



**ACTION PLAN
FOR THE YEAR**

2007-08

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GENERAL INFORMATION ABOUT TARALABALU KVK

1.	Name and Address of KVK with Phone, Fax and e -mail	Taralabalu Krishi Vigyan Kendra Kesarivana, Opp.: PG Centre, Tholahunase Davanagere - 577 002 Phone: 08192 - 294568, Fax: 08192 - 294568 E - mail: tkvk@taralabalu.org
2.	Name and address of host organization with phone, Fax and e -mail	Taralabalu Rural Development Foundation (TRDF), Sirigere -577 541, Chitradurga District, Karnataka Phone: 08194 - 268829, 268842 Fax: 08194 - 268847 E - mail: trdf@taralabalu.org
3.	Name of the Programme Coordinator, Residence Phone No.	Dr. Devaraja T. N. Mobile: 94482 52673
4.	Year of Sanction	2004
5.	Year of start of activities	2005
6.	Major farming system / enterprises	Maize, Sugarcane, Paddy, Ragi, Cotton, Jowar, Vegetable crops, Areca nut, Coconut, Beetle Vine, Dairy and Sericulture
7.	Name of agro- climatic zone	Zone- III, IV, VII Harapanahalli- Zone-III, Davanagere, Harihar and Jagalur- Zone-IV Channagiri and Honnali - Zone - VII
8.	Soil type	Medium to deep black soils and Red sandy loam soil
9.	Average annual rainfall (mm)	591 mm

10. Staff Strength

Posts	Programme Coordinator	Subject Matter specialists	Programme Assistants	Admin Staff	Auxiliary Staff	Supporting Staff	Total
Sanctioned	1	6	3	2	2	2	16
Filled	1	4	3	2	2	2	14

11. Details of the Staff

Sl. No	Name of the Staff Member	Designation	Pay Scale	Date of joining	Permanent/Temporary
I	SCIENTIFIC POSTS				
1.	Dr.T.N.Devaraja	Programme Coordinator	10000-325-15300	17.05.2005	Permanent
	SUBJECT MATTER SPECIALISTS				
2.	Dr.G.R.Rajakumar	SMS (Soil Science)	8000-275-13500	01.06.2005	Permanent
3.	Dr. Roopa S.Patil	SMS (Plant Protection)	8000-275-13500	01.06.2005	Permanent
4.	Mr. Sandesh H. M	SMS (Agril. Extension)	8000-275-13500	01.06.2005	Permanent
5.	Mr. Basavanagowda M.G	SMS (Horticulture)	8000-275-13500	21.11.2006	Permanent
6.	Vacant	SMS (Veterinary)	8000-275-13500	---	---
7.	Vacant	SMS (Agronomy)	8000-275-13500	---	---

II	PROGRAMME ASSISTANTS				
8.	Mr. B. O. Mallikarjuna	Farm Manager	5500-175-9000	01.06.2005	Permanent
9.	Ms. P. Kavitha	Programme assistant (Home Science)	5500-175-9000	01.06.2005	Permanent
10.	Ms. Mamatha R. Halagola	Programme assistant (Computer Science)	5500-175-9000	01.06.2005	Permanent
III	ADMINISTRATIVE POSTS				
11.	Mr. Mallikarjuna S. G.	Office Superintendent - Cum- Accountant	5500-175-9000	01.06.2005	Permanent
12.	Smt.Mamata H. Melmalagi	Stenographer- Cum - Computer Operator	4000-100-6000	27.06.2005	Permanent
IV	SUPPORTING POSTS				
13.	Mr. B. Shiva kumara	Office Attendant	2550-3200	01.06.2005	Permanent
14.	Mr. S. E. Shiva kumara	Field Attendant	2550-3200	01.06.2005	Permanent
V.	AUXILIARY POSTS				
15.	Mr. N. M. Marulasiddaiah	Driver-Cum-Mechanic	3050-4590	01.06.2005	Permanent
16.	Mr. S. Shiva kumara	Driver-Cum-Mechanic	3050-4590	01.06.2005	Permanent

12. Plan of Human Resource Development of KVK personnel during 2007-08

Sl. No.	Discipline	Area of training required	Organizations/ institutions where training is offered	Approximate duration (days)	Training fee (Rs.)
1	Fisheries	International Asian Fisheries Symposium	AFS Cochin	04	6000=00
2	Agronomy	Recent Advances in Training Management	NAARM	09	6000=00
3	Soil Science	Remote sensing & GIS application OR GIS, GPS & RS application in rural development	ISRO Bangalore/ NIRD Hydrabad	1 Month 6 Weeks	-- --
4	Plant Protection	Utilization of Entomopathogenic fungi in pest management	PDBC Bangalore	1 Week	--
5	Agri. Extension	Participatory Rural appraisal and participatory learning and Action techniques for research and extension in Agriculture	NAARM	03	6000=00
6	Horticulture	Production of Quality Planting Material for Horticultural Crops	IIHR	07	--
7	Horticulture	Post harvest technologies in Horticulture crops	IIHR, Hesaraghatta, Bangalore	6 Days	7000=00
8	Farm Manager	Farm Planning & Farm Management	NAARM	21	--
9	Home Science	Post harvest technologies in Horticulture crops, Value addition & Marketing aspects	IIHR, Hesaraghatta, Bangalore	6 Days	7000=00
		Post harvest technology, value addition & Bakery techniques	UAS Bangalore	1 Week	--
10	Computer Programmer	Web designing (evening class)	Computer Technologies Davanagere	3 month	5000=00
11	Computer Programmer	Computer Based Multimedia in Agriculture	NAARM, Hyderabad	15	8000=00

13. Infrastructure

i] Land

Total area (ha)	Area cultivated (ha)	Area occupied by building and roads (ha)	Area with demonstration units (m ²)
15	08	01	0.25

ii] Buildings

Admn. Building			Trainees Hostel			Staff Quarters			Others		
Plinth area (m ²)	Cost (Rs. In lakhs)	Year of constn	Plinth area (m ²)	Cost (Rs. In lakhs)	Year of constn	No	Plinth area (m ²)	Cost (Rs. In lakhs)	Year of constn	Plinth area (m ²)	Cost (Rs. In lakhs)
550	31.42	2006*	300	22.195	2006*	6	400	19.4	2006*	160	5.53

- Building works is in progress

iii] Vehicles

Type of vehicle	Model	Actual cost (Rs.)	Total kms. Run	Present status
Tempo Cruiser	2005	4,99,250	24500	Good
Hero Honda CD Deluxe	2006	39,298	6050	Good

iv] Equipments & AV aids

S.No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status	Source of funding
1	Tractor and trailer	2005	4,99,995	Good	ICAR
2	Xerox Machine	2006	73,840	Good	ICAR
3	Digital Camera	2006	19,900	Good	ICAR
4	Over Head Projector	2006	19,935	Good	ICAR
5	TV with DVD Player	2006	11,350	Good	SHIMUL

14. Details of SAC Meeting conducted during 2007-08

Date: 14/3/2007

Venue: Taralabalu Krishi Vigyan Kendra, Tholahunase, Davanagere

Total No of Members Present: 12

Major Recommendations of above SACs which are to be implemented during 2007-08

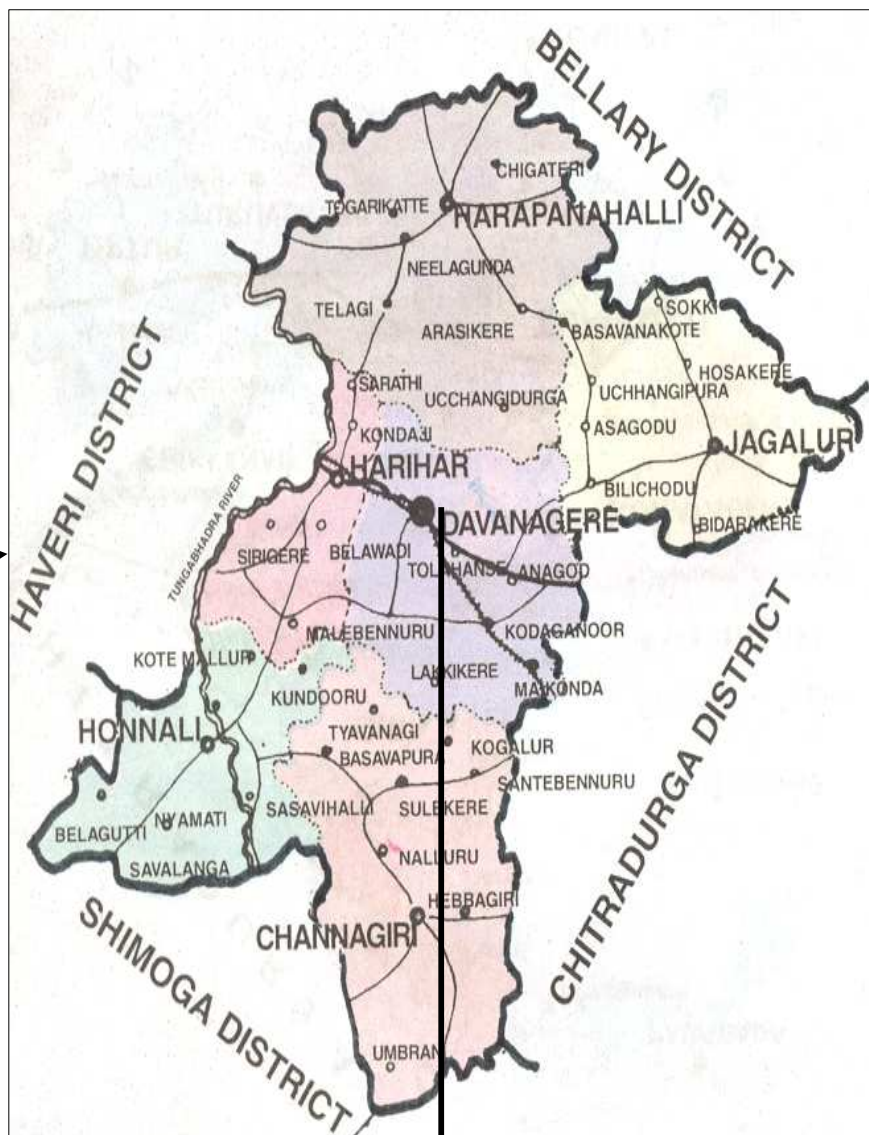
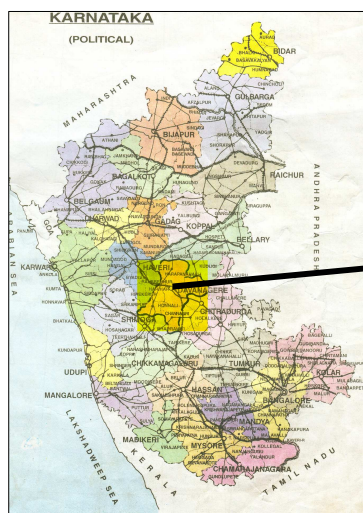
Sl.No	Major Recommendations
1	Work on ICT system in one village of each GP in the district
2	Conduct PRA in a particular area and have research in extension
3	Work on poultry sector particularly on health and hygiene
4	Supply of bio-fertilizers and bio-control agents to farmers should be made
5	FLDs on Organic farming should be conducted
6	Trainings on processing / value addition in horticulture crops should be planned
7	Evaluation on KVK activities conducted should be made
8	Trainings to scientists of KVK for updates should be planned
9	Popularisation of new sugarcane variety resistant to woolly aphid
10	Parthenium eradication should be popularized through CD shows
11	Quality seed selection guidance to farmers should be given
12	Documentation of activities through voice recording of farmers opinion should be made

