3227**	**1268**	**4475**	**531**	**292**	**823**	**5298**

Table – 3 B Area-wise distribution of On + Off Campus Training Courses for Rural Youth (regular + sponsored + vocational)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Dairy	01	14	--	14	04	--	04	18
TOTAL (3 B)	**01**	**14**	**--**	**14**	**04**	**--**	**04**	**18**

Table – 3 C Area-wise distribution of On + Off Campus Training Courses for In-service Extension Personnel (regular + sponsored)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
Integrated Pest Management	05	15	--	15	03	--	03	18
TOTAL (3 C)	**05**	**15**	**--**	**15**	**03**	**--**	**03**	**18**
TOTAL (3A+3B+3C)	**181**	**3256**	**1268**	**4504**	**538**	**292**	**830**	**5354**

4. Details on Extension Activities

Table – 4 Numbers of Extension Activities and Beneficiaries

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	144	29	173	--	--	--	144	29	173
Film Show	96	2746	1176	3922	--	--	--	2746	1176	3922
Method Demonstrations	169	3308	1350	4658	26	15	41	3334	1365	4699
Workshop / Bi-monthly workshop	2	75	--	75	--	--	--	75	--	75
Lectures delivered	21	1125	379	1504	28	7	30	1153	386	1539
Newspaper coverage	89	--	--	--	--	--	--	--	--	--
Radio talks	4	--	--	--	--	--	--	--	--	--
TV talks	23	--	--	--	--	--	--	--	--	--
Scientific / Popular articles	5	--	--	--	--	--	--	--	--	--
Extension Literature/ leaflets	6	2770	1176	3946	--	--	--	2770	1176	3946
Advisory Services	135	131	04	135	--	--	--	131	4	135
Scientific visit to farmers field	229	220	09	229	--	--	--	220	9	229
Farmers visit to KVK	157	142	15	157	--	--	--	142	15	157
Exposure visits	2	--	--	--	--	--	--	--	--	--
Trainers training	1	--	--	--	--	--	--	--	--	--
Soil test campaigns	1	47	--	47	--	--	--	47		47

Self Help Group Conveners meetings	1	15	--	15	--	--	--	15		15
Mahila Mandals Conveners meetings	--	--	--		--	--	--			
Participatory Rural Apprisal	1	110	60	170	--	--	--	110	60	170
Scientific field survey on pond fish culture practices	1	10		10	--	--	--	10		10
Meeting with Honorable Agril. Minister Govt. of Karnataka	1	--	--	--	--	--	--	--	--	--
Celebration of important days										
World Food Day 16th October 2006	1	18	14	32	--	--	--	18	14	32
Women in Agriculture Day 4th December 2006	1	--	24	24	--	--	--	--	24	24
Kisan Samman Divas 23rd December 2006	1	39	--	39	--	--	--	39	--	39
National Science Day 28th February 2007	1	48	02	50				48	02	50
World Kitchen Garden Day 26th August 2007	1	33	09	42	--	--	--	33	09	42
Wall Posters	3	180	55	235	--	--	--	180	55	235
Technical Book	1	788	170	958	--	--	--	788	170	958
Conference	3	--	--	--	--	--	--	--	--	--
Total	**960**	**11949**	**4472**	**16421**	**54**	**22**	**76**	**12003**	**4494**	**16497**

5. Details on Seeds and Planting materials, bio-products and live stock materials produced

Table – 5 A Productions of Seeds

Sl. No.	Crop	Quantity (q)	Value (in Rs.)	Provided to No. of Farmers
I. PULSES				
1	Red gram (JS-1)	1.60	2656	Supplied to KSSC, Davanagere
II. COMMERCIAL CROPS				
1	Sugarcane (CO86032)	9 tons	11700	Supplied to FLD farmers (4)

