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### ZONAL PROJECT DIRECTORATE – ZONE VIII BANGALORE

#### ACTION PLAN OF KVKs IN ZONE VIII FOR THE YEAR 2010-11

##### GENERAL INFORMATION ABOUT KRISHI VIGYAN KENDRA

1.	Name and address of KVK with Phone, Fax and e-mail	:	Taralabalu Krishi Vigyan Kendra Kadalivana, LIC Colony Layout, B.I.E.T. College Road DAVANAGERE-577004 Karnataka Telephone : 08192-263462 Fax : 08192-260969 E-mail : <a href="mailto:dvgtkvv@yahoo.com">dvgtkvv@yahoo.com</a> / <a href="mailto:tkvv@taralabalu.org">tkvv@taralabalu.org</a>
2.	Name and address of host organization with Phone, Fax and e-mail	:	Taralabalu Rural Development Foundation SIRIGERE-577541 Dist.: Chitradurga Phone: 08194 – 268829, 268842 Fax: 08194 – 268847 E – mail: <a href="mailto:trdf@taralabalu.org">trdf@taralabalu.org</a>
3.	Name of the Programme Coordinator Residence Phone Number/ Mobile No.	:	Dr.T.N.Devaraja Mob.: 94498-56876
4.	Year of sanction	:	2004
5.	Year of start of activities	:	June 2005
6.	Major farming systems/enterprises  Population Farm families Agricultural Labourers	:	<b>Rainfed system:</b> Maize, Maize+Redgram Ragi, Ragi+Horsegram, Greengram-Ragi, Minormilletts, Jowar, Bengalgram , Redgram, Groundnut, Sunflower, Cotton, Mango. <b>Irrigated system:</b> Rice- Rice, Sugarcane, Arecanut, Banana, Coconut, Papaya, Vegetable crops, Fodder crops, <b>Enterprises:</b> Poultry, Dairy, Sheep/ Goat rearing, Fisheries, Vegetable nursery, Nursery  17,90,952 (2001 census) 2,19,988 1,70,138
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.	Annual rainfall (mm)	:	Normal - 646 mm (Actual-995 mm 2009)

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### 10. Staff Strength as on 01-03-2010:

	Programme Coordinator	Subject Matter Specialists	Programme Assistant	Administrative Staff	Auxiliary Staff	Supporting Staff	Total
Sanctioned	1	6	3	2	2	2	16
Filled	1	6	2	2	2	2	15

### 11. Details of staff as on 01-03-2009:

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Pay scale	Date of joining	Permanent/ Temporary
1.	Programme Coordinator	Dr. Devaraja T.N.	Fisheries	12000-420-18300	17-05-05	Per.
2.	Subject Matter Specialist	Mr.Basavanagowda M.G.	Horticulture	8000-275-13500	21-11-06	Per.
3.	Subject Matter Specialist	Mr. Mallikarjuna B.O.	Agronomy	8000-275-13500	09-01-08	Per.
4.	Subject Matter Specialist	Dr. Jayadevappa G.K.	Animal Science	8000-275-13500	29-01-08	Per.
5	Subject Matter Specialist	Mr. Raghuraja J.	Agriculture Extension	8000-275-13500	23-06-08	Per.
6	Subject Matter Specialist	Mr. Prasanna Kumara N.	Plant Protection	8000-275-13500	24-06-08	Per.
7	Subject Matter Specialist	Dr. Pradeep H.M.	Soil Science	8000-275-13500	25-06-08	Per.
8	Programme Assistant	Vacant				
9	Computer Programmer	Mr. Santhosh B.	Computer	5500-175-9000	05-09-08	Per.
10	Farm Manager	Mr. Vijaya Kumar S.B.	Farm Manager	5500-175-9000	23-06-08	Per.
11	Assistant	Mr.Mallikarjuna S. Gudihindala	Assistant	5500-175-9000	01-06-05	Per.
12	Stenographer Grade-III	Mrs.Mamatha H. .Melmalagi	Stenographer Grade-III	4000-100-6000	26-06-05	Per.
13	Driver	Mr.N.M.Marulasiddaiah	Driver	3200-85-4900	01-06-05	Per.
14	Driver	Mr.S. Shivakumar	Driver	3200-85-4900	01-06-05	Per.
15	Grade-I	Mr.B. Shivakumar	Grade-I	2550-55-2660-60-3200	01-06-05	Per.
16	Grade-I	Mr.S.E. Shivakumar	Grade-I	2550-55-2660-60-3200	01-06-05	Per.

\* Pay Scale based on existing norms

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### 12. Plan of Human Resource Development of KVK personnel during 2010-11

S. No	Discipline	Area of training required	Institution where training is offered	Approximate duration (days)	Training fee (Rs.)
01	Horticulture	Application of Remote sensing and geographical Information Systems in Agricultural Development	MANAGE Hyderabad	06	-
02	Horticulture	Promotion of sustainable	MANAGE Hyderabad	06	-
03	Horticulture	Managing Public Private Partnership in Agricultural Research	NAARM Hyderabad	07	Under NAIP
04	Plant protection	IPM in oilseed and pulses	DOR, Hyderabad	07	-
05	Plant protection	Hands on training on IPDM	UAS, Bangalore	07	-
06	Extension	Participatory Impact Monitoring Analysis	ZPD, Bangalore	06	-
07	Extension	Managerial skills for extension personnel	MANAGE Hyderabad	06	-
08	Extension	Managing Human Resource Development for Extension Personnel	MANAGE Hyderabad	06	-
09	Fisheries	Advances in Fish culture	UAS, Bangalore	03	-

### 13. Infrastructure:

#### i) Land

Total Area (ha)	Area Cultivated (ha)	Area occupied by buildings and roads (ha)	Area with demonstration units (ha)
15	13 (8 for crops + 5 for agro forestry/orchards)	1.75	0.25

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### ii) Buildings

Admn. Building			Trainees Hostel			Staff Quarters			Demonstration Unit		
Plinth area (m <sup>2</sup> )	Cost (Rs. in lakhs)	Year	Plinth area (m <sup>2</sup> )	Cost (Rs. in lakhs)	Year	Plinth area (m <sup>2</sup> )	Cost (Rs. in lakhs)	Year	No.	Plinth area (m <sup>2</sup> )	Cost (Rs. in lakhs)
550	47.55	2007-08	300	21.24	2007-08	392	28.61	2007-08	Dairy, Mushroom and other demonstrations unit	160	6.41

### iii) Vehicles

Type of vehicle	Model	Actual cost (Rs.)	Total kms. Run	Present status
Tempo Cruiser	2005	4,99,250/-	85446	Good
Hero Honda CD Deluxe	2006	39,298/-	27605	Good
Yamaha Alba	2009	48,309/-	7500	Good
Tractor & Trailer	2005	4,99,995/-	1478 hours	Good
Power tiller (Funded by cotton FLD)	2008	99,400/-	--	Good
Power tiller (Funded by ICAR)	2010	1,49,950/-	--	Good

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### iv) Equipments and AV aids

Sl. No.	Name of Equipments	Date of purchase	Cost (Rs.in lakhs)	Present status
1	Xerox Machine	2006	73,840/-	Good
2	Digital Camera	2006	19,900/-	Not in working condition
3	Over Head Projector	2006	19,935/-	Good
4	TV with DVD Player (Funded by: SHIMUL)	2006	11,350/-	Good
5	LCD projector system + Computer + Laser jet printer	2007	1,00103/-	Good
6	VRC system (Funded by UAS, Bangalore)	2008	--	Good
7	Fax (4 in one)	2009	15,000/-	Good

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### 14. Details of SAC meeting conducted during 2009-10

Sl. No	Date	Major recommendations of SACs which are to be implemented during 2010-11
1	<b>20-03-2010 8<sup>th</sup> SAC Meeting conducted</b>	To train Horticulture trainees from Siddanur village on Post Harvest Technologies
2		To promote farmers growing organic vegetables and helping them to market those products.
3		To promote tree based farming among farmers.
4		To conduct more number of vocational training programmes.
5		To link FFS activities to Annadata TV programme.
6		To justify the OFTs and FLDs conducted repeatedly.
7		To conduct more of Field Days in extension activities.
8		To continue OFT on Tur transplanting.
9		To popularize Agri-Horti-Silvi – Pasture in Siddanur village
10		Encourage pulse production among farmers.
11		To document data in computer especially field visit and recommendation given. i.e. To use computer for more of technical purposes.
12		Scientific information dissemination through mobile phones should be documented.
13		Suggested to prepare a booklet on different schemes / programmes available from different line department pertaining to KVK mandates. Action to be taken by SMS (Agricultural Extension).
14		In waste lands, KVK has to popularize the cashew crop.
15		To avoid use of grain such as Ragi for Cattle feed and insisted for use of other grains locally available at cheaper cost.
16		To record straw and grain yield in the Demo plots for better comparison among crops.
17		To popularize fodder varieties of IGFRI, for which it is ready to supply planting material required.
18		To incorporate Lucerne feeding in fish culture.
19		To promote growing of Lucerne among small Dairy farmers.
20		SMS (Extension) should meet Lead Bank Manager and collect information about schemes for rural youths and women.
21		To establish plant health clinic at KVK.
22		Activities on maintenance of plant protection equipments should be given priority.
23		To popularize pulses as intercrop in Maize, Growing pulses improves the soil fertility.
24		To conduct sensitization programme for Agriculture Extension officers and Farmers regarding availability of loan facility from Banks.
25		To popularize subabul trees plantation and Azolla cultivation to alleviate fodder scarcity.
26		To educate farmers on correct use of fertilizers and pesticides ( dosage)
27		To encourage more of horticulture crops as there is labour problem.
28		Popularize Tur varieties for different seasons and also to standardize the cost of production.
29		To adopt closer spacing in maize sowing.

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15. Plan of Work for 2010-11

**TABLE 1: OPERATIONAL AREA DETAILS FOR 2010-11**

Sl. No.	Taluk	Blocks/groups of villages	Major crops & enterprises being practiced	Major problems identified	Identified thrust areas
01	Davanagere	Kandagal Turchagatta	Coconut	<ul style="list-style-type: none"> <li>• Heavy incidence of mites and CBHC</li> <li>• Poor nutrient management</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> </ul>
		Kandagal Kurki	Redgram	<ul style="list-style-type: none"> <li>• No seed treatment with bio fertilizers</li> <li>• Use of local varieties</li> <li>• Incidence of pod borer</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> <li>• Integrated Nutrient Management</li> <li>• Bio fertilizers usage</li> </ul>
		Halebisleri, Belavanuru, Hoovinamadu	Rice	<ul style="list-style-type: none"> <li>• No seed treatment with bio-fertilizers</li> <li>• No zinc application</li> <li>• Less usage of organic manures</li> <li>• Excess application of chemical fertilizers</li> <li>• Less application of Potash</li> <li>• Higher incidence of stem borer, BPH and Blight</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Integrated Pest Management</li> <li>• Bio-agents usage</li> </ul>
		Bullapura	Rice	<ul style="list-style-type: none"> <li>• High cost of production of field crops</li> </ul>	<ul style="list-style-type: none"> <li>• Extensive fish aquaculture</li> </ul>
		Halebisleri Belavanur Naganur Shyamanur Hosachikkanahalli Avaragere Basapura	Maize	<ul style="list-style-type: none"> <li>• Poor fertilizer management particularly with potash</li> <li>• Stem borer and downy mildew</li> <li>• Application of organic manure (3 t)</li> <li>• Improper nutrient management (1 bag DAP, 25 kg 20:20, 25 kg Potash)</li> <li>• No micronutrient (ZnSO<sub>4</sub>)</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> <li>• Zinc application</li> <li>• Resistant hybrid</li> </ul>

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	Halebisleri Belavanur Naganur Shyamanur Hosachikkanahalli Avaragere Basapura	Cotton	<ul style="list-style-type: none"> <li>• Improper spacing and seed rate</li> <li>• Sucking pest</li> <li>• Leaf reddening and square drying</li> <li>• No micronutrient KNO<sub>3</sub> sprays</li> <li>• Improper Nutrient Management</li> </ul>	<ul style="list-style-type: none"> <li>• Higher production with good staple length</li> <li>• Bt hybrid</li> <li>• Use of growth regulator and micronutrients</li> <li>• IPM measures</li> </ul>	
		Ragi	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Use of locally available seeds</li> <li>• Improper nutrient management</li> <li>• No intercropping system</li> <li>• No seed treatment with biofertilizers</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated crop management</li> <li>• Higher production and productivity</li> </ul>	
		- Rearing milch animals - Sheep and goat rearing - Lactating cows - Poultry	<ul style="list-style-type: none"> <li>• Low milk production</li> <li>• Low meat production</li> <li>• Lower body weight gain</li> </ul>	<ul style="list-style-type: none"> <li>• Nutrition</li> <li>• Nutrition and breeding</li> </ul>	
		Arecanut	<ul style="list-style-type: none"> <li>• Dropping of immature nuts</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> </ul>	
		Siddanuru Elebeturu	Banana	<ul style="list-style-type: none"> <li>• Lower bunch weight</li> <li>• Poor nutrition</li> <li>• Leaf spot and wilt incidence</li> </ul>	<ul style="list-style-type: none"> <li>• Micronutrient Management</li> <li>• Integrated Disease Management</li> </ul>
			Tomato	<ul style="list-style-type: none"> <li>• Fruit cracking</li> <li>• Un uniform flowering</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> </ul>