DAVANAGERE DISTRICT PROFILE

Particulars	Unit
I] General Information	
Geographical Area	5,97,597 ha
Talukas	06
Hoblis	35
Gram Panchayaths	230
Villages	918
Total Population	17,90,952
Sex Ratio	0.937
II] AGRICULTURAL AND ALLIED INFORMATION	
Net Sown Area	3,65,451 ha
Repeated Sowing Area	70,501ha
Forest Area	89,918 ha
Non cultivable Land	20,533 ha
Cultivable Waste Land	9,231 ha
Grazing Land	19,538 ha
Total Irrigated Area	1,41,327 ha
Marginal Farmers	1,06,864
Small Farmers	73,221
Partial medium Farmers	44,358
Medium Farmers	17,257
Big Farmers	2,052
No. of Rainfall measuring Centers	34
Usual Rainfall	644 mm
III] Sericulture	
Area under mulberry	322.2 ha
Cocoon production	181.0 tons
IV] Live Stock Information	
Cattles	363578
Buffaloes	231569
Sheeps	300362
Goats	145429
Poultry	457145
Veterinary Hospitals	134

LOCATION OF TARALABALU KVK

DAVANAGERE

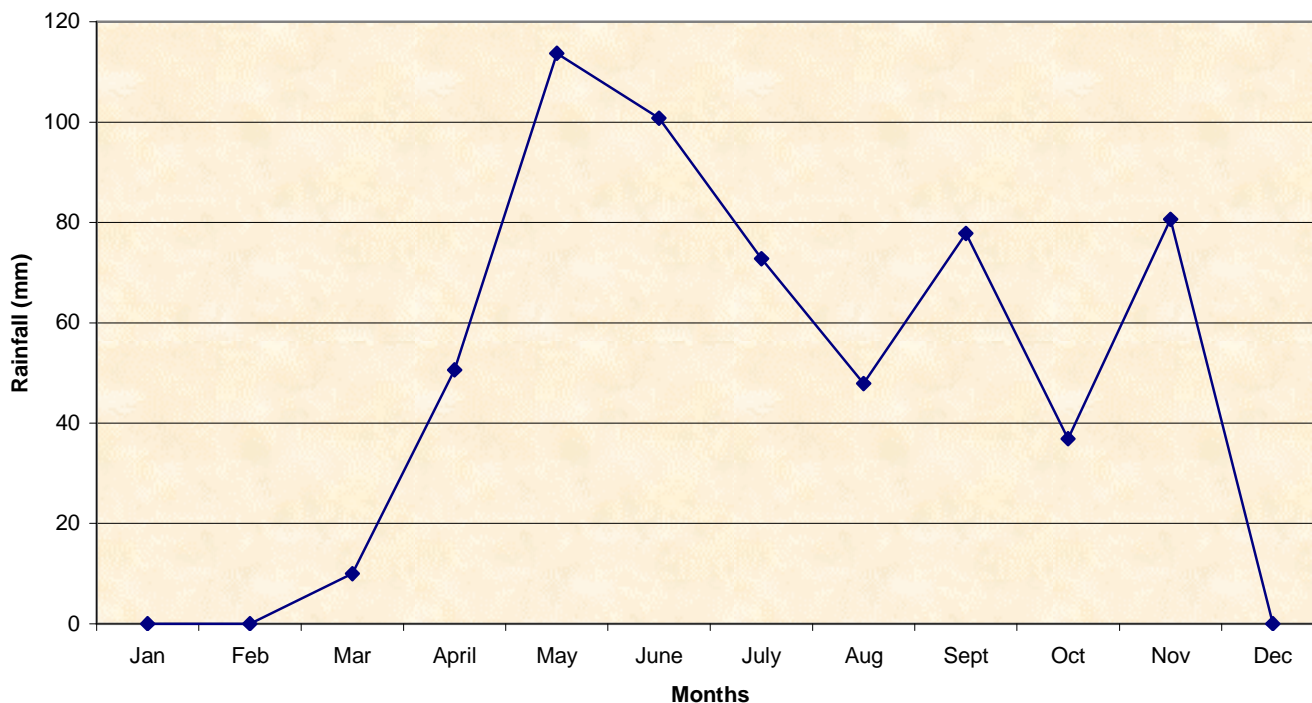


Kesari Vana, Tholahunase,
Taralabalu KVK, Davanagere

RAINFALL DISTRIBUTION THROUGHOUT THE YEAR 2006 OVER THE DISTRICT

Months	Rainfall received in mm
January	0
February	0
March	10
April	50.6
May	113.7
June	100.8
July	72.8
August	47.9
September	77.8
October	36.9
November	80.6
December	0
TOTAL	591.1

Distribution of Rain fall for 2006



Area Covered Under Different Crops in Davanagere District (2006)

Sl.No	Crops category	Crops	Area covered under kharif in ha	Area covered under Rabi in ha	Area covered under Summer in ha
I	Cereals				
		Paddy	61392	--	432681
		Jowar	22348	5987	500
		Ragi	23131	8	27
		Maize	173271	16	41
		Wheat	0	558	--
		Bajra	659	--	--
		Minor millets	319	--	--
	TOTAL		281980	6569	43877
II	Pulses				
		Tur	8929	--	--
		Horsegram	1160	4098	--
		Blackgram	110	--	166
		Greengram	4745	5	107
		Cowpea	905	489	1057
		Avare	1939	--	--
		Bengalgram		3591	--
	TOTAL		17788	8183	1230
	Total Of Food Grains (I+II)		299788	14752	45107
III	Oil Seeds				
		Groundnut	17707	--	8364
		Sessamum	2466	--	--
		Sunflower	11880	7136	3154
		Safflower	-	430	--
		Castor	989	--	--
		Niger	1057	--	--
		Mustard	280	--	--
		Soybean	52	--	--
	TOTAL		34391	7566	11518
IV	Commercial Crops				
		Cotton	3124	2170	--
		Sugarcane (P)	2704	563	2392
		Sugarcane (R)	2215	589	3815
		Tobacco	550	652	--
	Total Of Commercial Crops		8593	3974	6207
	GRAND TOTAL		342752	26292	92827

Area Covered Under Horticulture Crops in Davanagere District (taluk-wise,2006)

Crops	Total Area (ha)	Production (tons)	Yield (t/ha)
Channagiri Tq			
Fruit Crops	1547	25298	16
Vegetable Crops	728	5791	8
Spice Crops	863	1686	2
Garden/ Plantation crops	18960	14316	1
Commercial Flowers	21	32	2
Davanagere Tq			
Fruit Crops	841	21822	26
Vegetable Crops	396	8280	21
Spice Crops	32	140	4
Garden/ Plantation crops	5716	3162	1
Commercial Flowers	51	375	7
Harapanahalli Tq			
Fruit Crops	675	13512	20
Vegetable Crops	2628	34092	13
Spice Crops	80	342	4
Garden/ Plantation crops	785	325	0
Commercial Flowers	456	4750	10
Harihara Tq			
Fruit Crops	237	6780	29
Vegetable Crops	243	3251	13
Spice Crops	17	133	8
Garden/ Plantation crops	6030	939	0
Commercial Flowers	13	30	2
Honnalli Tq			
Fruit Crops	379	4644	12
Vegetable Crops	1384	18663	13
Spice Crops	472	968	2
Garden/ Plantation crops	4620	3701	1
Commercial Flowers	5	49	10
Jagalur			
Fruit Crops	537	17932	33
Vegetable Crops	2879	25995	9
Spice Crops	54	178	3
Garden/ Plantation crops	1075	463	0
Commercial Flowers	159	820	5