SUMMARY

Sl. No.	Crop	Quantity (qtl.)	Value (in Rs.)	Provided to No. of Farmers
I	**PULSES:** Red gram	1.60	2656	Supplied to KSSC, Davanagere
II	**COMMERCIAL CROPS:** Sugarcane	9 tons	11700	Supplied to FLD farmers (4)
TOTAL			**14356**	

Table – 5 B Production of planting/seedling materials of Fruits/Vegetables/Forest Species

Sl. No.	Category	Crop	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I. VEGETABLES					
1	Seedlings	Drumstick	250	2500	40 Farmers

SUMMARY

Sl. No.	Crop	Quantity (Nos.)	Value (in Rs.)	Provided to No. of Farmers
I	**VEGETABLES**	250	2500	40 Farmers

Table –5 C Production of bio products: Nil

Table 5 D Livestock materials

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
IV. FISHERIES	Fish fingerlings	Common carp, Rohu, Catla	16000	--	5170	6 FLD farmers

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos.	Kgs.		
1	FISHERIES	Common carp, Catla, Rohu	16000	--	5170	6 FLD farmers

Annexure 1

Details of FLDs implemented during Kharif 2007-08

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Status
					Proposed	Actual	SC/ST	Others	Total	
Cereals										
1	Maize	Crop production and nutrient management	Introduction of new hybrid (NAC 6004), Intercropping and Integrated Nutrient Management	Kharif 2007-08	05	05	02	10	12	Crop is at maturity stage, Cob is drying, Redgram is at flowering stage
2	Paddy	Insect pest management	Integrated Pest Management	Kharif 2007-08	02	02	0	03	03	Crop is 2 ½ months old, Installed pheromone traps for monitoring of stem borer, Carbofuron 4 g@ 5 kg / ac granules were applied
3	Paddy	Water management	Aerobic rice cultivation	Kharif 2007-08	02	02	0	03	03	Crop is 2 ½ month old
4	Ragi	Crop production	Popularization of HYV GPU - 48	Kharif 2007-08	10	10	12	12	24	Seed filling stage, Conducted Field Day
Horticulture crops										
1	Tomato	Disease management	Popularization of TLCV resistant variety Sankranthi	Kharif 2007-08	02	02	0	10	10	Crop is at fruiting stage, Conducted Field Day
2	Onion	Crop production	Popularization of Arka Kalyan	Kharif 2007-08	02	02	01	09	10	Crop is 2 ½ months old

3	Brinjal	Insect pest management	Integrated Pest Management	Kharif 2007-08	01	01	0	05	05	Completed transplanting, Installed water traps for shoot and fruit borer
Oil Seeds										
1	Groundnut	Crop production	Popularization of GPBD - 4	Kharif 2007-08	05	05	02	10	12	Crop is at pod formation stage, Conducted Field Day
Pulses										
1	Redgram	Insect pest management	Integrated Pest Management in BRG - 1	Kharif 2007-08	05	05	0	10	10	Crop is at flowering stage, Installed Ha pheromone traps
Cotton										
1	Cotton	Crop production	Production Technology	Kharif 2007-08	20	20	06	44	50	Crop is at square and boll formation stage, installed *Ha* pheromone traps, demonstrated use of trap crops, micro nutrients and growth regulators
Commercial crops										
1	Sugarcane	Insect pest management	Popularization of Woolly aphid resistant variety CO - VC 2003 - 165	Kharif 2007-08	01	01	01	02	03	Completed planting with wider row spacing (4 feet).
2	Sugarcane	Crop production and insect pest management	Popularization of HYV CO 86032 and woolly aphid management	Kharif 2007-08	02	02	0	03	03	Completed planting, crop is 2 ½ months old

Others										
1	Fisheries	Fish poly culture	Integrated Inland Pond Aquaculture	Kharif 2007-08	1.2	1.2	0	06	06	Fishes are 3 months old