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02	Harihar	Jigali	Betelvine	<ul style="list-style-type: none"> <li>• Death of standards due to pest incidence</li> </ul>	<ul style="list-style-type: none"> <li>• Quality standards for better production</li> </ul>
			Coconut	<ul style="list-style-type: none"> <li>• Heavy CBHC incidence</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Crop Management</li> </ul>
		Kenchanahalli	Maize Dairy Tank fish	<ul style="list-style-type: none"> <li>• Unscientific fish culture practices</li> <li>• Lack of fresh fodder</li> </ul>	<ul style="list-style-type: none"> <li>• Extensive fish aquaculture</li> <li>• Popularizing fodders</li> </ul>
03	Channagiri	Harosagara Basavapatna	Arecanut	<ul style="list-style-type: none"> <li>• Dropping of nuts</li> <li>• Hidimundige roga and Inflorescence die back</li> <li>• Improper Nutrient Management</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Crop Management</li> <li>• Organic Cultivation</li> <li>• Integrated Pest Management</li> </ul>
		Yeragattihalli Nithigere Nuggehalli	Bengalgram	<ul style="list-style-type: none"> <li>• No seed treatment with bio fertilizers</li> <li>• Pod borer and wilt incidence</li> <li>• Use of local varieties</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> <li>• Proper pesticide spray</li> <li>• Micronutrient spray</li> </ul>
		Bommenahalli	Cotton Bengalgram	<ul style="list-style-type: none"> <li>• Improper spacing and seed rate</li> <li>• Sucking pest</li> <li>• Leaf reddening and square drying</li> <li>• No micronutrient KNO<sub>3</sub> sprays</li> <li>• Improper Nutrient Management</li> </ul>	<ul style="list-style-type: none"> <li>• Higher production with good staple length</li> <li>• Bt hybrid</li> <li>• Use of growth regulator and micronutrients</li> <li>• IPM measures</li> </ul>
			Ragi	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Use of locally available seeds</li> <li>• Improper nutrient management</li> <li>• No intercropping system</li> <li>• No seed treatment with biofertilizers</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated crop management</li> <li>• Higher production and productivity</li> </ul>

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04	Honnali	Neralagundi	Banana	<ul style="list-style-type: none"> <li>• Lower bunch weight</li> <li>• Less number of fingers in the bunch</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management</li> </ul>
		Taraganahalli	Cotton	<ul style="list-style-type: none"> <li>• Improper spacing and seed rate</li> <li>• Sucking pest</li> <li>• Leaf reddening and square drying</li> <li>• No micronutrient KNO<sub>3</sub> sprays</li> <li>• Improper Nutrient Management</li> </ul>	<ul style="list-style-type: none"> <li>• Higher production with good staple length</li> <li>• Bt hybrid</li> <li>• Use of growth regulator and micronutrients</li> <li>• IPM measures</li> </ul>
05	Jagalur	Bilichodu	Kitchen Garden	<ul style="list-style-type: none"> <li>• Lack of fresh fruits and vegetables</li> </ul>	<ul style="list-style-type: none"> <li>• Kitchen Garden</li> </ul>
		Jagalur Biderikere	Groundnut	<ul style="list-style-type: none"> <li>• Lack of awareness on seed treatment</li> <li>• Improper Nutrient Management</li> <li>• Leaf minor, Bud necrosis and collar rot incidence</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> </ul>
		Jagalur	Sunflower	<ul style="list-style-type: none"> <li>• Improper Pest Management</li> <li>• Bud necrosis, BHC problem</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Pest Management</li> </ul>
		Alekal	Cotton	<ul style="list-style-type: none"> <li>• Improper spacing and seed rate</li> <li>• Sucking pest</li> <li>• Leaf reddening and square drying</li> <li>• No micronutrient (KNO<sub>3</sub>) sprays</li> <li>• Improper Nutrient Management</li> </ul>	<ul style="list-style-type: none"> <li>• Higher production with good staple length</li> <li>• Bt hybrid</li> <li>• Use of growth regulator and micronutrients</li> <li>• IPM measures</li> </ul>
06	Harapanahalli	Hemman bethur	Dry land Horticulture	<ul style="list-style-type: none"> <li>• Major area in rainfed condition</li> <li>• Lower water table</li> </ul>	<ul style="list-style-type: none"> <li>• Soil and water conservation</li> <li>• Inter cropping and mixed cropping</li> <li>• Promotion of fruit crops which require less moisture.</li> </ul>
		Anajigere Bheemanathanda Kallahalli	Maize Dairy Tank fisheries	<ul style="list-style-type: none"> <li>• Unscientific fish culture practices</li> </ul>	<ul style="list-style-type: none"> <li>• Extensive fish aquaculture</li> </ul>

**LIST OF THRUST AREAS FOR THE KVK FOR 2010-11**

- i) Integrated Nutrient Management in Mango, Arecanut, Coconut
- ii) Integrated Crop Management in Tomato, Banana, Rice, Ragi, Maize, Cotton, Groundnut Sunflower, Bengalgram and Redgram
- iii) Integrated Diseases Management in Coconut, Arecanut and Banana
- iv) Livestock and poultry nutrition
- v) Quality clean milk production
- vi) Extensive fish aquaculture
- vii) Supply of quality planting materials in horticulture crops
- viii) Soil test based fertilizer recommendation
- ix) Organic farming
- x) Market linkage to Banana growers

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**TABLE.2 Abstract of Interventions Proposed Based On the Identified Problems during 2010-11**

Sl. No	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	Others
1	Banana	<ul style="list-style-type: none"> <li>• Lesser bunch weight due to improper micronutrient management</li> <li>• Sigatoka leaf spot</li> </ul>	-	<ul style="list-style-type: none"> <li>• Foliar application of 'Banana special' to increase bunch weight in Banana</li> <li>• Integrated Management of Sigatoka leaf spot in Banana</li> </ul>	<ul style="list-style-type: none"> <li>• Importance of sucker selection in Banana</li> <li>• Management of pest and diseases in Banana</li> <li>• INM in Banana</li> </ul>	<ul style="list-style-type: none"> <li>• Nutrient management in Banana</li> <li>• Integrated Management of leaf spot in Banana</li> </ul>	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Method demonstration on preparation of spray solution and spraying of Banana Special</li> <li>• Field visits</li> <li>• Trainings</li> <li>• T.V. Show</li> <li>• Field day</li> </ul>
2	Coconut	<ul style="list-style-type: none"> <li>• Poor quality nuts</li> <li>• Heavy incidence of BHC and mite</li> <li>• Poor nutrition</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment of coconut Nutritional tonic to strengthen coconut palms</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Management of BHC in Coconut</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated pest and disease management in Coconut</li> <li>• Integrated Nutrient Management in Coconut</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Crop Management in Coconut</li> </ul>	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Method of demonstration</li> <li>• Field visits</li> <li>• Workshop</li> <li>• Seminar</li> <li>• Trainings</li> <li>• Root feeding with Coconut tonic</li> </ul>

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3	Arecanut	<ul style="list-style-type: none"> <li>• Hidimundige roga incidence</li> <li>• Snails problem</li> </ul>	<ul style="list-style-type: none"> <li>• Management of snails problem in arecanut</li> <li>• Assessment of Mucuna as intercropping in Arecanut</li> </ul>	Integrated Management of Hidimundige roga in Arecanut	<ul style="list-style-type: none"> <li>• Integrated Management of Hidimundige roga in Arecanut</li> <li>• Management of snails on arecanut</li> </ul>	<ul style="list-style-type: none"> <li>• IPDM in Horticulture crops</li> </ul>	<ul style="list-style-type: none"> <li>• Workshop</li> <li>• T.V. Shows</li> <li>• Seminar</li> <li>• Method demonstration</li> <li>• Trainings</li> </ul>
4	Betelvine	<ul style="list-style-type: none"> <li>• Death of standards due to pest incidence</li> </ul>	<ul style="list-style-type: none"> <li>• Revival of betel vine gardens using gall wasp tolerant <i>Erythrina spp</i>, standard</li> </ul>	-	<ul style="list-style-type: none"> <li>• Production Technology of Betelvine</li> </ul>	-	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Method of demonstration</li> <li>• Field visits</li> <li>• Trainings</li> </ul>
5	Sunflower	<ul style="list-style-type: none"> <li>• Bud necrosis, powdery mildew, BHC and head borer problems</li> <li>• Closer spacing</li> <li>• Improper nutrient and pest management</li> </ul>	-	ICM in powdery mildew resistant sunflower hybrid KBSH-53	<ul style="list-style-type: none"> <li>• Recent advances in sunflower production</li> </ul>	Recent advances in sunflower production	<ul style="list-style-type: none"> <li>• Training</li> <li>• Field day</li> <li>• TV shows</li> </ul>
6	Groundnut decorticat ors	<ul style="list-style-type: none"> <li>• Poor knowledge of improved drudgery reducing equipments</li> <li>• During sowing time there is labour scarcity for shelling of Groundnut and need more time ,energy and labour.</li> </ul>	Assessment of groundnut decorticat ors		<ul style="list-style-type: none"> <li>• Use of Groundnut decorticat ors as a drudgery reducing equipments</li> </ul>		<ul style="list-style-type: none"> <li>• Training</li> <li>• Method of demonstration</li> </ul>

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7	Groundnut	<ul style="list-style-type: none"> <li>• Collar and root rot, bud necrosis and leaf minor problem</li> <li>• No gypsum application</li> <li>• No seed treatment</li> </ul>	-	ICM in new groundnut variety KCG-2	<ul style="list-style-type: none"> <li>• Improved cultivation practices in groundnut</li> </ul>	Recent advances in production and pest management in groundnut	<ul style="list-style-type: none"> <li>• Training</li> <li>• Field day</li> <li>• TV shows</li> </ul>
8	Sesamum	<ul style="list-style-type: none"> <li>• Poor productivity</li> <li>• Low income</li> <li>• Monocropping</li> </ul>	Intercropping of sesamum and redgram to achieve higher productivity and net income	-	Recent advances sesamum in production	Recent advances sesamum in production	<ul style="list-style-type: none"> <li>• Training</li> <li>• Field day</li> <li>• TV shows</li> </ul>
9	Mango	<ul style="list-style-type: none"> <li>• Incidence of Mango leaf hopper</li> <li>• Heavy fruit drop</li> <li>• Poor nutrition</li> <li>• Incidence of fruit fly</li> </ul>	-	<ul style="list-style-type: none"> <li>• Micro nutrient management in Mango through foliar application of 'Mango special'</li> <li>• Integrated pest management of leaf hopper and fruit fly</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated Crop Management in Mango</li> </ul>	-	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Method demonstration on fruit fly trap installation</li> <li>• Field visits</li> <li>• Trainings</li> </ul>
10	Drumstick	<ul style="list-style-type: none"> <li>• Lower yields in local varieties</li> </ul>	-	<ul style="list-style-type: none"> <li>• Production technology of "KDM-1" variety of Drumstick as intercrop in Coconut gardens</li> </ul>	<ul style="list-style-type: none"> <li>• Production technology of Drumstick</li> </ul>	-	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Method demonstration</li> <li>• Field visits</li> <li>• Trainings</li> </ul>

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11	Redgram	<ul style="list-style-type: none"> <li>• Pod borer</li> <li>• Less use of biofertilizer</li> <li>• Low yield</li> </ul>	Enhancing the productivity in redgram production systems	<ul style="list-style-type: none"> <li>• Integrated crop management in Redgram</li> </ul>	<ul style="list-style-type: none"> <li>• Role of pheromone traps in Redgram</li> <li>• Use of bio fertilizers for improving soil health</li> <li>• Integrated nutrient management in Redgram</li> </ul>	-	-
12	Maize	<ul style="list-style-type: none"> <li>• Improper nutrient management</li> <li>• No potash application</li> <li>• No intercropping</li> <li>• Pest and disease problem</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment on plant geometry in Maize</li> <li>• Yield and income maximization in Maize</li> </ul>	Integrated crop management in maize	<ul style="list-style-type: none"> <li>• Integrated nutrient management in Maize</li> <li>• Management of pest and diseases in maize</li> </ul>	-	<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Method demonstration</li> <li>• Field visits Trainings</li> </ul>
13	Rice	<ul style="list-style-type: none"> <li>• Improper nutrient management</li> <li>• Improper water management</li> <li>• Incidence of stem borer, BPH , Blast and blight</li> </ul>		Integrated Crop Management in Rice	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management in Rice</li> <li>• Production and use of organic inputs</li> <li>• Integrated Pest Management in Rice</li> </ul>	-	-
14	Tomato	<ul style="list-style-type: none"> <li>• Poor quality</li> <li>• Fruit cracking and splitting</li> <li>• Flower drop</li> <li>• Low yield</li> </ul>		Integrated Nutrient Management in Tomato	<ul style="list-style-type: none"> <li>• Integrated Nutrient Management in Tomato</li> <li>• Role of micronutrients in Tomato</li> </ul>	-	-