Area Covered Under Horticulture Crops in Davanagere District (crop-wise,2006)

Crops	Total Area (ha)	Production (tons)	Yield (t/ha)
1	2	3	4
Fruit Crops			
Mango	1883	18830	10
Cavandish (Pachcha Bale)	568	17040	30
Lemon	67	1675	25
Sweet Orange	2	50	25
Guava	35	875	25
Sapota	405	4860	12
Pomegranate	114	1140	10
Jack	19	798	42
Papaya	187	16830	90
Vegetable Crops			
Tomato	1203	27067	22
Beans	79	785	10
Onion	4378	24847	6
Green Chilies	1246	18690	15
Sweet Potato	3	38	13
Cabbage	39	858	22
Cauli Flower	4	80	20
Peas	1	18	18
Lady's Finger	141	1128	8
Radish	92	1150	13
Beet Root	19	342	18
Capsicum	7	105	15
Cluster Beans	8	56	7
Drum Stick	43	86	2
Watermelon	205	6150	30
Leafy Vegetables			
Menthi	1	10	10
Palak	1	10	10
Amaranthus	2	20	10
Curry Leaves	7	56	8
Gourd Varieties			
Ash Gourd	1	25	25
Snake Gourd	1	18	18
Bitter Gourd	4	32	8
Ridge Gourd	34	272	8
Pumpkin	4	120	30
Cucumber	40	720	18
Little Finger	1	38	38
Gherkins	158	3555	23

Spice Crops			
Pepper	2	0	0
Tamarind	88	440	5
Ginger	2	20	10
Turmeric	34	272	8
Garlic	9	72	8
Dry Chillies	1302	2604	2
Coriander	45	27	1
Vanilla	34	10	0
Garden/Plantation Crops			
Coconut	14898	1490	0
Arecanut	20952	20952	1
Beetelvine	1026	25650	25
Cocoa	119	71	1
Oil Palm	152	1824	12
Cashew	37	56	2
Commercial Flowers			
Aster	13	130	10
Crossandra	155	775	5
Marigold	244	2440	10
Jasmine	127	889	7
Chrysanthamum	116	1740	15
Rose	22	44	2

Table 10: DETAILS OF PRINT AND ELECTRONIC MEDIA COVERAGE PLANNED FOR 2007-08

Sl.No	Nature of literature/publications and no. of copies	Proposed title of the publications
1	Leaflet / folder (1000)	Cotton production technology (Kannada)
2	Leaflet / folder (1000)	Nutrient Management in Crop Production
3	Leaflet / folder (1000)	Crop waste recycling
4	Leaflet / folder (1000)	Medicinal & Aromatic plants cultivation
5	Leaflet / folder (1000)	Inland Pond Aquaculture
6	Leaflet / folder (1000)	Vermicomposting
7	Leaflet / folder (1000)	Pest and Disease management in Sunflower
8	Leaflet / folder (1000)	Pest and Disease management in Paddy
9	Leaflet / folder (1000)	Soil fertility management
10	Wall poster (100)	Solid waste management
11	Charts (1000)	Clean Milk Production
Sl.No	Nature of media coverage and the no. of activities	Proposed title of the programmes to be telecasted
1	Radio Talk (7)	1) Inland Fish Farming 2) Importance of Soil Testing 3) Child Nutrition in Rural Areas 4) Contract Farming 5) Pest and Diseases in Paddy / Sugarcane 6) Dry Land Horticulture 7) Organic Farming
2	Popular Articles in News paper (10)	On Major Thrust Areas of the district
3	CD Film / Slide shows (5)	Clean Milk Production Nutrient deficiencies in different crops

Table 11: NATURE OF COLLABORATIVE ACTIVITIES PLANNED FOR 2007-08

Thrust area	Crop/ enterprise	Collaborating Organization	Nature of activities	No. of activities
Production technology & Value addition	Maize, Sunflower, Groundnut, Sugarcane, Ragi Paddy, Redgram & Bengalgram	Dept. of Agriculture	FLD OFT Trainings	15
Production Technology & Value addition	Vegetables & Fruit and Plantation crops	Dept. of Horticulture	FLD OFT Trainings	6
Integrated Inland Pond Aquaculture	Fish	Dept. of Fisheries	FLD OFT Trainings	3
Clean Milk Production	Dairy	SHIMUL	Trainings	100
Vermi composting	Crop waste	KRVP, Bangalore	Trainings	15

Table 12: FINANCIAL STATUS OF REVOLVING FUND AND THE PLAN FOR ITS UTILIZATION

Opening balance as on 1.4.2006	Expenditure incurred during 2006-07	Receipts during 2006-07	Closing balance as on 28.2.2007	Proposed expenditure during 2007-08	Proposed receipts during 2007-08
32,701.25	2,12,833.68	2,07,756.50	27,444.07	2,28,500=00	2,38,600=00

Table 13: PHYSICAL STATUS OF REVOLVING FUND AND PLAN FOR ITS UTILIZATION

Opening stock position of materials As on 1.4.2006	Quantity produced during 2006-07	Quantity sold during 2006-07	Closing stock position as on 31.3.2007	Expected production during 2007-08	Expected number of beneficiaries
NIL	Sunflower 6.36 q	6.36 q	--	Sunflower 7 q	--
	Groundnut 0.8 q	0.8 q	--	Sugarcane 95 †	30
	Paddy 17.76 q	17.76 q	--	Sugarcane 40 †	--
	Maize 112.70 q	112.70 q	--	Maize 130 q	--
	Red gram 3.22 q	3.22 q	--	Red gram 6q	KSSC
	Cotton 6 q	--	6 q	Cotton 7 q	--
	Tomato 5299 kg	5299 kg	--	Tomato 7 †	--
	Chilli 642 kg	642 kg	--	Chilli 6 †	--
	Brinjal 235 kg	235 kg	--	Brinjal 2.5 †	--
	Bhendi 350 kg	350 kg	--	Potato 2.5 †	5
	Cucumber 1180 kg	1180 kg	--	Mushroom 300kg Fresh 30 kg Dry	--
	Beans 312 kg	312 kg	--	Honey Bees (<i>Api cerena</i>) 6 kg	--
	Cluster bean 29 kg	29 kg	--	Vermicompost 5 †	Farm
	--	--	--	Soil Testing using Mobile kit 50 Samples	15

Table 14: PLAN FOR UTILIZATION OF REVOLVING FUND

Amount to be invested (Rs.)	Purpose	Expected production	Approximate value of the produce
40,000/-	Sugarcane (CO- 86032) seed multiplication	40 t	45,000/-
30,000/-	Sugarcane (CO-7804)	40 t	40,000/-
42,000/-	Sugarcane (CO- 86032) seed multiplication	30 t	--
25,000/-	Maize (Hybrids)	70 q	35,000/-
5,000/-	Red gram (JS-1) Seed multiplication	6 q	9,000/-
20,000/-	Rabi Maize	45 q	25,000/-
25,000/-	Vegetables Tomato Chilli Brinjal	7 t 6 t 2.5 t	10,000/- 10,000/- 5,000/-
15,000/-	Potato (Kufri Jyothi) seed multiplication	2.5 t	15,000/-
8,000/-	Bt Cotton	6 q	12,000/-
12,000/-	Mushroom	200kg Fresh 20 kg Dry	18,000/-
--	Honey Bees (<i>Api cerena</i>)	6 kg	600/-
4,000/-	Vermicompost	5 t	10,000/-
2,500/-	Soil Testing using Mobile kit	50 Samples	4,000/-
228500=00	TOTAL		238600=00

Table 15: STATUS OF KVK FARM AND DEMONSTRATION UNITS

of ks	Area (Ac)	Source of irrigation	Season	Crop /enterprise/ demonstration units	Size (no. of units/area)	Expected output	
						Quantity	Value (Rs.)
	3.5	Bore well	Kharif /Rabi	Sugarcane seed multiplication (CO 86032)	2.5 Ac	40 †	45,000/-
	1.0	Bore well	Kharif	Sugarcane (CO 7804)	1 Ac	40 †	40,000/-
	5.0	Rainfed / Bore well	Kharif	Maize (Hybrids)	5 Ac	70 q	35,000/-
	2.5	Rainfed / Bore well	Kharif	Red gram seed multiplication (JS-1)	2.5	6 q	9,000/-
	3.0	Rainfed / Bore well	Kharif / Rabi	Vegetables Tomato Chilli Brinjal	1.5 1.0 0.5	7 † 6 † 2.5 †	10,000/- 10,000/- 5,000/-
	0.5	Rainfed / Bore well	Kharif / Rabi	Potato seed multiplication (JS-1)	0.5	2.5 †	15,000/-
	1.0	Rainfed / Bore well	Kharif / Rabi	Cotton	1.0	6 q	12,000/-
	3.0	Rainfed / Bore well	Rabi	Maize	3.0	40 q	25,000/-
	150 Sq. ft	Bore well	Period: June 07- January08	Mushroom 10 crops	--	400 kg fresh mushroom	18,000/-
	3 Box	Bore well	Kharif - Summer	Honey Bees (<i>Api cerena</i>)	--	6 kg	600/-
	2 units	Bore well	April 07- March 08	Vermicompost	--	5 †	10,000/-
	1	Bore well	April 07- March 08	Soil Testing using Mobile kit	--	50 Samples	4,000/-

Demonstration Units: 1) Dairy: Construction completed. Activities yet to begin
2) Sericulture: Construction completed. Activities yet to begin

16. Production and supply of seeds / planting materials / Bio-agents in villages

Planning to train few SHGs to take up production of bio-agent such as Trichoderma in at least two villages

17. Extent of Cultivable waste land in the District and plan of activities to be implemented in these waste lands by the KVK during 2007-08.