Details of ON FARM TEST s implemented during Kharif 2007-08

Sl.No	Crop	Title	No of trials	Status
1	Paddy	Use of COT for Micronutrient Management	10	Crop is 2 months old
2	Onion	Purple blotch management	10	Crop is maturity stage
3	Sugarcane	Use of COT for Micronutrient Management	10	Crop is 2 months old

Details of Collaborative demonstrations during Kharif 2007-08

Sl. No.	Season & Year	Crop/ Enterprises	Area (ha)		No of farmers			Status
			Sanctioned	Implemented	SC/ST	Others	Total	
1	Kharif 2007-08	Maize NAC-6004 composite var. and Nityashree hybrid	4.8	4.8	04	08	12	Collaboration with ARS, Nagenahalli UAS, Bangalore Crop is at maturity stage

Annexure 2

SPONSORED TRAINING PROGRAMMES

Sl.No	Title	Training Type	Participant Type	Discipline	Duration (Days)	No. of Participants				Sponsoring Agency
						Male		Female		
						Others	SC/ST	Others	SC/ST	
December 2006										
1	Clean Milk Production at Nanditavare	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	6	-	28	13	SHIMUL, Shimoga
2	Clean Milk Production at Halebathi A	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	17	3	4	1	SHIMUL, Shimoga
3	Clean Milk Production at Nagenahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	14	-	12	-	SHIMUL, Shimoga
4	Clean Milk Production at Belludi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	31	3	-	-	SHIMUL, Shimoga
5	Clean Milk Production at Shamshipura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	44	20	19	12	SHIMUL, Shimoga
6	Clean Milk Production at Halasabalu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	17	1	12	5	SHIMUL, Shimoga
7	Clean Milk Production at S.N.Pura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	17	-	16	-	SHIMUL, Shimoga
8	Clean Milk Production at Salekatte	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	21	12	-	-	SHIMUL, Shimoga
9	Clean Milk Production at Kadlegundi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	7	2	5	22	SHIMUL, Shimoga

10	Clean Milk Production at Bannikodu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	5	12	9	14	SHIMUL, Shimoga
11	Clean Milk Production at K.Bevinahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	53	5	-	-	SHIMUL, Shimoga
12	Clean Milk Production at Banuvalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	18	8	7	3	SHIMUL, Shimoga
13	Clean Milk Production at Kamalapura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	24	12	-	-	SHIMUL, Shimoga
14	Clean Milk Production at Elehole	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	18	10	5	3	SHIMUL, Shimoga
15	Clean Milk Production at Bilasanur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	52	6	5	2	SHIMUL, Shimoga
16	Production technology of vegetable crops at Pallagatte	Off Campus	Farmers, Farm Women & Rural Youth	Horticulture	01	27	10	--	--	KSDH, Davanagere
17	Production technology of vegetable crops at Siddanamata	Off Campus	Farmers, Farm Women & Rural Youth	Horticulture	01	35	10	--	--	KSDH, Davanagere
18	Production technology of vegetable crops at Kurenaganahalli	Off Campus	Farmers, Farm Women & Rural Youth	Horticulture	01	20	3	15	3	KSDH, Davanagere
Total					**31**	**426**	**90**	**39**	**42**	**-**

Sl.No	Title	Training Type	Participant Type	Discipline	Duration (Days)	No. of Participants				Sponsoring Agency
						Male		Female		
						Others	SC/ST	Others	SC/ST	
January 2007										
19	Clean Milk Production at H. Basavapura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	30	8	12	-	SHIMUL, Shimoga
20	Clean Milk Production at Hucchavanahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	9	4	19	7	SHIMUL, Shimoga
21	Clean Milk Production at Karilakkenahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	3	8	9	18	SHIMUL, Shimoga
22	Clean Milk Production at Echagatta	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	17	-	14	1	SHIMUL, Shimoga
23	Clean Milk Production at Ganganarasi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	-	-	22	5	SHIMUL, Shimoga
24	Clean Milk Production at Amaravathi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	3	3	15	13	SHIMUL, Shimoga
25	Clean Milk Production at Beeragondanahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	48	5	-	-	SHIMUL, Shimoga
26	Clean Milk Production at Rampura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	33	1	6	-	SHIMUL, Shimoga
27	Clean Milk Production at Sasvehalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	47	-	-	-	SHIMUL, Shimoga
28	Clean Milk Production at Kundur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	39	7	-	-	SHIMUL, Shimoga