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15	Bengal gram	<ul style="list-style-type: none"> <li>No seed treatment with bio fertilizers</li> <li>Pod borer and wilt incidence</li> <li>Use of local varieties</li> </ul>		Integrated Crop Management in Bengalgram	<ul style="list-style-type: none"> <li>Seed treatment with trichoderma / bio fertilizers</li> <li>Role of pheromone traps in management of pod borer</li> <li>Integrated Pest Management in Redgram</li> </ul>	-	-
16	Ragi	<ul style="list-style-type: none"> <li>Use of locally available seeds</li> <li>Improper nutrient management</li> <li>No bio fertilizers application</li> </ul>		Integrated crop management in Ragi	<ul style="list-style-type: none"> <li>Integrated nutrient management in Ragi</li> </ul>	-	<ul style="list-style-type: none"> <li>Group discussion</li> <li>Method demonstration</li> <li>Field visits</li> <li>Trainings</li> </ul>
17	Dairy Animals	<ul style="list-style-type: none"> <li>Deficiency of energy in lactating cows (Energy is the most limiting nutrient in the diet of dairy cattle)</li> <li>Improper nutrient management in fodder crops</li> </ul>	Supplementation of Ragi grain as a locally available energy source for lactating cows	Production and feeding Co-3 /Co-4 fodder for reducing the feed cost in dairy animals	<ul style="list-style-type: none"> <li>Production technology of Co-3 /Co-4</li> <li>fodder Balanced nutrition in dairy animals</li> <li>Production technology of DHN-6 fodder</li> </ul>	-	<ul style="list-style-type: none"> <li>Method of demonstration</li> <li>Field visits</li> <li>Trainings</li> </ul>
18	Poultry	<ul style="list-style-type: none"> <li>Lack of energy source in the feeding and use of local birds</li> </ul>	-	Rearing of Giriraja birds in backyard	<ul style="list-style-type: none"> <li>Rearing of Giriraja birds in backyard</li> </ul>	-	<ul style="list-style-type: none"> <li>Field visits</li> <li>Trainings</li> </ul>

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19	Fish	<ul style="list-style-type: none"> <li>• No scientific method in fish culture</li> <li>• No rational approach to utilize available water bodies for aquaculture</li> <li>• Lower availability of seeds of fish species</li> </ul>	-	Feed based monoculture <i>Pangasius sp</i> in farm ponds	<ul style="list-style-type: none"> <li>• Fish culture techniques in farm ponds</li> </ul>	Pond fish aquaculture	-
20	Fish	<ul style="list-style-type: none"> <li>• No scientific method in fish culture</li> <li>• No rational approach to utilize available water bodies for aquaculture</li> <li>• Lower availability of seeds of fish species</li> </ul>	-	Poly culture of carps and <i>Pangasius sp</i> in farm ponds	<ul style="list-style-type: none"> <li>• Pond management in fish culture</li> <li>• Grass carp feeding techniques</li> </ul>	Pond management in fish culture	-
21	Rice	<ul style="list-style-type: none"> <li>• Difference in yield levels of rice in different methods of rice production viz. Organic and inorganic</li> </ul>	Assessment of organic and inorganic methods of rice production with respect to their economics		<ul style="list-style-type: none"> <li>• Organic and inorganic production of rice and its implications</li> </ul>		<ul style="list-style-type: none"> <li>• Group discussion</li> <li>• Field visits</li> <li>• Trainings</li> </ul>

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**TABLE 2A. Target set for number of interventions to be implemented during 2010-11**

S. No	Particulars of intervention	Target number / Quantity
<b>01</b>	<b>On Farm Trial</b>	11
<b>02</b>	<b>Front Line Demonstration (other than oil seeds, pulses and cotton)</b>	14
	<b>Front Line Demonstration (Oilseeds)</b>	--
	<b>Front Line Demonstration (Pulses) + Cotton</b>	--
<b>03</b>	<b>Training Programmes</b>	
	Farmers and farm women	72
	Rural Youth	16
	Extension personnel	17
	Sponsored programmes	31
	Vocational Programmes	04
<b>04</b>	<b>Extension Programmes</b>	
	Field Day	20
	Kisan Mela	01
	Kisan Ghosthi	01
	Exhibition	01
	Film Show	57
	Method Demonstrations	50
	Farmers Seminar on Azolla cultivation	01
	Workshop	12
	Group meetings	30
	Lectures delivered	53
	Newspaper coverage	40
	Radio coverage	03
	TV coverage	03
	Radio Programmes	11
	TV Programmes	12
	Publications	16
	Popular articles	18
	Extension Literature	17

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	Advisory Services	230
	Scientific visit to farmers field	110
	Farmers visit to KVK	200
	Diagnostic visits	38
	Field visits	95
	Exposure visits	09
	Ex-trainees Sammelan	02
	Agriculture Camps	05
	Soil health Camp	01
	Soil test campaigns	01
	Farm Science Club Conveners meet	01
	Self Help Group Conveners meetings	16
	Celebration of Nutrition week	01
	PRA exercise conducted	02
	Awareness on Cotton contract farming	01
	Insect trap awareness campaign	01
	AIDS awareness campaign	01
<b>05</b>	<b>Production and supply of seed materials</b>	
	i) Fodder - a) Stylosanthus b) Co-3 cuttings	20 kg 50000 cuttings
	<b>Production and supply of Planting materials</b>	
	Fruits	1000
	Vegetables	5000
	Ornamental crops	1000
	Plantation crops	1000
	<b>Production and supply of bio-products</b>	--
	Trichoderma	100 kg
	<b>Production and supply of livestock material</b>	--
	Milk	10000 liter
	Fisheries (Ornamental fishes)	2000 Nos
	Food fish (Carps)	50 kg
<b>06</b>	<b>Number of soil samples to be analyzed</b>	100
<b>07</b>	<b>Number of water samples to be analyzed</b>	50

**TABLE. 3 PLAN OF ON FARM TESTING FOR 2010-11**

**1. Maize (Continued for 2<sup>nd</sup> year)**

1. Title of the On Farm Trial (Continued assessment): Assessment on plant geometry in Maize for yield maximization
2. State whether it is Assessment / Refinement : Assessment
3. Agro-Ecological Zone : Zone IV (Davanagere)
4. Production System : Rainfed
5. Problem identified : Monocropping , Low yield and income
6. Number of farmers and area affected in the operational villages : 50 Farmers and 70 ha
7. Thrust areas : Integrated crop management
8. Rationale for proposing the OFT: Maize is an important crop of the district and yields are low due to uneven plants stand. There is no proper spacing followed. To increase the yield and net returns of the farmer different spacing are tried.
9. Technology Option 1

<b>Technology options</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
1	Sowing at 45 cm X 20 cm spacing	Farmer practice	15-20% yield loss

10. Technology Option 2

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
2	Sowing at 60 cm X 30 cm spacing	University of Agricultural Sciences, Bangalore	30% adoption, Recent hybrids gives lesser yield at wider spacing

11. Technology Option 3

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
3	Sowing at 45 cm X 30 cm spacing	University of Agricultural Sciences, Dharwad	Recently released hybrids perform well at moderate spacing with a plant density of 74674 plants/ha. Without pest and disease problem

- Note: A common hybrid will be used in the all the three treatments

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12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology Options			
	Name	Qty.	Unit Cost (Rs. / kg)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1.	Seeds	8 kg	50-00	400-00	Seeds	8 kg	50-00	400-00
2.	Endosulfan	1 lt.	250-00	250-00	Endosulfan	1 lt.	250-00	250-00
	<b>Total</b>			<b>650-00</b>	<b>Total</b>			<b>650-00</b>

13. Area (No. of plants) for implementing

- i) Technology Option 1 (Farmer's Practice) : 0.4 ha
- ii) Technology Option 2 (Recommended Practice) : 0.4 ha
- iii) Technology option 3 (Recommended Practice) : 0.4 ha

14. Grand Total Cost proposed per OFT : Rs. 1300-00

**2. Yield and income maximization in maize**

**1.Title of the On Farm Trial :** Assessment on intercropping of yield and income maximization in maize

**2.State whether it is Assessment / Refinement :** Assessment

**3.Agro-Ecological Zone :** Zone IV (Davanagere taluk)

**4.Production System :** Rainfed

**5.Problem identified:** No intercropping, No crop rotation, Low soil nutrient status

**6.Number of farmers and area affected in the operational villages :** 165 farmers and 260 ha area

**7.Thrust areas :** Integrated Cultivation Practices

**8.Rationale for proposing the OFT:** Farmers are growing maize as a sole crop and they are not following any crop rotation and intercropping. Soil is having low nutrient status and maize being on exhaustive crop, as a result yield is reduced. Intercropping will fetch additional income even under low rainfall and these leguminous intercrops will help in improving soil fertility.

**9. Technology Option 1**

<b>Technology options</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
1	<ul style="list-style-type: none"> <li>• Sole crop of Maize</li> <li>• Closer spacing (45 cm X 20 cm)</li> <li>• No intercropping</li> </ul>	Farmer practice	-

**10. Technology Option 2**

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
2	<ul style="list-style-type: none"> <li>• Maize and Soybean (2:2)</li> <li>• An additional yield of 8 q/ha</li> </ul>	University of Agricultural Sciences, Bangalore	Farmers are growing maize as sole crop and they are not following any crop rotation and intercropping. Soils are having low nutrient status and maize being an exhaustive crop, the yield in subsequent years will get reduced. Intercropping will fetch additional income even under low rainfall and these leguminous intercrops will help in improving soil fertility.

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### 11. Technology Option 3

Technology option	Details of Technology	Source	Justification
3	<ul style="list-style-type: none"> <li>• Maize and Frenchbean 2:2</li> <li>• An additional yield of 3 tones/ha.</li> </ul>	KVK, Bangalore Rural	Frenchbean will fetch higher additional income

### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology Options 3				
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	
1	Maize seeds	8 kg	50-00/kg	400-00	Maize seeds	8kg	50-00/kg	400-00	
2	Soyabean	25 kg	50-00/kg	1250-00	French bean	25 kg	50-00/kg	1250-00	
3	Endosulfan	2 lt.	250-00	500-00	Endosulfan	1 lt.	250-00	250-00	
4	Rogar	1 lt.	300-00	300-00	Blitox	1 kg	450-00	450-00	
<b>Total</b>				<b>2450-00</b>	<b>Total</b>				<b>2350-00</b>

13. Area : 1 ha

No. of farmers : 4

i) Technology Option 1 (Farmer's Practice) : 0.4 ha

ii) Technology Option 2 (Recommended Practice) : 0.4 ha

iii) Technology option 3 : 0.4 ha

13. Grand Total Cost proposed per OFT : Rs. 4800-00

**3. Rice**

1. Title of the On Farm Trial : Assessment of organic and inorganic methods of rice production with respect to their economics
2. State whether it is Assessment / Refinement: Assessment
3. .Agro-Ecological Zone: Zone IV (Davanagere)
4. Production System: Irrigated
5. Problem identified: Difference in yield levels of rice resulting in dwindling income
6. Number of farmers and area affected in the operational villages: 1500 farmers and 2000 ha.
7. Thrust areas: Crop production
8. Rationale for proposing the OFT: Rice is an important crop of the district and these farmers are growing rice two crops per year since long time. Poor soil condition due to continuous usage of inorganic inputs affected the yield levels. Recently much importance as been given for organic rice production and many farmers are showing interest in this practice. Therefore, we would like to assess the efficacy of three methods followed in rice production with respect to yield and income in Davanagere taluk
9. Technology Option 1

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
1	Application of inorganic inputs (Weedicides, Chemical fertilizers and Pesticides) along with irregular quantity of FYM	Farmers practice	Easy management, readily available chemical fertilizer bags overweigh others and immediate enhancement in yield

10. Technology Option 2

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
2	Application of both organic and inorganic inputs (Farm yard manure, chemical fertilizer and pesticides)	UAs, Bangalore	Yield and income maximization

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### 11. Technology Option 3

Technology option	Details of Technology	Source	Justification
3	Application organic manures( bio fertilizers/ Green manures/ ,Jeevamrutha,/ neem oil/ Vermicompost / biogas slurry,/Sour butter milk)	Farmers practice	<ul style="list-style-type: none"><li>• Sustainable yield and income with reduced cost of production</li><li>• In harmony with nature and quality food grain production</li></ul>

Variety: Bpt sona

We will be recording all the actual steps involved in rice production in all three methods. Regular meeting with farmers and visit to their fields to record crop observation. Soil analysis for NPK and other nutrients will be carried out before sowing and after the crop harvest. Several growth parameters such as number of tillers, root growth, height of the plant, performance of crop during critical stages, incidence of pest and diseases, yield and income will be recorded. Finally, economics of each method will be evaluated.