- Cultivable waste land 9,231 ha
- Plan of activities in these waste lands by the KVK during 2007-08:
- Plan is there for planting bio-diesel seedlings in at least 20 ha waste land in collaboration with KSDA and Dept. of Forest.
- Plan is there to create inland aquaculture ponds in a minimum of 20 ha in collaboration with Dept. of Fisheries

18. PLAN FOR NATIONAL HORTICULTURE MISSION (NHM) PROGRAMMES FOR 2007-08

Sl. No	Project Title	Status	Estimated Cost (Rs)	Duration
1	Establishment of Plant Health Clinic	Proposal submitted (2006)	20,00,000	3 Years
2	Establishment of Disease and Pest Forecasting Unit	Proposal submitted (2006)	4,00,000	3 Years
3	Vegetable seed production	Planning in collaboration with District Horticulture Dept.	50,000/ ha	--
4	Small Nursery	Planning stage	3,00,000 per unit	--
5	Green House (Hitech - small and marginal farmers)	Planning stage	650 per Sq. m. for Hitech ; Rs 250 per Sq. m for normal	--
6	Establishment of Biofertilizer Unit	Proposal submitted	18,21,000	5 years

19. Whether ATMA is functioning in your District? :NO

20. What type of Scientist - Farmer linkages are proposed by your KVK for 2007-08?

Website and internet query linkage with farmers and KVK using ICT is under creation

21. Activities of Soil, Water and Plant Testing Laboratory

Lab is yet to be established. Building construction is under progress. Presently using mobile kit, soil samples are tested for soil properties such as pH, available N, P and K and necessary advice is given to farmers.

22. DETAILS OF ACTIVITIES PLANNED, OTHER THAN THOSE LISTED ABOVE.

- ✿ Presently Taralabalu Krishi Vigyan Kendra has formed 15 Farm men and Farmwomen SHGs in the district to develop the entrepreneurship activities among the farming communities. This Kendra is also implementing its programmes through these SHGs in the participatory mode and making them as Technology Leaders. So, it is planning to form network of such SHGs around the district for effective implementation of its mandatory activities and also other extension programmes.
- ✿ Prepared Suvarna Grama action plan for Chigateri Gram Panchayath, Harapanahalli Tq., Davanagere district. Implementation works are awaited. The plan work prepared through Surveys, Group Meetings, Trainings (to GP members and villagers), Grama Sabha and interaction with line departments.

PLAN OF WORK

Table 1: Operational Area Details for 2007-08

Sl. No.	Taluks	Blocks/groups of villages	Major crops & enterprises being practiced	Major problems identified	Identified Thrust Areas
1	2	3	4	5	6
1	Davanagere	Halubarthi Mellekattae	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 Drudgery of farm women in farm & house hold Loss of grains/produce due to Poor storage Wilting and pod borer	Inter cropping, HYV, Recommended seed rate Intercropping 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
			SHG	Poor nutrition, no value addition	Family nutrition management, promotion of nutritional kitchen garden, post harvest technology to add value to the farm produce

1	2	3	4	5	6
		Ramagondanahalli	Sugarcane	Woolly aphid, narrow spacing, improper water management , trash burning, micronutrient deficiency , incidence of red rot and use of low yielding varieties	Integrated management of woolly aphid, management of red rot, recycling of crop wastes & nutrient management, paired row and popularization of resistant variety
		Kurki	Paddy	Scarcity of water, use of low yielding varieties, micronutrient deficiency, Severe infestation of BPH	Aerobic rice cultivation, Popularization and IPM in KRH-2 Nutrient management
2	Harapanahalli	Budihal and Nandikamba	Cotton	Improper spacing and nutrient management, pest & diseases	Integrated Crop Management

1	2	3	4	5	6
3	Channagiri	Siddanamata	Ragi	Local Varieties High seed rate	Inter cropping, HYV, Rec. seed rate
		Kerebilichi	Mango	Wilting of mango trees due to stem borer and secondary infection of fungal diseases	Insect management
		Devarahalli	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
		Basavapatna	Arecanut	Button shedding and infestation of mites	Micronutrient management IPM,
			Coconut	Low yield due to poor nutrient management	IPM, nutrient management
4	Harihara & Davanagere	KN Halli Maganahalli	Paddy, Maize	Several hectrage areas are non cultivable and unsuitable for field crops: Stagnated average annual income among majority of families	Integrated Inland pond aquaculture

Summary of List of Thrust Areas for 2007-08

- 1) Improved cultivation practices in Maize, Paddy, Sunflower, and Groundnut
- 2) Soil fertility management in Maize, Paddy, Sunflower, Groundnut, Vegetables, Banana, Mango, Coconut & Arecanut
- 3) Recycling of crop waste in Sugarcane & Maize
- 4) Popularization of HYV & hybrids of Paddy, Groundnut and Sugarcane
- 5) Pest and disease management in Bengalgram, Paddy, Sugarcane, Cotton, Onion, Brinjal, Cauliflower and Mango
- 6) Effect of honey bee (*Apis cerana indica*) pollination on quality parameters of Sunflower
- 7) Nursery management in horticulture crops
- 8) Popularization of Potato crop in the district to change mono cropping of maize
- 9) Family nutrition management
- 10) Enrichment and value addition to cereals, pulses, vegetables and fruits
- 11) Drudgery reduction for farm women
- 12) Integrated inland fish farming

Table 2: Abstract of Interventions Proposed Based on the Identified Problems during 2007-08

Sl. No	Crop / Enterprise	Identified Problem/s	Interventions				
			Title of OFT	Title of FLD	Title of Training for farmers	Title of training for extension personnel	Others
1	2	3	4	5	6	7	8
1.	Maize	Poor & ill distribution of rainfall Improper Nutrient management	-	Intercropping of Redgram with Maize Nutrient management	HYV & hybrids Management practices for increasing yield Soil fertility & Nutrient management	Soil fertility & Nutrient management	-
2.	Paddy	Injudicious use & scarcity of water Imbalanced use of N fertilizer Infestation of Insect Pest & Diseases Indiscriminate use of pesticides Transplanted Rice	-	IPM in KRH-2	HYV & hybrids Pest & Disease Management practices	HYV & Hybrids Pest & Disease Management practices	-
			-	Popularization of Aerobic Rice cultivation	HYV & hybrids Management Practices	HYV & Hybrids Management practices	-
			Use of COT	-	Soil fertility & Micro nutrient management	Soil fertility & Micro nutrient management	-

1	2	3	4	5	6	7	8
3.	Sugarcane	Narrow spacing	-	Popularization of CO-86032	Management practices for increasing yield	Management practices for increasing yield	-
		Woolly aphid	-	Popularization of CO-VC-2003-165, a woolly aphid resistant variety	Management practices for increasing yield	Management practices for increasing yield	-
		Micronutrient deficiency	Woolly aphid management (paired row), Use of Copper Ore Tailings (COT)	-	Management practices for increasing yield Micro nutrient management	Management practices for increasing yield Micronutrient management	-
4.	Ragi	Use of local varieties Improper Nutrient Management High seed rate	-	Popularization of GPU-48	Production technology of Ragi	Recent advances in production technology of Ragi	-
5.	Brinjal	Shoot and fruit borer	--	Management of shoot and fruit borer	Pest & disease management	Pest & disease management	--

1	2	3	4	5	6	7	8
6.	Cauliflower	Diamondback moth	--	Management of diamondback moth	Pest & disease management	Pest & disease management	--
7.	Tomato	Low yield & leaf curl	-	Popularization of Sankranthi	Production technology	Production technology	-
8.	Onion	Purple blotch & bulb rot	Management of purple blotch & bulb rot	--	Pest & disease management	Pest & disease management	--
		Low yield	-	Popularization of Arka Kalyan	Production technology	Production technology	-
9.	Areca nut	Dropping & splitting of nuts	-	Use of boron	Nutrient management	Nutrient management	-
10.	Coconut	Low yield due to poor nutrition	-	INM	INM	INM	-
11.	French bean	Lack of awareness on production technology	-	Popularization of Arka suvidha	Production technology	Production technology	-
12.	Potato	Mono cropping	-	Popularization of Kufri Jyothi	Production technology	Production technology	-
13.	Post harvest technology	Loss of grains due to storage pests	-	Safe storage of grains	Safe storage of grains	Safe storage of grains	-
14.	Fish	Waste lands unsuitable for field crops	-	Popularisation of inland aquaculture	Integrated Fish Farming	Integrated Fish Farming	-
15.	Mango	Stem borer	Management of stem borer	--	Pest & disease management	Pest & disease management	--
16.	Sunflower	Low yield, poor seed set, Pest & Diseases	-	ICM	ICM	ICM	-

1	2	3	4	5	6	7	8
17.	Groundnut	Small sized kernels Less number of pods per plant Low yielding varieties	-	Popularization of GPBD-4	HYV & Management practices	HYV & Management practices	-
18.	Red gram	Pod borer & wilt	-	IPM	IPM	IPM	-
19.	Bengalgram	Pod borer & Wilting	--	Management of Pod borer & Wilting	Pest & disease management	Pest & disease management	--
20.	Cotton	Low yielding Local varieties Severe incidence of pest & disease Improper nutrient management	-	ICM	ICM	ICM	-