29	Clean Milk Production at Koolambi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	45	10	7	-	SHIMUL, Shimoga
30	Clean Milk Production at Benakanahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	55	7	6	1	SHIMUL, Shimoga
31	Clean Milk Production at Kammaragatta	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	40	3	12	-	SHIMUL, Shimoga
32	Clean Milk Production at Alur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	24	2	-	-	SHIMUL, Shimoga
33	Clean Milk Production at Kandanakovi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	29	3	2	1	SHIMUL, Shimoga
34	Clean Milk Production at Govinakovi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	45	5	26	4	SHIMUL, Shimoga
35	Clean Milk Production at Kuruva	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	10	-	21	9	SHIMUL, Shimoga
January 2007										
36	Clean Milk Production at Kotehal	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	32	7	18	5	SHIMUL, Shimoga
37	Clean Milk Production at Dodderi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	37	3	19	3	SHIMUL, Shimoga
38	Clean Milk Production at Chikkadakatte	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	39	-	15	3	SHIMUL, Shimoga
39	Clean Milk Production at Hosamalali	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	42	4	4	-	SHIMUL, Shimoga

40	Clean Milk Production at Balmuri	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	29	2	35	2	SHIMUL, Shimoga
41	Clean Milk Production at Holeharalalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	40	4	7	1	SHIMUL, Shimoga
Total						**721**	**89**	**302**	**79**	**-**
February 2007										
42	Clean Milk Production at Hale joga	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	05	-	25	02	SHIMUL, Shimoga
43	Clean Milk Production at Hosa Joga	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	05	-	27	05	SHIMUL, Shimoga
44	Clean Milk Production at Karekatte	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	02	-	34	-	SHIMUL, Shimoga
45	Clean Milk Production at Nilogallu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	-	-	28	06	SHIMUL, Shimoga
46	Clean Milk Production at Bavihal	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	37	01	-	-	SHIMUL, Shimoga
47	Clean Milk Production at Annpura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	35	01	01	-	SHIMUL, Shimoga
48	Clean Milk Production at Hindasagatta	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	29	04	08	02	SHIMUL, Shimoga
49	Clean Milk Production at G.T . K.atte	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	12	01	26	03	SHIMUL, Shimoga
50	Clean Milk Production at Malebennur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	13	01	23	01	SHIMUL, Shimoga

51	Clean Milk Production at Vaasaana	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	15	01	06	01	SHIMUL, Shimoga
52	Clean Milk Production at Maadapura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	03	01	39	13	SHIMUL, Shimoga
February 2007										
53	Clean Milk Production at Kodathalu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	23	-	08	-	SHIMUL, Shimoga
54	Clean Milk Production at Suragondanakoppa	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	38	04	07	02	SHIMUL, Shimoga
55	Clean Milk Production at Chinnikatte	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	26	-	-	-	SHIMUL, Shimoga
56	Clean Milk Production at Mahajenahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	20	10	19	02	SHIMUL, Shimoga
57	Clean Milk Production at Kunibelekere	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	22	05	18	-	SHIMUL, Shimoga
58	Clean Milk Production at Hatturu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	29	-	11	-	SHIMUL, Shimoga
59	Clean Milk Production at Maadenahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	22	03	25	-	SHIMUL, Shimoga
60	Clean Milk Production at Soraturu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	40	15	3	-	SHIMUL, Shimoga
61	Clean Milk Production at Tuggalahlli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	40	-	11	-	SHIMUL, Shimoga