12 Budget proposed for OFT: No separate budget required for this study

13. Area (No. of farmers) for implementing

- i) Technology Option 1 (Farmer's Practice) : 5 farmers (5 acres)
- ii) Technology Option 2 (Farmer's Practice) : 5 farmers ( 5 acres)
- iii) Technology option 3 (Farmer's Practice) : 5 farmers ( 5 acres)

14. Grand Total Cost proposed for OFT : Nil

**4. Coconut (Continued for 3<sup>rd</sup> year)**

1. Title of the On Farm Trial : Assessment of Coconut Nutritional Tonic to Strengthen Coconut palms.
2. State whether it is Assessment / Refinement : Assessment
3. Agro-Ecological Zone : Zone IV (Davanagere and Harihara tq.)
4. Production System : Irrigated / Rainfed
5. Problem identified : Higher incidence of pest and diseases due to lack of resistance in Coconut palms
6. Number of farmers and area affected in the operational villages : 900 Farmers and 500 ha
7. Thrust areas : Integrated Crop Management
8. Rationale for proposing the OFT: To impart resistance in Coconut palms by proper nutrition.
9. Technology Option 1

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
1	Application of complex fertilizers ( 17:17:17 @ 150 g /palms)	Farmers practice -1(50 palms)	<ul style="list-style-type: none"> <li>• Farmers get 20-30 nuts / palm</li> <li>• Poor quality nuts</li> <li>• Heavy incidence of mites and CBHC</li> </ul>

10. Technology Option 2

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
2	FYM-50 kg/palm/year 500:320:1200 g NPK/palm/year 5 kg neem cake/ palm/year 50 g Borax /palm/year Econeam plus 1% ( 10 ml/ palm, 3 times per year)	POP University of Agricultural Sciences, Bangalore	<ul style="list-style-type: none"> <li>• Enriches soil fertility</li> <li>• Improved water holding capacity</li> <li>• Helps in getting quality nuts</li> </ul>

11. Technology Option 3

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
3	FYM-50 kg/palm/year 500:320:1200 g NPK/palm/year 5 kg Neem cake/ palm/year TNAU Coconut Nutritional tonic (200ml/palm-twice a year at 6 months interval.)	TNAU, Coimbatore	<ul style="list-style-type: none"> <li>• Strengthens Coconut palms by supplying Micronutrients and Growth regulators.</li> </ul>

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### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology Options				
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	
1	Urea	55 kg	5-00	275-00	Urea	55kg	5-00	275-00	
2	SSP	100 kg	5-00	500-00	SSP	100 kg	5-00	500-00	
3	Muriate of potash	100 kg	6-00	600-00	Muriate of potash	100 kg	6-0	600-00	
4	Borax	1.25 kg	300-00	375-00	Borax	1.25 kg	300-00	375-00	
5	Neem cake	250 kg	10-00	2500-00	Neem cake	250.00	10-00	2500-00	
6	Econeem plus	1.3 L	700-00	1050-00					
7					TNAU Coconut Tonic	8 L	375-00	3000-00	
<b>Total</b>				<b>5300-00</b>	<b>Total</b>				<b>7250-00</b>

### 13. Area (No. of plants) for implementing

- i) Technology Option 1 (Farmer's Practice) : 50 palms
- ii) Technology Option 2 (Recommended Practice) : 50 palms
- iii) Technology option 3 : 50 palms

14. Grand Total Cost proposed per OFT : Rs. 12550-00

**5. Betelvine**

1. Title of the On Farm Trial : Revival of betel vine gardens using gall wasp tolerant *erythrina* sp standards
2. State whether it is Assessment / Refinement : Assessment
3. Agro-Ecological Zone : Zone IV (Davanagere and Harihara tq.)
4. Production System : Irrigated
5. Problem identified : Higher incidence of Gall wasp to Betelvine standards resulting in crop loss.
6. Number of farmers and area affected in the operational villages : 680 Farmers and 900 ha
7. Thrust areas : Popularization of Gall wasp tolerant *erythrina* sp standards.
8. Rationale for proposing the OFT: Majority of the Betelvine gardens in Davanagere district have been destroyed due to Gall wasp infestation to *erythrina* sp standards.
9. Technology Option 1

Technology option	Details of Technology	Source	Justification
1	Use of susceptible erythrina standards to establish Betel vine gardens	Farmers practice	<ul style="list-style-type: none"> <li>• More infestation seen in this type of standards.</li> </ul>

10. Technology Option 2

Technology option	Details of Technology	Source	Justification
2	Use of alternate standards (Borle munda, Drumstick and Sesbania)	University of Agricultural Sciences, Bangalore	<ul style="list-style-type: none"> <li>• Gall wasp also affects these standards</li> </ul>

11. Technology Option 3

Technology option	Details of Technology	Source	Justification
3	Use of Gall wasp tolerant erythrina sp standards	University of Agricultural Sciences, Bangalore	<ul style="list-style-type: none"> <li>• These standards are said to show tolerance for occurrence of Gall wasp.</li> </ul>

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### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology Options			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Drumstick standards	2000	5.00	10000-00	Erythrina standards	2000	3.00	6000-00
			<b>Total</b>	<b>10000-00</b>			<b>Total</b>	<b>6000-00</b>

### 13. Area (No. of plants) for implementing

- iv) Technology Option 1 (Farmer's Practice) : 2000
- v) Technology Option 2 (Recommended Practice) : 2000
- vi) Technology option 3 : 2000

14. Grand Total Cost proposed per OFT : Rs. : 16,000-00

**6. Arecanut**

**1. Title of the On Farm Trial :** Management of Snails in Horticultural crops (Arecanut)

**2. State whether it is Assessment / Refinement :** Assessment

**3. Agro-Ecological Zone :** Zone IV (Davanagere)

**4. Production System :** Irrigated

**5. Problem identified :** Snails are becoming serious pests of horticultural crops like Arecanut, Coconut, banana, brinjal, tomato, chillie, jasmine, Aster. This pest is causing economic damage to all these horticultural crops. Farmers locally control the pest using common salt and some of them use metaldehyde that is not available in right time and harmful to pets and children in the vicinity. So an alternative way of controlling this noxious pest is required.

**6. Number of farmers and area affected in the operational villages :** 30% of farmers in horticultural crops of Davanagere Dt.

**7. Thrust areas :** Pest/Snail management for increased yields in horticultural crops

**8. Rationale for proposing the OFT :** Identifying the most appropriate/safer method of snail management

**9. Technology Option 1 :**

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
1	Farmers not adopting any control measures or use locally available salt for snail control	Farmers practice	Control of snails is not effective

**10. Technology Option 2 :**

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
2	Use of ripened Papaya Manual collection and distruction	Dept. of Entomology, UAS, Bangalore	Slightly ripened papaya attracts snails

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### 11. Technology Option 3 :

Technology option	Details of Technology	Source	Justification
3	Use of Papaya/Rice bran bait with 10 gms of Methomyl/ kg bait	Dept. of Entomology, UAS, Bangalore	Might be cost effective and easy to manage

### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options 4			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Papaya	50	10	500-00	Papaya/Rice bran	50-00	20-00	1000-00
					Methomyl	0.5 kg	1200-00	600-00
<b>Total</b>				<b>500-00</b>				<b>1600-00</b>

13. Area (ha.) for implementing : 4ha.

Technology Option 1 (Farmer's Practice) : 1ha.  
 Technology Option 2 (Recommended Practice) : 1ha.  
 Technology option 3 : 1ha.  
 Technology Option 4 : 1ha.

14. Grand Total Cost proposed for OFT : 2100-00

**7. Mucuna**

- 1. Title of the On Farm Trial :** Assessment of Mucuna as intercropping in Arecanut
- 2. State whether it is Assessment / Refinement :** Assessment
- 3. Agro-Ecological Zone :** Zone IV (Davanagere)
- 4. Production System :** Irrigated
- 5. Problem identified :** Arecanut is the major plantation crop in Davanagere district. The major problems identified are low soil fertility, higher weed in infestation leading to lower income. In order to provide higher returns and maintaining the soil fertility mucuna and other pulses are grown as intercrops in Arecanut.
- 6. Number of farmers and area affected in the operational villages :** 200 ha, 500 farmers
- 7. Thrust areas :** Intercropping, weed management and soil fertility management
- 8. Rationale for proposing the OFT :** Growing intercrops in Arecanut will give more income and reduces weed infestation in addition improves soil fertility.

**9. Technology Option 1 :**

Technology option	Details of Technology	Source	Justification
1	Arecanut	Farmers practice	-

**10. Technology Option 2 :**

Technology option	Details of Technology	Source	Justification
2	Arecanut+ Cowpea (pulses)	UAS (B)	Growing cowpea as intercrop in Arecanut will not give more income and weeds will not be controlled effectively

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### 11. Technology Option 3 :

Technology option	Details of Technology	Source	Justification
3	Arecanut+Mucuna	IIHR, Bangalore (CHES, Hirehalli)	Mucuna as intercrop is more remunerative and controls the weeds effectively.

### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options 3			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Cowpea seeds	4 kg	80-00	320-00	Mucuna seeds	12 kg	80-00	960-00
<b>Total</b>				<b>320-00</b>				<b>960-00</b>

13. Area (ha.) for implementing : 1.2 ha.

Technology Option 1 (Farmer's Practice) : 0.40 ha

Technology Option 2 (Recommended Practice) : 0.40 ha

Technology option 3 : 1ha. : 0.40 ha

14. Grand Total Cost proposed for OFT : Rs. 1280-00

**8. Redgram (BRG - 1) (Continued for 2<sup>nd</sup> year)**

1. Title of the On Farm Trial (Continued assessment): Enhancing the productivity in Redgram production system
2. State whether it is Assessment / Refinement : Assessment
3. Agro-Ecological Zone : Zone IV (Davanagere)
4. Production System : Rainfed
5. Problem identified : Less crop stand and establishment of crop, Early and late Rainfall effecting yield
6. Number of farmers and area affected in the operational villages : 100 Farmers and 40 ha
7. Thrust areas : Transplanting for better crop stand and establishment of crop
8. Rationale for proposing the OFT: Irregular rainfall pattern in recent years affecting crop stand
9. Technology Option 1

Technology option	Details of Technology	Source	Justification
1	Closer spacing (60 cm X 10 cm)	Farmers practice	-

10. Technology Option 2

Technology option	Details of Technology	Source	Justification
2	Direct sowing of Redgram (BRG-1) ( 90 cm x 15 cm)	University of Agricultural Sciences, Bangalore	Package of practice

11. Technology Option 3

Technology option	Details of Technology	Source	Justification
3	Transplanting of 40 days old seedling which are raised in polythene bags (BRG-1) (120 cm X 30 cm)	University of Agricultural Sciences, Dharwad	To achieve uniform stand, better establishment and higher yield

12. Technology Option 4

Technology option	Details of Technology	Source	Justification
4	Transplanting of 40 days old seedling which are raised in polythene bags (BRG-1) (120 cm X 45 cm)	University of Agricultural Sciences, Dharwad	To achieve uniform stand, better establishment and higher yield during late sowing

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### 13. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical Inputs for Technology Option 3 (Transplanting option 1)			
	Name	Qty.	Unit Cost (Rs. / kg)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	BRG-2 seeds	6 kg	45-00	270-00	Seeds (BRG-2)	5 kg	45-00	225-00
2	-	-	-	-	Polythene covers	1 kg	150-00	150-00
<b>Total</b>				<b>270-00</b>	<b>Total</b>			<b>375-00</b>
S. No	Critical Inputs for Technology Option 4 (Transplanting option 2)							
	Name	Qty.	Unit Cost (Rs. / kg)	Total Cost (Rs.)				
1	BRG-2 seeds	5 kg	45-00	225-00				
2	Polythene covers	1 kg	150-00	150-00				
<b>Total</b>				<b>375-00</b>	<b>Grand Total</b>			<b>1020-00</b>

### 14. Area for implementing

- i) Technology Option 1 (Farmer's Practice) : 0.25 acres
- ii) Technology Option 2 (Recommended Practice) : 0.25 acres
- iii) Technology option 3 (Transplanting of Redgram) : 0.25 acres

15. Grand Total Cost proposed per OFT : Rs. 1020-00

**9. Sesamum**

**1. Title of the On Farm Trial:** Intercropping of sesamum and redgram to achieve higher productivity and net income

**2. State whether it is Assessment / Refinement:** Assessment

**3. Agro-Ecological Zone :** Zone IV (Davanagere)

**4. Production System:** Rainfed

**5. Problem identified:** Monocropping, poor productivity, low income and poor soil fertility

**6. Number of farmers and area affected in the operational villages:** 40-50% of farmers, 30% area

**7. Thrust areas:** Profitable intercropping achieve higher productivity and net income

**8. Rationale for proposing the OFT :** Farmers are growing sesamum and redgram as sole crop hence they are getting lower net income. To achieve higher production through efficient intercropping system

**9. Technology Option 1 :**

Technology option	Details of Technology	Source	Justification
1	Unevenly prepared soil, higher seed rate & broadcasting Horsegram or ragi as second crop after harvest of sesamum	Farmers practice	Farmers use locally available seeds having low germination and viability results in lower yield

**10. Technology Option 2 :**

Technology option	Details of Technology	Source	Justification
2	Use of Navile-1/DS-1 variety Seed rate: 4 kg/ha, spacing: 30cmx 15cm, intercultivation at 30 & 45 DAS Sequence cropping: horse gram or ragi after the harvest of sesamum	UAS (B)	Higher production

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### 11. Technology Option 3 :

Technology option	Details of Technology	Source	Justification
3	-Intercropping of Sesamum and redgram( 8:2) -Simultaneous sowing( sesamum- 2.5kg/ha, Redgram 7 kg/ha) -Transplanting of Ragi(GPU-48) after harvest of sesamum	UAS Dharwad and Bangalore	Better utilization of season and space

### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options 3			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Sesamum –Navile 1	4 kg	125	500	Sesamum – Navile 1	2.5 kg	125	312.5
					Redgram	7kg	75kg	525.0
					Ragi GPU-28	4.5 kg	18 kg	81.0
<b>Total</b>				<b>500</b>				<b>918.5</b>

### 13. Area (ha.) for implementing : 3ha.

Technology Option 1 (Farmer's Practice) : 1 ha.