ABSTRACT OF On Farm Testings

Sl. No	Crop	Title of OFT	Area (ha)	No. of farmers	Cost total (Rs)
1	Sugarcane	Integrated Nutrient Management and woolly aphid management by paired row technique with beans as an inter crop	2 ha	10	17500=00
2	Paddy	Micro nutrient management in Paddy	2 ha	10	5000=00
3	Mango	Management of stem borer in Mango	2 ha	10	2190=00
4	Onion	Management of purple blotch in Onion	2 ha	10	3550=00
				TOTAL	28240=00

Table 3: Plan of On Farm Testing for 2007-08

Thrust area	Crop / enterprise	Major problems identified	No. of farmers & area affected in the operational villages	Farmers practice & extent of yield loss	Recommended practice & the extent of its adoption	Alternate practice being introduced along with justification	Critical inputs to be provided	
							Name & Quantity (kg/ha)	Cost (Rs/ha)
1	2	3	4	5	6	7	8	9
Nutrient & Woolly aphid management	Sugarcane	Micronutrient deficiency	25 farmers 50 ha	75 cm rows 25% yield loss	90 cm rows, 50% of the farmers are following Reasons for low adoption : Lack of knowledge on micronutrients use Farmers are practicing narrow spacing to accommodate higher plant population to increase cane yield	INM and woolly aphid management Application of COT @ 1 t / ha 60 cm paired rows, 120 cm gap in between the paired rows Growing intercrops in-between the paired rows with Beans Justification: Supply of micronutrient (COT) will give better yield (R & D, UASD) Better aeration and light interception by paired row & additional income & fertility improvement by incorporation of inter crop.	COT - 1000 kg	3500=00
		Narrow spacing					Beans Seeds- @75 kg / ha	5250=00
							TOTAL	8750=00

1	2	3	4	5	6	7	8	9
Nutrient management	Paddy	Micro nutrients deficiency (symptoms) Chaffy seeds	50 farmers 100 Ac	10-20 kg ZnSO ₄	20 kg ZnSO ₄ Reasons for low adoption: Costly	Micro nutrient management in Paddy Application of COT @ 0.5 t/ha Justification: In addition to Zn, supply of other micro nutrients (COT) give better yield (R&D, UASD) COT application supplies Zn, Fe, Mn, Cu, Ca, Mg, S & Si	COT 500 kg ZnSO ₄ @ 20 kg / ha	1750=00 750=00
							TOTAL	2500=00
Pest Management	Mango	Stem borer	10 farmers, 5 ha	Soil application of granular insecticide & drenching 30-40 % yield loss in initial stage & complete drying of the tree	Application of Dichlorovas (DDVP) through affected holes 10 % farmers are practicing Reasons: Method of application is not effective	Management of stem borer in Mango Pruning of affected twigs & application of DDVP 1ml/l and stem pasting with copper oxy chloride Justification: In most of the cases holes are not visible and stem borer incidence leads to secondary fungal infection	DDVP@ 1 L/ha Copper Oxy Chloride 1 kg/ha	345=00 750=00
							TOTAL	1095=00

1	2	3	4	5	6	7	8	9
Purple blotch management	Onion	Purple blotch	25 Farmers, 10 ha	Foliar spray of different pesticides 20 - 50 % yield loss	Foliar spray of Dithane-M-45 2.5g /L 25 % farmers are practicing Reasons: Not effective	Management of purple blotch in Onion Seed treatment with trichoderma 4g / kg of seeds, Foliar spray of Chlorothalonil 2g / L Justification: Both trichoderma and chlorothalonil are effective in control of fungal diseases of onion	Trichoderma - 100 g / ha Chlorothalonil - 1 kg/ha Dithane-M-45 - 2 kg	25=00 1000=00 750=00
							TOTAL	1775=00

Abstract of Front Line Demonstrations

Sl. No	Crop	Title of FLD	Area (ha)	No. of farmers	Cost/ha	Total cost (Rs)
[A] Other than Oil seeds, Pulses & Cotton						
1	Maize	New hybrid, Inter cropping & INM	5	12	2000=00	10000=00
2	Paddy	Aerobic rice cultivation	5	20	500=00	2500=00
3	Paddy	IPM in KRH-2	2	5	4500=00	9000=00
4	Sugarcane	Popularization of HYV CO-86032 and Woolly aphid management	2	5	7050=00	14100=00
5	Sugarcane	Popularization of Woolly aphid resistant variety CO-VC-2003-165	1	3	6000=00	6000=00
6	Ragi	Popularization of GPU-48	10	25	120=00	1200=00
7	Brinjal	IPM	1	5	2695=00	2695=00
8	Cauliflower	IPM	1	5	2115=00	2115=00
9	Tomato	Popularization of TLCV resistant variety Sankrati	2	10	4755=00	9510=00
10	Onion	Popularization of Arka Kalyan	2	5	3100=00	6200=00
11	Areca nut	INM	1	5	3475=00	3475=00
12	Coconut	INM	2	5	760=00	1520=00
13	French bean	Popularization of Arka suvida	1	5	2000=00	2000=00
14	Potato	Popularization of Arka jyothi	1	5	11050=00	11050=00
15	Pulses	Safe storage of pulses	10 No.	10	400=00	4000=00
16	Fish	Integrated inland pond aquaculture	1	5	5000=00	5000=00
Total						90365=00

Contd.

Sl. No	Crop	Title of FLD	Area* (ha)	No. of farmers	Cost/ha	Total cost (Rs)
[B] Oil seeds						
1	Sunflower	Popularization of KBSH - 41	20	40	1750=00	35000=00
2	Groundnut	Popularization of GPBD-4	10	24	4310=00	45100=00
Total						80100=00
[C] Pulses						
1	Red gram	Integrated Crop Management	5	10	1750=00	8750=00
2	Bengal gram	Integrated Crop Management	10	25	1750=00	17500=00
Total						26250=00
[D] Cotton						
1	Cotton	Integrated Crop Management	30	75	3500=00	1,05,000=00
Total						1,05,000=00

Table 4 A: Plan of Front Line Demonstrations (FLD) in Other than Oil seeds, Pulses & Cotton for 2007-08

Crop	Yield gap			Reasons for yield gap	Technology to be demonstrated**	Critical inputs to be provided		Area (ha)	No. of farmers
	District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs/ha)		
1	2	3	4	5	6	7	8	9	10
Maize (Rainfed)	20-22 Q / ha	24-25 Q / ha	16-22 Q / ha	Local hybrids RDF not used Bio-fertilizer micronutrients are not being used Erratic rainfall distribution	New hybrid, Intercropping & INM Maize seeds : NAH-2049 Redgram as a intercrop (BRG-2) RDF:100:50:25 kg NPK / ha Seed treatment: Azospirillum - 400 g PSB - 400 g VAM - 400 g ZnSO ₄ application Intercropping	Maize seeds -15 kg / ha - Azospirillum -400 g PSB -400 g VAM - 400 g ZnSO ₄ @ 10 kg / ha Redgram @ 15 kg / ha	850=00 24=00 24=00 80=00 600=00 422=00	5	12
TOTAL							2000=00		

1	2	3	4	5	6	7	8	9	10
Paddy	40 Q / ha	80-90 Q / ha	30 Q / ha	Sub merged rice cultivation	Aerobic rice cultivation	Seeds: KRH-2 / MAS @ 5 kg / ha	500=00	5	12
				TOTAL					
				Local verities	IPM in KRH-2: KRH-2	KRH-2 : 20 kg	2000=00	2	5
				No seed treatment	Seed treatment with Tricyclazole 75 WP - 2 g / kg of seed	Nursery - Tricyclazole 75 WP - 40 g	30=00		
				Imbalance use of N fertilizers	Recommended dose of N	--	--		
				Injudicious use of water	Water management Alley system of planting	--	--		
				Ineffective management of insect pests (BPH & Stem borer) and diseases (Blast), Indiscriminate use of pesticides	Foliar spray of Tricyclazole 75 WP - 1 g/ L	Main field - Tricyclazole 75 WP - 1 Kg	750=00		
					Imidacloprid 17.8 SL @ 0.3 ml /L	Imidacloprid 17.8 SL - 150 ml	360=00		
					Azadirachtin - 10000 ppm@2ml / L	Azadirachtin - 10000 ppm- 1L	700=00		
					Chlorpyriphos - 20 EC - 2 ml / L	Chlorpyriphos- 20 EC - 1.5 L	425=00		
					Application of granular insecticide Phorate 10 kg/ ha	Phorate 10 kg	335=00		
TOTAL							4500=00		

1	2	3	4	5	6	7	8	9	10		
Sugarcane	100-120 t / ha	150-160 t / ha	80-100 t / ha	Local varieties (CO-7804, CO-671) Woolly aphid	Popularization of HYV CO-86032 Release of predators (Micromus / Dipha)	Sets - 6 t /ha Micromus / Dipha (1500 / ha) Thiomethaxam 25 WG - 100 g	6000=00 700=00 350=00	2	5		
				TOTAL			7050=00				
				Woolly aphid	Woolly aphid resistant variety - CO-VC-2003-165	Sets - 6 t/ha	6000=00			1	3
TOTAL			6000=00								
Ragi	15-20 Q / ha	30 Q / ha	12-15 Q / ha	Use of local varieties	Popularization of GPU-48	Seeds: GPU-48	-	10	25		
				High seed rate	Recommended seed rate	10 kg /ha	120=00				
TOTAL							120=00				