62	Clean Milk Production at Hosapaalya	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	15	1	16	02	SHIMUL, Shimoga
63	Clean Milk Production at Halepaalya	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	-	-	20	-	SHIMUL, Shimoga
64	Clean Milk Production at Savalanga	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	18	-	08	-	SHIMUL, Shimoga
65	Clean Milk Production at Bidarehalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	-	-	22	-	SHIMUL, Shimoga
66	Clean Milk Production at Malekumbalur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	27	29	-	02	SHIMUL, Shimoga
67	Clean Milk Production at Nelahonne	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	20	05	03	-	SHIMUL, Shimoga
68	Clean Milk Production at Yakkanahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	21	-	14	01	SHIMUL, Shimoga
69	Clean Milk Production at Arahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	29	03	06	01	SHIMUL, Shimoga
February 2007										
70	Clean Milk Production at Kadaranahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	21	03	05	-	SHIMUL, Shimoga
71	Clean Milk Production at Daginakatte	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	41	-	09	-	SHIMUL, Shimoga
72	Clean Milk Production at Hosakere	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	29	04	10	-	SHIMUL, Shimoga

73	Clean Milk Production at Nalkudare	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	47	01	02	-	SHIMUL, Shimoga
74	Clean Milk Production at Hirekogalur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	30	01	11	-	SHIMUL, Shimoga
Total					**36**	**747**	**94**	**445**	**43**	**-**
March 2007										
75	Clean Milk Production at Gummanur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	44	4	6	2	SHIMUL, Shimoga
76	Clean Milk Production at Mandalur	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	31	6	2	-	SHIMUL, Shimoga
77	Clean Milk Production at Hunasekatte	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	31	9	1	-	SHIMUL, Shimoga
78	Clean Milk Production at Haluvarthy	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	14	2	15	4	SHIMUL, Shimoga
79	Clean Milk Production at Hebbalu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	30	2	6	-	SHIMUL, Shimoga
80	Clean Milk Production at Naraganahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	19	8	-	1	SHIMUL, Shimoga
81	Clean Milk Production at Dyamenahalli	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	23	1	4	1	SHIMUL, Shimoga
82	Clean Milk Production at Kashipura	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	32	-	11	-	SHIMUL, Shimoga
83	Clean Milk Production at Kurki	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	34	2	16	-	SHIMUL, Shimoga
84	Clean Milk Production at Atthigere	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	23	2	-	-	SHIMUL, Shimoga
85	Clean Milk Production at Kaidhale	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	31	-	11	2	SHIMUL, Shimoga
86	Clean Milk Production at Huvinamadu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	9	25	-	-	SHIMUL, Shimoga

March 2007										
87	Clean Milk Production at Kodihalli Camp	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	3	-	26	1	SHIMUL, Shimoga
88	Clean Milk Production at Y.N Camp	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	-	-	27	-	SHIMUL, Shimoga
89	Clean Milk Production at Baskarrao Camp	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	26	4	-	-	SHIMUL, Shimoga
90	Clean Milk Production at Hosakundavada	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	18	9	-	-	SHIMUL, Shimoga
91	Clean Milk Production at Gudalu	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	45	-	7	-	SHIMUL, Shimoga
92	Clean Milk Production at Thumbigere	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	27	28	-	-	SHIMUL, Shimoga
93	Clean Milk Production at Siddanuru	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	34	-	-	-	SHIMUL, Shimoga
94	Clean Milk Production at Halebathi B	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	22	08	-	-	SHIMUL, Shimoga
95	Clean Milk Production at Doddabathi	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	21	08	-	-	SHIMUL, Shimoga
96	Clean Milk Production at K.N.Camp	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	24	06	-	-	SHIMUL, Shimoga
97	Clean Milk Production at Kabbala	Off Campus	Milk Producing farmers and farm Women	Animal Science	01	38	02	-	-	SHIMUL, Shimoga
Total					**27**	**636**	**135**	**132**	**11**	**-**