Technology Option 2 (Recommended Practice) : 1 ha.

Technology option 3 : 1 ha.

### 14. Grand Total Cost proposed for OFT : Rs. 2837/-

**10. Fodder**

1. Title of the On Farm Trial : Assessment of nutritive value and yield performance of Co-4 and DHN-6
2. Assessment / Refinement : Assessment
3. Agro-Ecological Zone : Zone-4
4. Production System : Irrigation
5. Problem identified: Nutrient deficiency and fodder scarcity
6. Number of farmers and area affected in the operational villages : 90%
7. Thrust areas : Nutrition
8. Rationale for proposing the OFT : The existing fodder crops are yielding less biomass hence, there is a problem in meeting the drymatter and nutrient requirements of dairy animals. Growing the above hybrid varieties yield more of drymatter with good quality nutrients.
9. Technology option-1:

<b>Technological Options</b>	<b>Details of Technology</b>	<b>Source of Technology</b>	<b>Justification</b>
1.	Growing cereal crops	Farmers practice	--

10. Technology option-2

<b>Technological Options</b>	<b>Details of Technology</b>	<b>Source of Technology</b>	<b>Justification</b>
2.	Growing Co-4 Napier fodder crop	TNAU, Coimbatore	<ul style="list-style-type: none"> <li>• Gives 100-120 tonns/acre</li> <li>• Highly succulent and rich in nutrients</li> </ul>

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### 11. Technology option-3

Technological Options	Details of Technology	Source of Technology	Justification
3.	Growing DHN-6 fodder crop	IGFRI, Dharwad	Contains less of oxalic acid No serration Highly succulent Yields 70-80 tonns/acre

### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology 3 Options			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Co-4 Napier cuttings	15000 cuttings	0.50/cutting	7500-00	DHN-6 cuttings	15000 cuttings	0.50/cuttings	7500-00
				<b>7500-00</b>				<b>7500-00</b>

13. Area (ha.) for implementing : 1 ha

14. Grand Total Cost proposed per OFT : Rs.15,000-00

**11. Dairy Animals (Continued for 2<sup>nd</sup> year)**

1. Title of the On Farm Trial : Supplementation of Ragi grain as a locally available energy resource for lactating cows
2. State whether it is Assessment / Refinement : Assessment
3. Agro-Ecological Zone : Rainfed agro climatic zone of Karnataka
4. Production System : Individual animal rearing system by farmer
5. Problem identified : Deficiency of energy in lactating cows
6. Number of farmers and area affected in the operational villages : 90% of the Dairy farmers affected
7. Thrust areas : Feeding lactating animals
8. Rationale for proposing the OFT: Dairying is one of the important activities in livestock rearing. Lactating cows are fed on single ingredients like rice bran, Wheat bran and groundnut cake mixed diet along with kitchen wastes. For these lactating animals energy is the most luminating factor followed by crude protein. Here an effort has been made to introduce locally available ragi grain as energy source.
9. Technology Option 1

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
1	Feeding wheat bran and Groundnut cake mix along with kitchen waste and dry roughages.	Farmers practice	--

10. Technology Option 2

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
2	Feeding balanced cattle feeds available in the market and roughages as per NRC standards	POP UAS. Bangalore	Feeding animals based on it body weight, production and gestation

11. Technology Option 3

<b>Technology option</b>	<b>Details of Technology</b>	<b>Source</b>	<b>Justification</b>
3	Feeding balanced cattle feed along with Azolla (2kg/day/animal) Supplementing 1 kg Ragi powder /day/animal along with 30-40gm ASMM	NIANP	<ul style="list-style-type: none"> <li>• Ragi grain – Rich in carbhohydrates (energy) and calcium is locally available for feeding</li> <li>• Azolla is a cheap source of crude protein</li> <li>• Easy to adopt</li> </ul>

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### 12. Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology Options			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Cattle feed	50 kg x 10	12.00	6000-00	Cattle feed	50 kg x 10	12-00	6000-00
2	Dewormer	5 tablet	60-00	300-00	Dewormer	5 tablet	60-00	300-00
3					Mineral mix	2 kg x 5	110-00	1100-00
4					Azolla unit	5	1500-00	7500-00
	<b>Total</b>				<b>Total</b>			
				<b>6300-00</b>				<b>14900-00</b>

### 13. Area (No. of plants) for implementing

- i) Technology Option 1 (Farmer's Practice) : 5 cows
- ii) Technology Option 2 (Recommended Practice) : 5 cows
- iii) Technology option 3 : 5 cows

14. Grand Total Cost proposed for OFT : Rs. 21,100-00

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**Table 4. Season-wise plan of Front Line Demonstrations (FLD) for 2010-11**

### A. Other than oil seeds pulses KHARIF

Thrust area	Crop / livestock / enterprises	Yield gap (q/ unit ha / number) or (number/unit)			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha) / Number	No. of farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha) or number/unit	Cost (Rs./ha) or Rs./unit		
Integrated Nutrient Management	Maize	39 q/ha	100 q/ha	55-60 q/ha	<ul style="list-style-type: none"> <li>• Private hybrids</li> <li>• Improper Nutrient Management</li> <li>• Low/less potash application (Basal 125kg-20:20:0)+ 25 kg urea</li> <li>• Basal 62.5 kg 20:20:0)+62.5 kg MOP _ 25 kg Urea (Top dressing)</li> <li>• No Micronutrient (ZnSO<sub>4</sub>)</li> <li>• No intercropping</li> </ul>	ICM in Maize  <ul style="list-style-type: none"> <li>• Hybrid Maize-Hema (NAH-1137)</li> <li>• Application of 40 kg K<sub>2</sub>O</li> <li>• Use of zinc sulphate 20 kg</li> <li>• Intercropping with Redgram (8:2)</li> </ul>	Seeds (NAH-1137) – 15 kg	750-00	05	12
							ZnSO <sub>4</sub> – 10 kg	450-00		
							Vermicompost – 3 q	1500-00		
							Intercropping with redgram – 3 kg	150-00		
							<b>2850-00</b>	<b>14,250-00</b>		

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- Higher productivity - Nutrient Management	Ragi	15 q/ha	15-20 q/ha	8-10 q/ha	<ul style="list-style-type: none"> <li>• Use of locally available seeds</li> <li>• No biofertilizers</li> <li>• Improper Nutrient Management (2 bag DAP)</li> <li>• No micronutrient</li> <li>• Sole cropping and improper sowing time</li> </ul>	ICM in HYV GPU- 28 Ragi variety - Suited for late sowing - RDF (50:40:25) NPK kg/ha) - Vermicompost 2q -Use of Azosprillum 400 g/ha - Intercropping with Horsegram (PHG-9) 6:2	GPU – 28 seeds – 12 kg  Potash (MOP) – 25 kg  Azospirillum – 400 g  Horsegram – 5 kg (PHG-9)	240-00  225-00  50-00  250-00	10 ha	25
								<b>765-00</b>	<b>7650-00</b>	

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Integrated Crop Management	Rice	25	40-46	22	<ul style="list-style-type: none"> <li>• No seed treatment with bio fertilizers</li> <li>• No/less zinc sulphate application</li> <li>• No/less organic manure dosage</li> <li>• Indiscriminate use of chemicals fertilizers and pesticides</li> <li>• Higher incidences of stem borer, BPH and blast</li> </ul>	Integrated Crop Management in Rice <ul style="list-style-type: none"> <li>• RDF-100:40:40 NPK kg/ha and 20 kg Zinc sulphate / ha.</li> <li>• Use of Azospirillum 400 g/ha seedling dip</li> <li>• Use of pheromonetrap 8 No./ha</li> </ul>	Azospirillum- 1 kg	40-00	5 ha	12
							Nitrogen- 250 kg	250-00		
							Phosphorus- 125 kg	150-00		
							Potash- 125 kg	125-00		
							Zinc Sulphate- 100 kg	700-00		
							Chloropyriphos- 2 lt.	500-00		
							Tricyclozole – 300 g	600-00		
							Bufrafezin – 0.75 lt.	300-00		
							Neem oil- 1 lt.	350-00		
Pheromone trap 8/ha	400-00									
							<b>3415-00</b>	<b>17075-00</b>		

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Integrated Nutrient Management	Tomato	25	30-40	20-25	<ul style="list-style-type: none"> <li>• Improper or less micronutrient application</li> <li>• Less organic manure application</li> <li>• Fruit cracking</li> </ul>	INM in Tomato (US-Agri01196) <ul style="list-style-type: none"> <li>• Vegetable special application (3 sprays-30,45 and 60 DAT))</li> <li>• Recommended fertilizer dosage and time</li> <li>• Fruit cracking /splitting management</li> </ul> (Continued FLD-2 <sup>nd</sup> year)	Nitrogen – 625 kg	625-00	5 ha	12				
							Phosphorus -625 kg	750-00			Potassium- 625 kg	625-00	Shampoo	20-00
												<b>3240-00</b>	<b>16200-00</b>	

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Integrated Pest Management	Coconut	50 nuts/plant	80 nuts/plant	20 nuts/plant	<ul style="list-style-type: none"> <li>• Incidence of Coconut Black headed caterpillar</li>   <li>(Continued FLD-3<sup>rd</sup> year)</li> </ul>	Integrated management of BHC in Coconut - Root feeding with Azadiractin (15 ml/ plant-3 times viz., Jan – Feb, Apr-May, Sept-Oct) - Release of parasite <i>Goniozus nephentidis</i> (50/plant, 4 times supplied by KSDH, Davanagere) - Mechanical control	<ul style="list-style-type: none"> <li>• Azadiractin L -1.5</li> </ul>	975-00	5 ha	10
								<b>975-00</b>	4885-00	

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Integrated disease management	Arecanut	3	10	2-4	<ul style="list-style-type: none"> <li>• Incidence of Hidimundige ( 5-25% reduced yield)</li> <li>• Improper nutrient management</li> </ul> <p style="text-align: center;">(Continued FLD-2<sup>nd</sup> year)</p>	<p>Integrated management of Hidimundige in Arecanut</p> <ul style="list-style-type: none"> <li>• For every two rows one row of 2.5 -3 feet drainage ( under irrigated condition)</li> <li>• Loosen the soil around the base of the plant (If hard layer)</li> <li>• Avoid flood irrigation. Adopt sprinkler/ drip irrigation</li> <li>• Avoid repeated cultivation</li> <li>• Application of recommended dose of fertilizer based on soil test result (100:40:140 g NPK/Plant/yr)</li> <li>• Use of trichoderma enriched vermicompost</li> <li>• CuSO<sub>4</sub> (100g) and lime (100g) for affected plants</li> <li>• Micronutrient application based on soil test result. Borax 20g/plant (affected plant)</li> <li>• Spray with blitox (3g/l) &amp; Dimethoate (2 ml/l)</li> </ul>	<ul style="list-style-type: none"> <li>• Urea-300kg</li> <li>• SSP-342kg</li> <li>• MOP-320kg</li> <li>• Borax -1.5 kg</li> <li>• Blitox -1.5 lt.</li> <li>• Dimethoate-1.5lt</li> <li>• Trichoderma-15 kg</li> <li>• CuSO<sub>4</sub> – 7 kg</li> <li>• Lime- 7 kg</li> </ul>	<p>1500-00</p> <p>1400-00</p> <p>1600-00</p> <p>150-00</p> <p>700-00</p> <p>450-00</p> <p>1500-00</p> <p>1400-00</p> <p>200-00</p>	02	10
								<b>9000-00</b>	<b>18,000-00</b>	

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Micronutrient Management	Banana	277.2 q/ha	385 q/ha	185 q/ha	<ul style="list-style-type: none"> <li>• Lesser bunch weight due to micronutrient deficiency</li> <li>• Poor nutrition management –apply only major nutrients @ 200 g complex fertilizers per plant</li> </ul>	<p>Foliar application of 'Banana special' for increased bunch weight in Banana</p> <ul style="list-style-type: none"> <li>• Application of RDF 2, 4 and 6 months</li> <li>• Foliar application of 'Banana Special' to increase bunch weight in Banana.</li> <li>• (6 sprays- 5,6,7,8 months, bunch emergence and one month after bunch emergence)</li> </ul>	Banana special -300 kg	140-00 kg	04	10
								<b>5250-00</b>	<b>21000-00</b>	