1	2	3	4	5	6	7	8	9	10
Brinjal	18 t/ha	35-40 t/ha	20 t/ha	Indiscriminate use of pesticides Continues growing of solanacious vegetables Severe infestation of shoot & fruit borer	IPM in Brinjal: Removal of infested twigs & branches Installation of Wota traps (lucin lures) @ 13/ha Spray of: Profenophos 50 EC @ 2ml / L at Flowering. Azadirachtin - 10000 ppm@2ml / L Quinalphos 25 EC @ 2 ml / L	-- Wota traps - 13 No. Profenophos 50 EC - 1 L Azadirachtin - 10000 ppm- 1L Quinalphos 25 EC - 1 L	-- 1300=00 420=00 700=00 275=00	1	5
TOTAL							2695=00		

1	2	3	4	5	6	7	8	9	10
Cauliflower	20 t/ha	25 - 30 t/ha	17 t / ha	Incidence of diamond back moth	IPM in Cauliflower Raised seed bed Planting of 1 row of mustard for every 25 rows of cabbage and all sides Spray of Diclorovas @ 1 ml/L on Mustard Honge soap - 7.5 g / L on cabbage Spinosad @ 0.2 ml /L on Cabbage	-- Mustard seeds:1 kg Diclorovas @ 1 l/ha (2 sprays) Honge soap Spinosad 100ml /ha	-- 50=00 690=00 350=00 1025=00	1	5
TOTAL							2115=00		

1	2	3	4	5	6	7	8	9	10
Tomato	200-250 Q / ha	500 - 750 Q/ha	180 Q / ha	Poor Nursery Management Use of local Varieties No staking No use of Neem cake Viral diseases & improper management	Scientific Nursery Management: Timely Transplanting Introduction of TLCV resistant var. Sankranthi Provide staking Use of Neem Cake In nursery Phosphomedon (0.5 ml/L) spray Spray phosphomedon (0.5 ml / L) in 2 nd & 5 th DAT	Sankranthi seeds - 375 g Trichoderma - 1500 g Neem Cake - 300 kg Phosphomedon - 750 ml	1300=00 300=00 2700=00 455=00	2	10
TOTAL							4755=00	-	
Onion	12-15 Q / ha	15-20 Q /ha	10-12 Q / ha	Use of Low yielding varieties Seed treatment is not followed RDF is not followed	Popularization of Arka Kalyan : Production Technology	Arka Kalyan seeds - 10 kg	3100=00	2	5
TOTAL							3100=00	-	

1	2	3	4	5	6	7	8	9	10
Arecanut	15-16 Q /ha	20 Q / ha	10-12 Q /ha	Dropping and splitting of nuts, lack of awareness about micronutrients	Nutrient management: Use of boron to rectify deficiency	Rock Phosphate (30%)- 125 kg Borax - 70 kg	675=00 2800=00	1	5
TOTAL							3475=00	-	
Coconut	50 nuts per plant	120 nuts per plant	20 nuts per plant	Low yield Nut drop Imbalanced nutrition 17:17:17 -600 g /plant	Balanced nutrition NPK-500:320:1200 g/plant Boron - 50 g/plant Neem cake - 1 kg per plant Compost - 20 kg per plant	Boron - 5 kg Neem cake - 100 kg --	300=00 460=00 --	2	5
TOTAL							760=00		
French Bean	62-50 Q/ha	20 Q/ha	50 Q/ha	Non use of HYV Untimely harvesting	Introduction of HYV Timely harvesting	Arka Suvida seeds - 70 kg	2000=00	1	5
TOTAL							2000=00		
Potato	--	--	--	Non existence of crop	Introduction of potato var. Kufri Jyothi	Seeds - Kufri Jyothi - 1800 kg Dithane-M-45 - 1 kg	10800=00 250=00	1	5
TOTAL							11050=00		

1	2	3	4	5	6	7	8	9	10
Pulses	--	--	--	Post harvest loss due to bruchids Improper sun drying and stored in gunny bags	Safe storage of pulses: Proper sun drying of pulses for 5 days for 25 hours to maintain moisture content 8-9%. Storing dried pulses in plastic containers & spreading fine sand (3 cm) on grains and airtight plastic containers	Plastic containers of 50 kg capacity	400=00	10 No.	10
TOTAL							400=00		
Fish	1.8 t /ha	4.5 ton / ha	2.0 ton / ha	Agriculturally unsuitable lands. Pond fish culture is not popularly practiced.	Integrated Inland pond aquaculture (Poly fish culture integrated with vegetable, fodder crops and Dairy	Fish Seed: 10000 / ha	5000=00	1	5
TOTAL							5000=00		

Table 4 B: Plan of Front Line Demonstrations (FLD) in Oil seeds for 2007-08

Crop	Yield gap			Reasons for yield gap	Technology to be demonstrated**	Critical inputs to be provided		Area (ha)	No. of farmers
	District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs/ha)		
Sunflower (Rainfed)	5-6 Q / ha	10-12 Q / ha	4-8 Q / ha	Non availability of truthful seeds	Popularization of KBSH-41	2 Kg	280=00	20*	40
				Seed treatment with biofertilizers not followed	PSB	400 g	50=00		
					Azospirillum	400 g	50=00		
				MOP is not applied	RDF= 15:20:15 NPK kg / ha	MOP-25 kg	110=00		
				Zinc & Boron are not applied	ZnSO4 Soil application	10 kg	600		
					Boron spray	1.25 kg	150		
				Bihar hairy caterpillar	Cypermethrin 25 EC 1 ml/L	1 L	200=00		
Bud necrosis	Oxydementon methyl 2 ml/L	0.5 L	310=00						

						Total	1750=00			
*Kharif : 10 ha		Rabi: 10 ha		4	5	6	7	8	9	10
(Irrigated)	Q / ha	Q / ha	Q / ha	4						
				Use of local varieties	Popularization of GPBD-4	Seeds- 110 kg		2800=00	10*	24
				Lack of knowledge on seed treatment of bio fertilizers	Seed treatment with Rhizobium, PSB	Rhizobium - 400g PSB - 400 g		30=00 30=00		
				Collar rot	Seed treatment with Trichoderma, Carbendazium	500 g 0.5 kg		100=00 380=00		
				No Gypsum application	Gypsum application	Gypsum-500 kg		750=00 350=00		
				Sucking Pests	Chlorpyriphos	1 L				
TOTAL								4310=00		

* Kharif : 5 ha

Rabi: 5 ha

Table 4 C: Plan of Front Line Demonstrations (FLD) in Pulses for 2007-08

Crop	Yield gap			Reasons for yield gap	Technology to be demonstrated**	Critical inputs to be provided		Area (ha)	No. of farmers	
	District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs/ha)			
1	2	3	4	5	6	7	8	9	10	
Bengal gram	5.5 Q / ha	8-10 Q / ha	4.8 Q / ha	Use of local varieties No seed treatment Ineffective management of Pod borer & Wilt	IPM: Seeds Annigeri 1 Intercrop/border with coriander crop Seed treatment with PSB - 400g Rhizobium - 400g Trichoderma - 4 g / kg of seeds Installation of Ha Pheromone traps - 5 /ha Bird perches - 20/ha Foliar spray of Quinalphos-25 EC@2ml/L	Annigeri 1- 62.5 kg PSB - 400g Rhizobium - 400g Trichoderma - 250g Ha Pheromone traps - 5 Quinalphos 25 EC @ 1 L	1120=00 20=00 20=00 80=00 250=00 260=00	10	25	
TOTAL							1750=00			

1	2	3	4	5	6	7	8	9	
Red gram	2 q / ha	10-12 q/ha	4 q/ha	Use of local varieties No seed treatment Poor management of pod borer	IPM: Seeds BRG-1 / BRG-2 Border cropping with sorghum Seed treatment with Rhizobium - 400 g & PSB- 400 g, Trichoderma- 60 g Ha pheromone traps Neem pesticide Ha NPV Chlorpyriphos 20 EC	BRG-1 / BRG-2 - 15 kg Rhizobium - 400 g PSB-400 g Trichoderma - 60g Ha pheromone traps-5 Neem psticide - 1 L Ha NPV - 250 LE Chlorpyriphos20 EC	450=00 20=00 20=00 20=00 250=00 220=00 500=00 270=00	5	10
						TOTAL	1750=00		

Table 4 D: Plan of Front Line Demonstration (FLD) in Cotton for 2007-08

Crop	Yield gap			Reasons for yield gap	Technology to be demonstrated**	Critical inputs to be provided		Area (ha)	No. of farmers
	District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha)	Cost (Rs/ha)		
1	2	3	4	5	6	7	8	9	10
Cotton	28-35 q /ha	40-42 q/ha	20-28 q /ha	Low yielding Local varieties Severe incidence of pest & disease Improper nutrient management	Integrated Crop Management Bt seeds Trap crop Pheromone traps Sticky traps Trichocards Chemical spays Micronutrient & growth regulator	Bt seeds 1.125 kg/ha Bhendi seeds- 1.25 kg Ha pheromone traps 5/ha Yellow sticky traps - 20 /ha Trichocards - 25 each Quinalphos 25 EC - 1.5 L Micro nutrient mixture 1.75 kg/ha Planofix 750 ml/ha	2000=00 170=00 350=00 50=00 150=00 430=00 125=00 225=00	30	75
TOTAL							3500=00		