Annexure 3

Details of Method Demonstrations

Sl. No	Title	No.
1	Raised seed bed preparation in vegetable production	01
2	Treating raised seed bed with Trichoderma	01
3	Staking practice in Tomato	01
4	Use of Ha pheromone traps in Tomato	02
5	Onion seed treatment with Trichoderma	02
6	Application of micronutrient fertilizer and growth regulator in Cotton	03
7	Application of copper ore tailings in Paddy	01
8	Application of copper ore tailings in Sugarcane	01
9	Application of copper ore tailings in Paddy	01
10	Seed treatment in Groundnut with Rhizobium	01
11	Application of $MgSO_4$ in Cotton	02
12	Seed treatment in Sunflower with Azospirillum	01
13	Application of Boron in Sunflower	01
14	Installation of Ha Pheromone traps in Bengal gram	03
15	Spraying techniques	05
16	Sucker treatment in Banana	01
17	Mechanical methods of control against BHC in Sunflower	03
18	Release techniques of Sugarcane woolly aphid predators	05

19	Artificial feeding methods to hive honeybees	01
20	Imidacloprid seed treatment in Cotton	04
21	Trichoderma, Rhizobium and Cholorpyrifos seed treatment in Groundnut	01
22	Trichoderma seed treatment in Onion	05
23	Sowing techniques in Bt Cotton	02
24	Installation of water traps against fruit borer in Brinjal	02
25	Installation of sirpophaga incertulas pheromone traps in Paddy	02
26	Planting techniques in Sugarcane	02
27	Installation of Ha Pheromone traps in Bt Cotton	05
28	Separation of groundnut pods from plant using Groundnut stripper	02
29	Use of Groundnut decorticator for separating groundnut seeds from pods	02
30	Preparation of Ragi malt and ragi based beverages	02
31	Mushroom Production	01
32	Value added products of mushroom (Mushroom curry and Pakoda)	02
33	Preparation of mixed fruit jam and papaya and Guava nectar	01
34	Preparation of Agarabatti, Soap powder, Liquid soap, Soap oil, Utensil soap powder.	02
35	Value added products of Maize (Salad, Dosa, Chakli and Pakoda)	01
36	Value added products of Soabean (Soy milk, Dosa, Vada and Curry)	02
37	Safe storage of pulses (Bengal gram)	01
38	Demonstration of Saaf kit	94
Total		**169**

Annexure 4

Lectures Delivered

Sl.No	Title	Resource Person
1	Mushroom Cultivation	Dr. Rajakumara G.R
2	Sustainability in Agriculture	Dr. Devaraja T.N
3	Agro based enterprises for rural women and youths	Ms. Kavitha P
4	IPM in Paddy	Dr. Roopa S. Patil
5	Nutrient Management in Paddy	Dr. Rajakumara G.R
6	Pest control in oilseeds	Dr. Roopa S. Patil
7	Contract Farming	Dr. Rajakumara G.R
8	Opportunities in Mushroom Cultivation	Dr. Rajakumara G.R
9	Opportunities in Mushroom Cultivation	Dr. Rajakumara G.R
10	Importance of Organic Farming	Mr. Basavanagowda M.G
11	Role of women in Agriculture	Dr. Devaraja T.N
12	Clean Environment	Dr. Devaraja T.N
13	Kitchen garden and landscaping	Mr. Basavanagowda M.G
14	Pest management in Bt. Cotton, Sugarcane and Maize	Dr. Roopa S. Patil
15	Fish diseases and fisheries by products	Dr. Devaraja T.N
16	Integrated pest management	Dr. Roopa S. Patil
17	Plant protection in Maize	Dr. Roopa S. Patil