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Integrated disease management	Banana	250	400	175	<ul style="list-style-type: none"> <li>• Improper management of leaf spot disease(<i>Cercospora musae</i>)</li> <li>• Yield loss</li> </ul>	Integrated Management of sigatoka leaf spot in Banana <ul style="list-style-type: none"> <li>• Removal and burning of affected leaves</li> <li>• Follow of recommended spacing while planting</li> <li>• Removal of weeds around plant</li> <li>• Spray with hexaconazol (2 sprays)</li> </ul>	Hexaconazol-4lt	2000	4 ha	15
							<b>2000</b>	<b>8000-00</b>		

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Extensive fish aquaculture	Fish	15 q/ha	25 q/ha	12 q/ha	<ul style="list-style-type: none"> <li>• No scientific methods practiced in culturing fish</li> <li>• No rational approach to utilize available water bodies for aquaculture</li> <li>• Lower availability of seeds of suitable fish species at the right time of stocking</li> </ul>	<p>“Polyculture of carps and Pangassius sp in ponds”</p> <ul style="list-style-type: none"> <li>• Principles of pond aquaculture will be demonstrated</li> <li>• Procuring the seeds proposed fish species from UAS, Bangalore</li> <li>• Azolla, Hydrilla, Napier grass and Lucerne grass will be provided for feeding grass carp</li> <li>• Carps seeds will be procured from BRP, Lakkavalli ( Govt. fish seed production centre)</li> </ul>	<p>Fish seeds -4000 No.</p> <p>GOC – 25 kg</p> <p>RB – 25 kg</p> <p>Lime – 25 kg</p> <p>Vitamin mineral mix</p> <p>pH paper – 1 box</p> <p>pelletizer – 1 No.</p> <p>Azolla }                      Lucerna }                      Hydrilla }                      (Stock materials will be provided to farmers for multiplication)</p>	<p>4000-00</p> <p>625-00</p> <p>300-00</p> <p>100-00</p> <p>400-00</p> <p>30-00</p> <p>5000-00</p> <p>500-00</p>	4 ponds	04

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Extensive aquaculture	Fish	15 q/ha	25 q/ha	12 q/ha	<ul style="list-style-type: none"> <li>• No scientific methods practiced in culturing fish</li> <li>• No rational approach to utilize available water bodies for aquaculture</li> <li>• Lower availability of seeds of suitable fish species at the right time of stocking</li> </ul>	<p>“Feed based monoculture of Pangasius sp in farm ponds”</p> <ul style="list-style-type: none"> <li>• Principles of pond aquaculture will be demonstrated</li> <li>• Demonstrating the effective utilization of small water bodies like farm ponds for income generation through aquaculture</li> <li>• Procuring the seeds of Pangasius</li> <li>• fish species from UAS, Bangalore</li> </ul>	<p>Fish seeds – 2 kg</p> <p>GOC – 10 kg</p> <p>RB – 10 kg</p> <p>Vitamin mix – 2 kg</p> <p>Cast net – 1 No.</p> <p>Mesh gate – 2 No.</p> <p>Lime – 10 kg</p> <p>pH paper – 1 box</p>	<p>150-00</p> <p>250-00</p> <p>120-00</p> <p>200-00</p> <p>300-00</p> <p>200-00</p> <p>50-00</p> <p>30-00</p>	10 farm ponds	10

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RABI

### Other than Oil Seeds and Pulses

Thrust area	Crop / livestock / enterprises	Yield gap (q/ unit ha / number) or (number/unit)			Reasons for yield gap	Technology to be demonstrated	Critical inputs to be provided		Area (ha) / Number	No. of farmers
		District average yield	Potential yield	Farmers yield			Name & Quantity (kg/ha) or number/unit	Cost (Rs./ha) or Rs./unit		
Integrated Nutrient Management	Maize	39 q/ha	100 q/ha	55-60 q/ha	<ul style="list-style-type: none"> <li>• Private hybrids</li> <li>• Improper Nutrient Management</li> <li>• Low/less potash application (Basal 125kg-20:20:0)+ 25 kg urea</li> <li>• Basal 62.5 kg 20:20:0)+62.5 kg MOP _ 25 kg Urea (Top dressing)</li> <li>• No Micronutrient (ZnSO<sub>4</sub>)</li> <li>• No intercropping</li> </ul>	ICM in Maize  <ul style="list-style-type: none"> <li>• Hybrid Maize (NAH-1137)</li> <li>• Application of 40 kg potash</li> <li>• Use of zinc sulphate 20 kg</li> </ul>	Seeds (NAH-1137) – 15 kg	750-00	05	12
							ZnSO <sub>4</sub> – 10 kg	450-00		
								<b>2750-00</b>	<b>14,100-00</b>	

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Micronutrient Management	Mango	98.4	200	46.00	<ul style="list-style-type: none"> <li>• Poor nutrient management. Apply only complex fertilizers 250 g/plant at June-July</li> <li>• No use of Micronutrient fertilizers.</li> <li>• Reduced yield</li> </ul>	Micro Nutrient Management in Mango through Foliar application of "Mango Special"	Mango special-160 kg	140-00	4	10	
								<b>2800-00</b>	<b>11200-00</b>		
Integrated pest management	Mango	98.4	200	46.00	Higher incidence of leaf hopper and fruit fly	Integrated management of leaf hopper and fruit fly <ul style="list-style-type: none"> <li>• Before flowering and immediately after fruit set spray with Carbaryl (4 g/l)/ Lamda cyhalothrin (0.5ml/l)</li> <li>• Removal and destruction of affected fallen fruits</li> <li>• Avoid late harvesting</li> <li>• Use of Methyl eugenol traps (25/ha)</li> </ul>	Carbaryl-5 kg  Methyl eugenol traps-25 Nos.	1800-00	1250-00	02	06
								<b>3050-00</b>	<b>7100-00</b>		

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Poultry	-	-	-	• Availability of good quality chicks	• Demonstration of portable hatchery	Incubator of 500 eggs capacity  UPS	30,000-00  12000-00	<b>1</b>	01	01
							<b>42,000/-</b>	<b>42,000-00</b>	<b>42,000-00</b>	

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**TABLE 5 Plan For Training Programmes For Extension Functionaries During 2010-11**

Crop / Enterprise	Identified Thrust Area	Organization	Training Course Title	No. of Courses	Skill to be transferred
Areca nut	Integrated Nutrient Management	KSDH, Davanagere	Improved Production Technologies and Integrated Nutrient Management in Areca nut	02	Selection of quality seedlings Method of fertilizer application
Coconut	Integrated Crop Management	KSDH, Davanagere	Integrated Crop Management in Coconut	02	Selection of seed nuts Basin Method of fertilizer application Root Feeding of Chemicals Release of Bioagents
Vegetables	Nursery Management	KSDH, Davanagere	Nursery techniques in Horticulture Crops	02	Pore tray method of raising seedlings Plant protection measures in nursery
Oilseeds, Pulses, Cereals	Integrated Crop Management	KSDA, Davanagere	Recent advances and pest management aspects in pulses, oilseed and cereals	03	Bio control methods Release of predator parasitoids
Horticulture Crops	Integrated Pest Management	KSDH, Davanagere	IPM in important Horticulture crops	02	IPM measures ( Use of traps, release of bioagents)
Fish	Extensive fish aquaculture	Dept. of Agriculture, Horticulture, Watershed, Veterinary and Sericulture	Pond fish aquaculture	04	Pond preparation Pond management Feed management
Cotton	Integrated Crop Management	Dept. of Agriculture, Davanagere	- Role of micronutrients and growth regulators in cotton for enhancing the yield. - Use of water soluble fertilizers (KNO <sub>3</sub> ) in cotton	02	Spraying and correct dose of micronutrient and growth regulator Seed dibbling Identification of pest and disease
Cattle	Fodder scarcity	SHIMUL & Dept. of Animal Husbandary and Veterinary Science, Davanagere	Clean quality milk production Production and feeding methods of Azolla for milk animals	01 01	Milking methods Use of Saaf kit Azolla culture making Feeding methods

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**Table 6: Plan of vocational training programmes for Young Farmers (Rural Youth) during 2010-11**

<b>Crop / Enterprise</b>	<b>Identified Thrust Area</b>	<b>Training title*</b>	<b>No. of programmes and Duration (days)</b>	<b>Skill to be transferred</b>
Fruit Crops	Quality planting materials	<ul style="list-style-type: none"> <li>• Propagation Techniques in Horticulture Crops</li> </ul>	02 (15 days )	<ul style="list-style-type: none"> <li>• Grafting, Budding, air layering, cuttings preparation.</li> </ul>
Vegetables	Availability of quality seedling for planting	<ul style="list-style-type: none"> <li>• Nursery techniques and Management in Horticulture Crops</li> </ul>	02 (10 days)	<ul style="list-style-type: none"> <li>• Raised seed bed method</li> <li>• Pore tray nursery</li> </ul>
Bio agent production	Availability of quality bio agent production	<ul style="list-style-type: none"> <li>• Production techniques of different bioagents</li> </ul>	01 (10 days)	<ul style="list-style-type: none"> <li>• Method demonstration of bio agent production</li> </ul>
Fish	Extensive fish aquaculture	<ul style="list-style-type: none"> <li>• Fish culture in farm ponds</li> <li>• Pond management in fish culture</li> </ul>	01 (4 days) 02 (3 days)	<ul style="list-style-type: none"> <li>• Fish seed selection and stocking</li> <li>• Feed management</li> <li>• Pond management</li> </ul>
Composting and vermicomposting	Soil fertility management Recycling of crap waste	<ul style="list-style-type: none"> <li>• Methods of composting, vermicomposting through the agriculture waste</li> </ul>	01 (5 days)	<ul style="list-style-type: none"> <li>• Method of unit construction</li> <li>• Enrichment of organic manure with biofertilizers</li> <li>• Vermiculture</li> <li>• Vermi wash</li> </ul>
Cattle	Nutrition	<ul style="list-style-type: none"> <li>• Scientific dairy farming</li> </ul>	01 (5 days)	<ul style="list-style-type: none"> <li>• Feeding methods</li> <li>• Azolla production</li> <li>• Milking methods</li> </ul>
Poultry	Nutrition and breeding	<ul style="list-style-type: none"> <li>• Rearing of Giriraja birds in backyard</li> </ul>	01 (3 days)	<ul style="list-style-type: none"> <li>• Providing energy component</li> </ul>

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**Table 7: Plan of training programmes for farmers/farm women during 2010-11**

<b>Crop / Enterprise</b>	<b>Major problem</b>	<b>Identified Thrust Area</b>	<b>Training Course Title*</b>	<b>No. of Courses</b>	<b>Skill to be transferred</b>
Coconut	<ul style="list-style-type: none"> <li>• Coconut mites and BHC</li> <li>• Poor quality nuts</li> </ul>	Integrated Crop Management	<ul style="list-style-type: none"> <li>• Improved production technologies in Coconut production</li> <li>• Integrated Management of BHC in Coconut</li> </ul>	05	<ul style="list-style-type: none"> <li>• Selection of mother palms</li> <li>• Selection of seed nuts</li> <li>• Root feeding of chemical</li> <li>• Basin method of fertilizer application</li> <li>• Release of bio agent</li> </ul>
Areca nut	<ul style="list-style-type: none"> <li>• Hidimundige roga, anabe roga and inflorescence die back</li> </ul>	IDM	<ul style="list-style-type: none"> <li>• Integrated Management of important diseases in Areca nut</li> </ul>	03	<ul style="list-style-type: none"> <li>• Root feeding and soil drenching techniques</li> <li>• Method of spray solution preparation</li> </ul>
Betel Vine	<ul style="list-style-type: none"> <li>• Pest damage to standards</li> </ul>	Replacement with Gall midge resistances standards	<ul style="list-style-type: none"> <li>• Quality standards for Betel vine production</li> </ul>	02	<ul style="list-style-type: none"> <li>• Selection of standard cuttings</li> <li>• Method of planting</li> </ul>
Banana	<ul style="list-style-type: none"> <li>• Lower bunch weight due to poor nutrients</li> <li>• Leaf spot and wilt</li> </ul>	Integrated Nutrient Management IPDM	<ul style="list-style-type: none"> <li>• INM in Banana</li> <li>• Integrated management of leaf spot and wilt in Banana</li> </ul>	06	<ul style="list-style-type: none"> <li>• Use of Banana special nutrient spray</li> <li>• Matching in Banana</li> <li>• Sucker treatment</li> <li>• Method of spray solution preparation</li> </ul>
Fish	<ul style="list-style-type: none"> <li>• Unscientific fish culture practice</li> <li>• High cost of production for field crops</li> </ul>	Extensive fish aquaculture	<ul style="list-style-type: none"> <li>• Pond management in fish culture</li> </ul>	02	<ul style="list-style-type: none"> <li>• Pond management</li> <li>• Grass carp feeding</li> </ul>
Maize	<ul style="list-style-type: none"> <li>• Poor fertility management particularly potash</li> <li>• Stem borer and downy mildew</li> <li>• No intercropping</li> <li>• No micronutrient application</li> </ul>	Higher production can be done through integrated crop management practice	<ul style="list-style-type: none"> <li>• Selection of seed/hybrid and seed treatment</li> <li>• Maintaining of plant population to achieve maximum yield</li> <li>• Organic and inorganic fertilizer management</li> <li>• Value addition for maize</li> </ul>	05	<ul style="list-style-type: none"> <li>• Seed dibbling</li> <li>• Fertilizer mixing and spraying of water soluble fertilizers</li> <li>• Top dressing</li> <li>• Product preparation</li> </ul>