**Table 5: PLAN FOR TRAINING PROGRAMMES FOR EXTENSION FUNCTIONARIES
DURING 2007-08**

Crop / Enterprise	Title of FLD / OFT	Organization	Training Course Title	No. of Courses
1	2	3	4	5
Paddy	Popularization of KRH-2 Popularization of aerobic rice Micro nutrient Management	KSDA, Davanagere	Nutrient management in paddy SRI and aerobic rice cultivation	02
	Insect pest & disease management	KSDA, Davanagere	Diagnosis of insect pest & disease, nature of damage, integrated management of BPH & blast	02
Sugarcane	Popularization of CO-86032 & CO- VC-2003-165 Nutrient Management	KSDA, Davanagere	Recent agronomic practices to improve the productivity of Sugarcane	02
	Woolly aphid management	KSDA, Davanagere	Integrated management of Woolly aphid with special reference to Bio-agents	02
Ragi	Popularization of GPU-48	KSDA, Davanagere	Recent agronomic practices to improve the productivity of Ragi	01
Cereals (Maize & Paddy)	Nutrient management	KSDA	Identification and correction of nutrient deficiencies	02
Oil seeds (Sunflower & Groundnut)	Nutrient management	KSDA	Identification and correction of nutrient deficiencies	02
Vegetables, fruits (Tomato, Banana) and plantation Crops (Arecanut, Coconut)	Pest & disease management Nutrient management	Dept. of Horticulture	Identification and correction of nutrient deficiencies	04
Mango	Stem borer management	KSDH, Davanagere	Identification & Management of Stem borer in Mango	01

1	2	3	4	5
Pulses & Oilseeds	Insect pest & disease management Pulse storage	KSDA, Davanagere	Diagnosis of insect pest & disease, nature of damage, integrated management of important insects & diseases	04
Cotton	Integrated Crop Management	KSDA, Davanagere	Diagnosis of insect pest & disease, nature of damage, integrated & recent advances in management of boll worm complex	02
Potato	Popularization of Kufri Jyothi	KSDH, Davanagere	Production technology of Potato	02
Tomato	Popularization of TLCV resistant variety - Sankranthi	KSDH, Davanagere	Recent advances in production of quality seedlings in tomato	02
French bean	Popularization of Arka Suvida	KSDH, Davanagere	Production technology of French bean	01
Onion	Popularization of Arka Kalyan	KSDH, Davanagere	Production technology of onion	01
	Management of Purple Blotch	KSDH, Davanagere	Insect pest & disease management	01
Brinjal & Cauliflower	IPM	KSDH, Davanagere	IPM in Brinjal & Cauliflower	02
Fish	Integrated inland pond aquaculture	KSDA, Department of Fisheries & Horticulture	Grow out pond management of fresh water fish culture	02

**Table 6: PLAN OF VOCATIONAL TRAINING PROGRAMMES FOR YOUNG FARMERS
(Rural Youth) DURING 2007-08**

Crop / Enterprise	Identified Thrust Area	Training title	No. of programmes and Duration (days)
Vermi composting	<ul style="list-style-type: none"> Improper utilization of farm Bio-mass 	<ul style="list-style-type: none"> Production of vermicompost by different methods 	05 programmes 7 days each
Soil health Management	<ul style="list-style-type: none"> Soil testing and fertilizer recommendations 	<ul style="list-style-type: none"> Soil testing skill development in Taralabalu Soil Testing Promoters (TSTP) using mobile kit and fertilizer recommendations 	04 Programmes 7 days each
Biological control	<ul style="list-style-type: none"> Use of safer pesticides 	<ul style="list-style-type: none"> Popularization and utilization of biopesticides (Trichoderma,, NSKE, NPV, Predators/Parasitoids) 	03 Programmes 7 days each
Apiculture	<ul style="list-style-type: none"> Honey production 	<ul style="list-style-type: none"> Bee keeping 	02 Programmes 7 days each
Production of quality planting materials in horticulture crops	<ul style="list-style-type: none"> Non availability of quality planting material 	<ul style="list-style-type: none"> Production of quality planting materials in horticulture crops 	02 Programmes 10 days each
Grafting techniques	<ul style="list-style-type: none"> Lack of production of genuine planting material 	<ul style="list-style-type: none"> Vegetative propagation in different Horticulture crops 	02 Programmes 4 days each
Kitchen Gardening	<ul style="list-style-type: none"> Lack of knowledge on nutritional values 	<ul style="list-style-type: none"> Maintenance of nutritional garden in homestead area 	02 Programmes 2 days each
Mushroom	<ul style="list-style-type: none"> Mushroom cultivation Value addition 	<ul style="list-style-type: none"> Popularization of Mushroom cultivation Preparation of Mushroom recipes 	04 Programmes 7 days each

Table 7: PLAN OF TRAINING PROGRAMMES FOR FARMERS / FARMWOMEN DURING 2007-08

Crop / Enterprise	Major problem	Identified Thrust Area	Training Course Title	No. of Courses
1	2	3	4	5
Paddy	<ul style="list-style-type: none"> • Non availability of hybrids and high yielding varieties • Lack of knowledge on recent advances in production technology • Nutrient management • Infestation of BPH, leaf roller and stem borer, incidence of blast and BLB 	<ul style="list-style-type: none"> • Introduction of high yielding varieties and hybrids • Popularization of SRI and Aerobic rice cultivation • Integrated pest and disease management in paddy 	<ul style="list-style-type: none"> • Aerobic and SRI method of rice cultivation techniques • Integrated water management in paddy • Soil fertility and major and micro nutrient management • Diagnosis of insect pests and diseases, nature of damage, integrated management of BPH and blast 	04
Ragi	<ul style="list-style-type: none"> • Low yield, use of local varieties, higher seed rate, lack of micro nutrient application, no inter cropping, no seed treatment with bio-fertilizers 	<ul style="list-style-type: none"> • Use of HYV • Seed rate. micronutrient application, intercropping and seed treatment 	<ul style="list-style-type: none"> • Importance of use of HYV, seed treatment, intercropping and micro nutrient application in Ragi 	02
Maize	<ul style="list-style-type: none"> • Erratic rainfall • RDF not followed 	<ul style="list-style-type: none"> • Popularization of intercropping techniques • Nutrient management 	<ul style="list-style-type: none"> • Intercropping in Maize • Soil fertility and nutrient management 	02

1	2	3	4	5
Groundnut	<ul style="list-style-type: none"> • Low yield • Incidence of RHHC, fungal diseases (Collar rot, seed rot, pod rot) 	<ul style="list-style-type: none"> • Nutrient management • Integrated Crop management 	<ul style="list-style-type: none"> • Soil fertility and Nutrient Management • Identification of diseased plants, nature of damage, integrated management of fungal diseases and RHHC 	02
Cotton	<ul style="list-style-type: none"> • Low yield • Incidence of bollworms 	<ul style="list-style-type: none"> • Nutrient management • Integrated management of bollworm complex 	<ul style="list-style-type: none"> • Soil fertility and major and micro nutrient management • Diagnosis of pests, nature of damage, integrated management of bollworm 	03
Sugarcane	<ul style="list-style-type: none"> • Woolly aphid infestation • Low yield 	<ul style="list-style-type: none"> • Integrated management • Nutrient management 	<ul style="list-style-type: none"> • Woolly aphid nature of damage, use of resistant var, release of Micromus and Dipha, judicious application of insecticides, use of safer pesticides (Botanicals and organic amendments) • Soil fertility, trash recycling and nutrient management 	03
Bengal gram & Red gram	<ul style="list-style-type: none"> • Pod borer infestation • Loss of grains due to storage pests 	<ul style="list-style-type: none"> • Integrated management 	<ul style="list-style-type: none"> • Integrated management of pod borer- use of bio-pesticides, intercropping • Safe storage of pulses 	02
Onion	<ul style="list-style-type: none"> • Incidence of purple blotch disease 	<ul style="list-style-type: none"> • Chemical control 	<ul style="list-style-type: none"> • Management of purple blotch, seed treatment 	02
Sunflower	<ul style="list-style-type: none"> • Incidence of bud necrosis and BHC • Poor seed filling Low yield due to no RDF 	<ul style="list-style-type: none"> • Integrated management of bud necrosis and BHC • Nutrient management 	<ul style="list-style-type: none"> • Identification of nature of damage, integrated management of bud necrosis and BHC • Soil fertility management 	03