Annexure 5

TV PROGRAMMES TELECASTED IN E-TV ANNADATHA

Sl.No	Date	Title	Scientist
1	11-6-2007	Fish seed rearing	Dr. Devaraja T.N
2	18-6-2007	Irrigation water testing	Dr. Rajakumar G.R
3	20-6-2007	Fish seed stocking	Dr. Devaraja T.N
4	28-6-2007	Nursery techniques in vegetables	Mr. Mallikarjuna B.O
5	26-7-2007	Management of stem borer in Maize	Mr. Mallikarjuna B.O
6	27-7-2007	Integrated Fish Farming	Dr. Devaraja T.N
7	1-8-2007	Stem borer management in paddy nursery bed	Dr. Roopa S. Patil
8	1-8-2007	Seed treatment and nursery techniques in Drumstick	Mr. Basavanagowda M.G
9	3-8-2007	Role of NPK in Arecanut	Mr. Basavanagowda M.G
10	4-8-2007	INM in Arecanut	Mr. Basavanagowda M.G
11	5-8-2007	Integrated Management of Shoot and Fruit borer in Brinjal	Dr. Roopa S. Patil
12	10-8-2007	Selection of quality planting material and sett treatment in Sugarcane	Mr. Mallikarjuna B.O
13	10-08-2007	Mother palm selection and propagation in Arecanut	Mr. Basavanagowda M.G
14	11-08-2007	Mother palm selection and propagation in Coconut	Mr. Basavanagowda M.G
15	18-8-2007	Integrated Management of pest and diseases in Groundnut	Dr. Roopa S. Patil
16	25-8-2007	Urea quality testing	Dr. Rajakumar G.R

17	26-8-2007	Nutrient deficiency in Maize	Dr. Rajakumar G.R
18	29-8-2007	Water quality testing	Dr. Rajakumar G.R
19	27-8-2007	Use of cow dung slurry and pulse extract in Arecanut	Mr. Basavanagowda M.G
20	07-09-2007	IPM in Tomato	Mr. Basavanagowda M.G
21	09-09-2007	Use of tanks silt for agriculture land	Dr. Rajakumar G.R
22	16-09-2007	Azolla production	Dr. Rajakumar G.R
23	18-09-2007	Management of Insect pest in Sunflower	Dr. Roopa S. Patil

RADIO TALKS

Sl.No	Date	Title	Scientist	Venue
1	17-07-2007	Integrated Fish Farming	Dr. Devaraja T.N	AIR, Bhadravathi
2	24-8-2007	Environmental awareness and affection in Kannada films	Dr. Devaraja T.N	AIR, Bhadravathi
3	22-09-2007	Sunflower and Groundnut production technology	Mr. Mallikarjuna B.O	AIR, Chitradurga
4	30-09-2007	Dry Land Horticulture	Mr. Basavanagowda M.G	AIR, Chitradurga

Annexure 6

HUMAN RESOURCE DEVELOPMENT OF KVK PERSONNEL

Sl. No.	Discipline	Area of training	Organizations/ institutions where training offered	Duration (days)	Date
1	Dr. T.N Devaraja (Fisheries)	Second National Conference of KVK	ANGRAU, Hyderabad	02	26.11.2006 to 27.11.2006
2	Dr. Roopa S Patil (Plant Protection)	Biological Control	PDBC, Bangalore	09	20.3.07 to 28.3.07
3	All scientific staff	FLD/OFT Orientation Programme	ZCU, Bangalore	03	28.3.07 to 30.3.07
4	Mr. Basavanagowda M.G (Horticulture) and Mallikarjuna B.O (Agronomy)	Integrated Farming System	UAS, Bangalore	03	9.5.07 to 11.5.07
5	Dr. T.N Devaraja (Programme Coordinator)	PPT presentation on fisheries project proposal	KVK, Pandicheri	01	25.08.2007
6	Ms. Kavitha P (Home Science)	Processing of Soybean and its utilization	UAS, Bangalore	03	17.9.07 to 19.9.07
7	Dr. Rajakumar G.R (Soil Science)	Rural Sanitation	CIPART, New Delhi	03	19.9.07 to 21.9.07

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