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Ragi	<ul style="list-style-type: none"> <li>• Use of locally available seeds</li> <li>• Improper nutrient management</li> <li>• No micronutrient</li> <li>• No intercrop</li> <li>• No seed treatment with biofertilizers</li> </ul>	Higher production for sustainable income	<ul style="list-style-type: none"> <li>• Role of micronutrient (FeSO<sub>4</sub>) in enhancing ragi yield</li> <li>• Application of fertilizers based on soil test results</li> <li>• Value addition for ragi</li> <li>• Seed treatment and weed management in ragi</li> <li>• Importance of ragi straw in dairy cattle</li> </ul>	05	<ul style="list-style-type: none"> <li>• Seed treatment with biofertilizers (Azospirillum)</li> <li>• Basal application of potash and top dressing with urea only</li> <li>• Enriched ragi malt and biscuits preparation</li> <li>• 2% urea treatment for ragi straw to increase the milk yield</li> </ul>
Cotton	<ul style="list-style-type: none"> <li>• Improper spacing and higher seed rate</li> <li>• Sucking pests</li> <li>• Leaf reddening, square drying</li> <li>• No micronutrient and KNO<sub>3</sub> sprays</li> <li>• No use of organic source of fertilizers</li> </ul>	Integrated crop management	<ul style="list-style-type: none"> <li>• Importance of traps crops in cotton for reducing pest load</li> <li>• Use of growth regulator (Planofix) and micronutrient to reduce flower and square drop</li> <li>• Use of vermicompost as a organic source of fertilizer</li> </ul>	05	<ul style="list-style-type: none"> <li>• Seed dibbling</li> <li>• Timely spraying of micronutrient and growth regulator</li> </ul>
Cattle	<ul style="list-style-type: none"> <li>• Lower body weight gain in calves</li> <li>• Lower production in dairy animals</li> <li>• Mastitis in dairy animals</li> </ul>	Nutrition and management practices	<ul style="list-style-type: none"> <li>• Calf rearing techniques</li> <li>• Balanced nutrition in dairy animals</li> <li>• Tips for mastitis control</li> </ul>	02 02 01	<ul style="list-style-type: none"> <li>• Preparation of milk replacers</li> <li>• Preparation of homemade seeds</li> <li>• Use of saaf kit</li> </ul>
Sheep and Goat	<ul style="list-style-type: none"> <li>• Lower body weight gain</li> </ul>	Nutrition and management practices	<ul style="list-style-type: none"> <li>• Feeding sheep and goat for higher body weight gain</li> </ul>	02	<ul style="list-style-type: none"> <li>• Mineral block use</li> </ul>
Poultry	<ul style="list-style-type: none"> <li>• Lower body weight gain</li> </ul>	Nutrition	<ul style="list-style-type: none"> <li>• Rearing Giriraja birds in backyard</li> </ul>	02	<ul style="list-style-type: none"> <li>• Grain feeding</li> </ul>
Drumstick	<ul style="list-style-type: none"> <li>• Poor yielding potential of existing local varieties</li> </ul>	Use of improved varieties	<ul style="list-style-type: none"> <li>• Production technology of 'KDM -1' variety of Drumstick</li> </ul>	02	<ul style="list-style-type: none"> <li>• Drumstick as inter cropping in Coconut gardens</li> <li>• Seed treatment with Bio fertilizers</li> </ul>

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Groundnut	<ul style="list-style-type: none"> <li>• Collar rot, Bud necrosis and leaf minor</li> </ul>	Integrated Crop Management	<ul style="list-style-type: none"> <li>• ICM in new released Groundnut variety KCG-2 (Chintamani-2)</li> </ul>	02	<ul style="list-style-type: none"> <li>• Seed treatment with bio – fertilizers</li> <li>• Method of gypsum application</li> </ul>
Sunflower	<ul style="list-style-type: none"> <li>• Closer spacing</li> <li>• BHC and Bud necrosis</li> </ul>	Integrated Crop Management	<ul style="list-style-type: none"> <li>• Improved cultivation methods and Integrated management of diseases in Sunflower (KBSH-53)</li> </ul>	02	<ul style="list-style-type: none"> <li>• Sowing method</li> <li>• Seed treatment with chemicals</li> <li>• Spray technique of Borax</li> </ul>
Redgram	<ul style="list-style-type: none"> <li>• Pod borer</li> <li>• Less use of bio fertilizer</li> <li>• Low yield</li> </ul>	Integrated Crop Management	<ul style="list-style-type: none"> <li>• Seed treatment with trichoderma / bio fertilizer</li> <li>• Role of pheromone traps in management of pod borer</li> <li>• Integrated pest management in Redgram</li> <li>•</li> </ul>	03	<ul style="list-style-type: none"> <li>• Seed treatment with bio fertilizers or chemicals</li> <li>• Installation of traps</li> <li>• Skills on identification of pests and diseases and their control measures.</li> </ul>
Bengalgram	<ul style="list-style-type: none"> <li>• Poor knowledge on seed treatment</li> <li>• Incidence of pod borer and wilt</li> <li>• Shriveled seeds</li> <li>• Low yield</li> </ul>	Integrated Crop Management	<ul style="list-style-type: none"> <li>• Seed treatment with trichoderma / bio fertilizer</li> <li>• Pod borer management through pheromone traps installation</li> <li>• Neem based product spraying usage in Bengalgram</li> </ul>	03	<ul style="list-style-type: none"> <li>• Seed treatment with bio fertilizers</li> <li>• Installation of traps</li> <li>• Skills on identification of pests an diseases and their control measures</li> </ul>

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**Table 8. Plan for sponsored training programme during 2010-11**

<b>Crop/ Enterprise</b>	<b>Identified Thrust Area</b>	<b>Organization</b>	<b>Training course title*</b>	<b>No. of Courses</b>	<b>Sponsored Agency</b>	<b>Skill to be transferred</b>
Dry land Horticulture	Rainfed Horticulture	KSDH, Davanagere	Dry land Horticulture	02	KSDH, Davanagere	<ul style="list-style-type: none"> <li>• Water conservation technologies</li> <li>• Mixed cropping system</li> <li>• Trickle irrigation system</li> </ul>
Arecanut	Organic farming	KSDH, Davanagere	Methods of organic farming in Arecanut	04	National Horticulture Mission Department of Horticulture	<ul style="list-style-type: none"> <li>• Vermicomposting</li> <li>• Use of Bio fertilizers</li> <li>• Bio pesticides</li> </ul>
Coconut and Beetle vine	Integrated Pest and Disease management	KSDH, Davanagere	IPDM in Coconut and Beetle vine	02	KSDH, Davanagere	<ul style="list-style-type: none"> <li>• Root feeding</li> <li>• Pest and disease diagnosis and identification</li> <li>• Bioagent release</li> <li>• Spraying techniques</li> </ul>
Vermicompost	- Alternate measures for inorganic fertilizers - Soil fertility management - Recycling of crop wastes	Dept. of Horticulture and Agriculture	Methods of vermicomposting	03	Department of Horticulture and Agriculture	<ul style="list-style-type: none"> <li>• Method of filling waste</li> <li>• Sieving</li> <li>• Vermiculture</li> <li>• Enrichment of compost with biofertilizers</li> </ul>
Rice	- Improper nutrient management - Poor water management - Indiscriminate use of pesticides	TATA Rallis India Ltd.	Integrated Crop Management in Rice	02	TATA Rallis India Ltd	<ul style="list-style-type: none"> <li>• Timely weeding</li> <li>• Timely application of fertilizer</li> <li>• Use of SSP</li> </ul>
Cattle	- Quality clean milk production	SHIMUL	Clean milk production in dairy animals	20	SHIMUL (RSVY Scheme)	<ul style="list-style-type: none"> <li>• Use of saaf kit</li> <li>• Use of Area specific mineral mixture</li> <li>• Milking methods</li> </ul>

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**Table 9: Details of Extension programmes planned for 2010-11**

Month	Block & village	Extension programme*	Its relation to KVK activities (Tables 2 to 6)**	Expected category of participants	Remarks
1	2	3	4	5	6
April	Kandagal Halebisleri Belavanuru	<ul style="list-style-type: none"> <li>• Group meetings</li> <li>• Soil sampling techniques</li> <li>• Composting</li> </ul>	FLD	Farmers/Farmwomen Rural Youth	--
May	Shamanuru Naganuru Hosachikkanahalli Avaragere	<ul style="list-style-type: none"> <li>• Agriculture camps</li> <li>• PRA farmer selection</li> <li>• Training programmes</li> <li>• Animal health camp</li> </ul>	FLD/OFT	Farmers/Farmwomen	--
June	Kandagal Halebisleri Belavanuru Shamanuru Naganuru Hosachikkanahalli Avaragere	<ul style="list-style-type: none"> <li>• Training programmes</li> <li>• Sowing</li> <li>• Method demonstration</li> <li>• Fish stocking</li> <li>• Field visit</li> <li>• World Environment Day</li> <li>• Radio and T.V. Programmes</li> </ul>	FLD/OFT	Farmers/Farmwomen	--
July	Harosagara Basavapatna Siddanuru Elebettur	<ul style="list-style-type: none"> <li>• Group meetings</li> <li>• Farmers selection</li> <li>• Fish stocking</li> <li>• National fish famers day</li> </ul>	Vocational training programmes On occasion of National day celebration	Rural Youth	--
August	Taraganahalli Harosagara Basavapatna Siddanuru Elebettur	<ul style="list-style-type: none"> <li>• Trainings</li> <li>• Method Demonstration</li> <li>• Field visits</li> <li>• Diagnostic field visits</li> <li>• Radio and T.V. programme</li> <li>• World Kitchen garden day</li> </ul>	FLD/OFT	Farmers/Farmwomen	--

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September	Taraganahalli Siddanuru Halebisleri Belavanuru	<ul style="list-style-type: none"> <li>• Field visits</li> <li>• Diagnostic field visits</li> <li>• Trainings</li> <li>• Method demonstration</li> <li>• Field day</li> <li>• Agriculture technology week</li> <li>• Farmers seminar on Azolla cultivation</li> <li>• Exposure visits</li> </ul>	FLD/OFT	Farmers/Farmwomen	--
October	Taraganahalli Siddanuru Halebisleri Kandagal Harosagara Basavapatna	<ul style="list-style-type: none"> <li>• Identification and selection of farmers of Bengalgram</li> <li>• Method demonstrations</li> <li>• Training`</li> <li>• Workshop</li> <li>• World Food day celebration</li> <li>• Field days</li> <li>• Kissan Mela</li> </ul>	FLD/OFT	Small Farmers/ Marginal Farmers	-
November	Yeragattihalli Nithigere Nuggehalli	<ul style="list-style-type: none"> <li>• Field visits</li> <li>• Trainings</li> <li>• Seminar</li> <li>• Field day</li> <li>• Exhibition</li> </ul>	FLD/OFT	Small Farmers/ Marginal Farmers	-
December	Yeragattihalli Nithigere Nuggehalli Kandagal Harosagara	<ul style="list-style-type: none"> <li>• Field visit</li> <li>• Women in agriculture day</li> <li>• Kissan summan diwas</li> </ul>	FLD/OFT, Training	Small Farmers/ Marginal Farmers	-
January	Nuggehalli Yeragattihalli Nithigere	<ul style="list-style-type: none"> <li>• Field day- FLD- Bengalgram</li> <li>• Training</li> <li>• AIDS awareness seminar</li> <li>• Vocational training</li> </ul>	FLD	Small Farmers/ Marginal Farmers	-

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February	Belludi Harosagara	<ul style="list-style-type: none"> <li>• Exposure visit</li> </ul>	-	Small Farmers/ Marginal Farmers	-
March	Agasanakatte Kurki Halebisleri	<ul style="list-style-type: none"> <li>• Soil health camp</li> <li>• Ex trainees sammelan</li> <li>• SHG convener meeting</li> </ul>	-	Farmers/Farmwomen	-