1	2	3	4	5
Coconut	<ul style="list-style-type: none"> Incidence of Coconut mites & CBHC 	<ul style="list-style-type: none"> Integrated management 	<ul style="list-style-type: none"> Identification of damaged trees, Integrated management of Coconut mites & CBHC 	02
Vegetable Crops	<ul style="list-style-type: none"> Insect Pests & Diseases 	<ul style="list-style-type: none"> Integrated management 	<ul style="list-style-type: none"> Identification of diseased plants, eco friendly managements of pests & diseases 	02
Medicinal and Aromatic crops	<ul style="list-style-type: none"> Cultivation in certain places 	<ul style="list-style-type: none"> Introducing alternate crops 	<ul style="list-style-type: none"> Package and practices for commercial medicinal and aromatic crops 	01
Vegetable crops	<ul style="list-style-type: none"> Low productivity Lack of quality planting materials 	<ul style="list-style-type: none"> Popularization of hybrids / HYV Portrays in production of quality seedlings 	<ul style="list-style-type: none"> Hybrid vegetable production Production of quality seedlings by using portrays 	02 01
Fruit Crops	<ul style="list-style-type: none"> Low productivity Lack of knowledge in nursery management 	<ul style="list-style-type: none"> Plant protection Nursery management 	<ul style="list-style-type: none"> Cultivation of orchard crops & maintenance Nursery management practices in fruit crops 	02 02
Potato	<ul style="list-style-type: none"> Lack of knowledge 	<ul style="list-style-type: none"> Popularization of HYV 	<ul style="list-style-type: none"> Seed selection, seed treatment & sowing of potato Production technology of Potato 	02 02
Kitchen Gardening	<ul style="list-style-type: none"> Lack of knowledge 	<ul style="list-style-type: none"> Popularization 	<ul style="list-style-type: none"> Establishment of nutritional garden 	02
Arecanut	<ul style="list-style-type: none"> Flower dropping & nuts splitting Improper selection of mother palm and seed net 	<ul style="list-style-type: none"> INM 	<ul style="list-style-type: none"> INM in Arecanut Selection of mother palm & seed nuts for higher yield in Arecanut 	02 02
Coconut	<ul style="list-style-type: none"> Improper selection of mother palm and seed net 	-	<ul style="list-style-type: none"> Selection of mother palm & seed nuts for higher yield in Coconut 	02 02
Banana	<ul style="list-style-type: none"> Low productivity 	<ul style="list-style-type: none"> INM 	<ul style="list-style-type: none"> INM in Banana 	02

1	2	3	4	5
Tomato	<ul style="list-style-type: none"> Fruit rot 	<ul style="list-style-type: none"> Staking in Tomato 	<ul style="list-style-type: none"> Stacking in Tomato 	02
Bhendi	<ul style="list-style-type: none"> Incidence of YVMV 	<ul style="list-style-type: none"> Plant protection 	<ul style="list-style-type: none"> Management of YVMV in Bhendi 	02
Onion	<ul style="list-style-type: none"> Low yield 	<ul style="list-style-type: none"> Popularization of HYV 	<ul style="list-style-type: none"> Production technology of Onion 	02
Dry Land Horticulture	<ul style="list-style-type: none"> More diversification in farming system 	<ul style="list-style-type: none"> Promotion of fruit crops in Dry land 	<ul style="list-style-type: none"> Dry land horticulture 	05
Weaning mixes / baby foods	<ul style="list-style-type: none"> Lack of knowledge and skill 	<ul style="list-style-type: none"> Preparation of weaning mixes 	<ul style="list-style-type: none"> Preparation of weaning mixes using locally available food grains 	02
Nutrition Education	<ul style="list-style-type: none"> Malnutrition Less knowledge and adoptability 	<ul style="list-style-type: none"> Promotion of Kitchen guard Imparting nutrition education 	<ul style="list-style-type: none"> Nutrition education to rural women 	02
Value addition to food crops	<ul style="list-style-type: none"> Lack of knowledge and skill 	<ul style="list-style-type: none"> Poor health of farmers due to non enrichment of cereals 	<ul style="list-style-type: none"> Enrichment of cereals' flours with pulses and other derivatives 	02
Income Generating Activities	<ul style="list-style-type: none"> Non utilization of spare time by farm Women 	<ul style="list-style-type: none"> Proper use of spare time for income generation 	<ul style="list-style-type: none"> Utilization of waste clothes for preparation of soap powder, phenyl, quilt, Foot mats etc., 	02
Pickles, Varieties of Chutneys preparations	<ul style="list-style-type: none"> Lack of awareness about quality parameters 	<ul style="list-style-type: none"> Preservation in brine water 	<ul style="list-style-type: none"> Preparation of various pickles and varieties chutneys 	02
Groundnut decorticator	<ul style="list-style-type: none"> Energy Labour & time consuming Mechanical shelling causes damage of seeds 	<ul style="list-style-type: none"> Hand operated ground nut decorticator-Cum-seeder 	<ul style="list-style-type: none"> Use of Hand operated ground nut decorticator-Cum-seeder 	01
Groundnut stripper	<ul style="list-style-type: none"> Energy Labour & time consuming 	<ul style="list-style-type: none"> Hand operated ground nut stripper 	<ul style="list-style-type: none"> Use of groundnut stripper 	02

1	2	3	4	5
Drudgery reducing equipments	<ul style="list-style-type: none"> • Use of local implements • Energy Labour & time consuming 	<ul style="list-style-type: none"> • Use of rotary Weeder, improved sickle, sarala kurpi to reduce time, Labour & energy consumption 	<ul style="list-style-type: none"> • Use of Drudgery reducing equipments in Ragi, Maize, Sugarcane, Sunflower & Groundnut 	02
Fish	<ul style="list-style-type: none"> • Practice of pond aquaculture is not popular, hence causing major yield loss from potential water sources 	<ul style="list-style-type: none"> • Integrated inland pond Aquaculture 	<ul style="list-style-type: none"> • Introduction to integrated pond aquaculture • Grow out management of pond fish culture • Pond health management in inland aquaculture 	03
Contract Farming	<ul style="list-style-type: none"> • No fixed price for the produce in the market • Lack of technical knowledge for cultivation of crops 	<ul style="list-style-type: none"> • Predetermined price • Assured market • Technical knowledge 	<ul style="list-style-type: none"> • Contract farming - boon to farmers 	03
WTO	<ul style="list-style-type: none"> • Small and marginal farming systems • Low competitive attitude • Low production and productivity and low quality 	<ul style="list-style-type: none"> • Farming systems • Competitiveness • Improved quality 	<ul style="list-style-type: none"> • Impact of WTO in agriculture 	02

Table 8: Plan for Sponsored Training Programmes during 2007-08

Crop / Enterprise	Identified Thrust Area	Organization	Training Course Title	No. of Courses	Sponsoring Agency
Vegetable Crops	Production Technology	KSDH, Davanagere	Production technology of vegetables	03	KSDH, Davanagere
Milk Unions	Clean Milk Production	Milk Producers Cooperative society	Clean Milk Production	100	SHIMUL
Vermi composting	Crop waste recycling	KRVP	Composting through recycling of crop remains	05	KRVP
Canara Bank	Self Employment Generation	SHGs	IGA for SHGs	02	Canara Bank

Table 9: Details of Extension activities planned for 2007-08

Month	Block & Village	Extension activity	Its relation to KVK activities	Expected category of participants	Remarks
1	2	3	4	5	6
April	Mellekatte	Group meeting	FLD	Women SHG members	World Health day
		Field visit	FLD	Farmers and Farm women	--
May	Mellekatte, Nandikamba, Budihal,	Field visit	FLD	Farmers and Farm women	--
	Mellekatte	Training	FLD	Farmers and Farm women	--
	Mellekatte, Nandikamba, Budihal,	Film / Slides Shows	FLD	Farmers and Farm women	--
June	Marabanahalli, Siddanamatha, Devarahalli	Field visit	FLD	Farmers and Farm women	--
	Mellekatte	Method Demonstration	FLD	Farmers and Farm women	--
		Film / Slides Shows	FLD	Farmers and Farm women	--
July	Maganahalli K.N. Halli	Group meeting	FLD	Farmers and Farm women	National Fish Farmers day
		Field visit	FLD	Farmers and Farm women	--

1	2	3	4	5	6
August	Ramagondanahalli	Field visit	FLD	Farmers and Farm women	--
		Method Demonstration	FLD	Farmers and Farm women	--
	Mellekatte, Shiramangondanahalli, Devarahalli, Siddanamatha,	Field Day	FLD	Farmers and Farm women	--
September	Mellekatte	Field visit	FLD	Farmers and Farm women	--
	-	Exhibition	-	Mass	--
	Siddanamata, Kurki	Exposure visits	Formation of SHGs	Farmers and Farm Women	Krishi Mela at UAS, Dharwad
October	Basavapattana	Seminar		Men and Women SHG members	World food day
		Field visit	FLD	Farmers and Farm women	--
		Method Demonstration	FLD	Farmers and Farm women	--
November	Budihal, Nandikamba	Field visit	FLD	Farmers and Farm women	--
	Kurki	Exposure visits	Formation of SHGs	Farmers and Farm Women	Krishi Mela at UAS, Bangalore
	Budihal, Nandikamba	Field Day	FLD	Farmers and Farm women	--
December	Kurki	Demonstration		Women SHG members	Women in Agriculture, Kisan Divas
		Field visit	FLD	Farmers and Farm women	
		Method Demonstration	FLD	Farmers and Farm women	--
January	Ramagondanahalli	Field visit	FLD	Farmers and Farm women	--
February	-	Exhibition	-	Mass	--
March	Deverahalli	Field day	FLD	Farmers and Farm women	--

LIST OF METHOD DEMONSTRATIONS

- Aerobic method of Paddy cultivation
- Boron application in Sunflower
- Seed treatment with Rhizobium and Trichoderma in Groundnut
- Spraying techniques for control of BPH in Paddy
- Seed bed preparation in nursery for vegetables
- Use of pottrays for raising quality seedlings in vegetables
- Use of Groundnut decorticator and stripper
- Installation of pheromone traps
- Pond preparation before stoking of fish fingerlings
- Fish feed preparation
- Insitu composting in sugarcane
- Pit preparation of vermicompost
- Use of bio agents in composting
- Mushroom recipe preparation
- Preparation of jam, jelly and ketchup
- Seed inoculation in mushroom cultivation
- Water spring and harvesting of mushroom
- Use of Sarala Kurpi, Rotary weeder, Improved sickle
- Procuring & stocking of fish fingerlings