**Table 10: Details of print & electronic media coverage planned for 2010-11**

Sl. No.	Nature of literature/publications and no. of copies	Proposed title of the publication
01	Folders : 500 Nos : 500 Nos : 1000 Nos : 1000 Nos : 1000 Nos : 1000 Nos : 1000 Nos : 1000 Nos : 500 Nos : 500 Nos : 500 Nos : 1000 Nos : 1000 Nos : 1000 Nos : 1000 Nos : 1000 Nos : 500 Nos : 500 Nos : 500 Nos	<ul style="list-style-type: none"> <li>• Raising of quality seedlings in Arecanut</li> <li>• Use of TNAU Coconut nutritional tonic to tackle micronutrient deficiency</li> <li>• Dry land Horticulture</li> <li>• Improved packages to increase Tomato yield</li> <li>• Integrated nutrient management practices in Arecanut</li> <li>• Production of organic inputs using local waste materials</li> <li>• Soil sampling procedure</li> <li>• Uses of trichoderma</li> <li>• Major Groundnut diseases and their management</li> <li>• Beneficial aquaculture in farm ponds</li> <li>• Farmers Field School</li> <li>• ICM in Maize</li> <li>• ICM in Cotton</li> <li>• Vermicomposting</li> <li>• ICM in Ragi</li> <li>• Integrated Farming System (IFS)</li> <li>• Calf rearing methods</li> <li>• Enrichment of low quality feeding stuffs</li> <li>• Preparation of balanced cattle feed</li> </ul>
02	Information Bulletin : 1000 Nos : 500 Nos	<ul style="list-style-type: none"> <li>• Production technology of plantation Crops</li> <li>• Integrated pest and diseases management in Arecanut</li> </ul>
03	Books : 1000 Nos : 500 Nos	<ul style="list-style-type: none"> <li>• Recent trends in production technology of Tomato</li> <li>• Improved packages for higher Maize yield</li> </ul>
04	Pamphlet : 500 Nos	<ul style="list-style-type: none"> <li>• Larvivorous fishes for biological control of mosquitoes</li> </ul>

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05	Paper articles (Daily news paper)	<ul style="list-style-type: none"> <li>• Role of micronutrients in crops</li> <li>• Role of potash in crops</li> <li>• Role of foliar nutrition in agriculture</li> </ul>
<b>Sl. No.</b>	<b>Nature of media coverage</b>	<b>Proposed title of the programme to be telecasted/ broadcast</b>
01	T.V. Programme	<ul style="list-style-type: none"> <li>• Integrated nutrient management in Banana</li> <li>• Nursery techniques in Horticulture crops</li> <li>• Management of button shedding in Arecanut</li> <li>• Rhizome treatment, sucker selection and disease management in Banana</li> <li>• Pod borer management in Bengal gram</li> <li>• Integration of aquaculture in small farm holdings for enhanced profits.</li> <li>• Production technology in Maize</li> <li>• Recent technologies in Ragi production</li> <li>• Integrated Farming System (IFS)</li> <li>• Balanced nutrition in cattle</li> </ul>
02	Radio Programme	<ul style="list-style-type: none"> <li>• Kitchen gardening</li> <li>• Nursery entrepreneurship</li> <li>• Role of fruits and vegetables in human diet</li> <li>• Bio control of rice pests</li> <li>• Fish culture in small ponds</li> <li>• Farmers Field School</li> <li>• Bt Cotton production technology</li> <li>• Recent advances in Maize production</li> <li>• Foot and mouth disease in livestock</li> </ul>

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**Table 11: Collaborative activities planned for 2010-11**

Thrust area	Collaborative Organizations	Nature of activities*	No. of Activities
Bio diversity conservation	KRVP, Bangalore	Campaign	02
Medicinal and Aromatic Crops	CIMAP, Lucknow FRLHT, Bangalore	Workshop	02
Value addition in Coconut	Coconut Development Board, Cochin	Awareness Campaign	01
Integrated nutrient management in Rice	Mangalore Chemicals and Fertilizer Limited, Bangalore	Workshop	01
Integrated pest and disease management in Rice	Rallis India private limited	Seminar Training Demonstrations	02
Mites and BHC management in Coconut	KSDH, Davanagere	Demonstration Seminar	02
Extensive fish aquaculture	Dept. of Fisheries, UAS(B)	Trainings & Workshop	02
Fodder scarcity	ATMA	Workshop	01
Clean milk production	SHIMUL	Seminar	01
Technology spread	NABARD, Davanagere	Farmers club	05

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<b>Table 12 : Financial Status of Revolving Fund and Plan for its Utilization</b>						
Particulars of Items	Opening Balance as on 1.4.09	Expenditure incurred during 2009-10	Receipts during 2009-10	Closing Balance as on 31.03.10	Proposed Expenditure during 2010-11	Proposed Receipts during 2010-11
	<b>65014.44</b>			<b>68460.48</b>		
<b>Agricultural Extension Activities :</b>		<b>304231.64</b>	<b>325779.00</b>		<b>355000</b>	<b>400000</b>
Krishi Mela		14523.00			15000	
Publication		30500.00	12377.00		32000	40000
Technology Week Celebration		43264.84	55000.00		50000	60000
Training Tools/Equip.s Utilization Charges			1250.00			5000
Workshop / Seminars		41420.00	40000.00		50000	55000
Farmers Hostel - Boarding		95683.50	198952.00		125000	220000
Farmers Hostel - Lodging			18200.00		3000	20000
Farmers Hostel - Maintenance		78840.30			80000	
<b>Agronomy Wing Activities :</b>		<b>17336.00</b>	<b>90345.50</b>		<b>25000</b>	<b>110000</b>
Kadalivana Cultivation Activities		616.00			5000	10000
Vermicompost Demon.Unit		16720.00	90345.50		20000	100000
<b>Animal Science Unit :</b>		<b>123783.00</b>	<b>88798.80</b>		<b>170500</b>	<b>242000</b>
Animal Rearing Unit		110267.00	81368.80		150000	200000
Azolla Demon. Unit		3000.00	410.00		500	2000
Fodder Demon. Unit		10516.00	7020.00		20000	40000
<b>Farm Operation Activities :</b>		<b>303264.60</b>	<b>220623.00</b>		<b>295000</b>	<b>377000</b>
Agricultural Implements Mtc.		5130.00			8000	
FLD-Demon. Plots		26337.00			0	0
Kadalivana Crops Cultivation		214040.60	156224.00		220000	250000
Kadalivana Farm Bunds Utilization		3734.00			4000	10000
Kadalivana Sugar Cane Cultivation		2400.00	20151.00		3000	15000

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Taralabalu KVK, Davanagere

Particulars of Items	Opening Balance as on 1.4.09	Expenditure incurred during 2009-10	Receipts during 2009-10	Closing Balance as on 31.03.10	Proposed Expenditure during 2010-11	Proposed Receipts during 2010-11
Kadalivana Vegetable Production		1800.00	16543.00		5000	20000
Kesarivana Crop Cultivation		34712.00	26200.00		35000	40000
Seed Production Activities		15111.00			20000	40000
Tamarind/Jamun Fruit Orchard			1505.00			2000
<b>Fishery Unit Activities :</b>		<b>32459.00</b>	<b>24755.00</b>		<b>7000.00</b>	<b>10000.00</b>
Fish-Aquaculture		25360.00	24755.00		5000	10000
Kesarivana Agro Forestry Activities		7099.00			2000	
<b>Home Science Wing Activities :</b>		<b>790.00</b>	<b>80.00</b>		<b>3000</b>	<b>7000</b>
Apiary (Honey Bee) Unit		690.00			1000	2000
Home Science Demon. Activities		100.00	80.00		2000	5000
<b>Horticulture Unit :</b>		<b>164327.42</b>	<b>52450.00</b>		<b>61000</b>	<b>97000</b>
Coconut Nursery Activities		730.00			2000	2500
Floriculture Unit			361.00		1000	2000
Horticulture Demon. Activities		114450.60	31230.00		25000	35000
Horticulture Nursery Activities		6815.00	4555.00		20000	25000
Kadalivana Fruit Orchard			200.00		0	0
Kadalivana Medicinal Garden		290.00			500	
Kesarivana Arecanut Garden		14972.32	4414.00		5000	5000
Kesarivana Coconut Garden		565.00			500	
Kesarivana Fruit Orchard		13090.00	160.00		2000	2500
Kesarivana Mango Orchard		13414.50	11530.00		5000	25000
<b>Plant Protection Wing :</b>		<b>17126.75</b>	<b>5587.50</b>		<b>3000</b>	<b>7500</b>
Trichoderma Production Activities		17126.75	5587.50		3000	7500
<b>Soil Science Wing :</b>		<b>6404.56</b>	<b>12795.00</b>		<b>11000</b>	<b>23250</b>
Kesarivana Vermicompost Unit		2540.00			5000	10000

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Soil Science Unit Activities		2697.56	10435.00			
Soil Testing Laboratory		1167.00	2360.00		6000	13250
Advances To :		<b>13740.79</b>	<b>146647.00</b>		<b>250000</b>	<b>230000</b>
Individuals for Activities		13740.79			200000	180000
Institutions for Activities			146647.00		50000	50000
Xerox Unit			1100.00			2000
Interest on SB A/c Balance			505.00			1000
Other Receipts		356.00	37800.00		500	40000
Refund of ICAR Grants		20000.00			20000	
<b>Total</b>	<b>65014.44</b>	<b>1003819.76</b>	<b>1007265.80</b>	<b>68460.48</b>	<b>2381500</b>	<b>3050500</b>

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**Table 13: Physical status of revolving fund and plan for its utilization**

Opening stock position of materials* as on 01.04.2009	Opening stock position of materials* as on 01.04.2009	Quantity produced during 2009-10	Quantity sold during 2009-10	Closing stock position as on 31.03.2010	Expected production during 2010-11	Expected number of beneficiaries
Ragi	Nil	130 kg	130 kg	Nil	08 q	240 No.
Navane	Nil	50 kg	50 kg	Nil		
Paddy	Nil	6000 kg	6000 kg	Nil	40 q	160 No.
Redgram	Nil	124 kg	124 kg	Nil	10 q	200 No.
Coupea	Nil			Nil	08 q	80 No.
Beans	Nil	20 kg	20 kg			
Bitter gourd	Nil	14 kg	14 kg			
Bottle gourd	Nil	47 kg	47 kg			
Brinjal	Nil	411 kg	411 kg			
Chilli	Nil	193 kg	193 kg			
Drumstick	Nil	25 kg	25 kg			
Tomato	Nil	3000 kg	3000 kg			
<b>Cattle</b>						
I. Exotic						
a) Cross bred cows - 0	3	--	3	7200 liter milk	20 No.s	
II. Indigenous	1	2	1	--	--	
a) Cow - 2	1	3	1	--	--	
b) Heifer - 3	1	1	1	--	--	
c) Bull - 1	--	--	2	--	--	
d) Bullock - 2	2	1	1	--	--	
e) Calf - 0						
Azolla culture	400 kg	400 kg	--	400 kg	50	
Stylosanthes	10 kg	10 kg	--	20 kg	20	
Co-3 fodder -10 ton	50 tonnes	50000 cuttings	10 ton	60 ton	15	

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**Table 14. Plan for utilization of Revolving Fund (2010-11)**

Amount to be invested (Rs.)	Purpose	Expected production	Approximate value of the produce
9000-00	Seed production of Coupea	8 q	16000-00
18000-00	Seed production of Redgram	8 q	24000-00
8000-00	Seed production of Ragi	10 q	10000-00
20000-00	Seed production of Paddy	35 q	35000-00
2000-00	Production of Ornamental fishes	5000 No.	4000-00
20000-00	Vermicompost production and vermiculture	5 tons	25000-00
		50 kg Earthworms	10000-00
3000-00	Trichoderma production	100 kg	7500-00
12000-00	Dairy Unit expansion (6 cow unit)	20000 liter milk	300000-00
		30 tractor loads of FYM	45000-00

**Table 15: Status of KVK farm and Demonstration units**

No. of blocks	Area	Source of irrigation	Season	Crop/enterprise/demonstration units	Size (no. of units/area)	Expected output	
						Quantity	Value
	2.0 acres	Bore well	-	Arecanut	03	-	
	2.0 acres	Bore well	-	Sapota	01	-	
	3.0 acres	Bore well	-	Mango	01	1400 kg	70000-00
	0.5 acres	Bore well	-	Tamarind	01	200 kg	10000-00
	0.1 acres	Bore well	-	Medicinal plants			
1	2 acre	Rainfed	Kharif/Rabi	Ragi	2 acre	10 q	10000-00
2	2 acre	Rainfed	Kharif/Rabi	Cowpea	2 acre	08 q	16000-00
3	2 acre	Rainfed	Kharif/Rabi	Maize	2 acre	40 q	36000-00
12	2 acre	Rainfed	Kharif/Rabi	Redgram	2 acre	08 q	24000-00
4,7,8	2 acre	Bore well	Kharif/Summer	Paddy	2 acre	35 q	35000-00
-	-	-	April 2010 to March 2011	Trichoderma Production Unit	-	100 kg	7500-00
01	0.1 g	Bore well	Annual	Vermicomposting unit	8 No. 2 <sup>1</sup> x 2 <sup>1</sup> x 4 <sup>1</sup> H x L x W	5 ton 50 kg	25000-00 10000-00

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01	1.0 acres	Bore well	Annual	Fodder	3 varieties (Co-3, Guinea, NB-18)	50 ton	25000-00
01	15 <sup>1</sup> x 4 <sup>1</sup> x 1 <sup>1</sup>	Bore well	Annual	Azolla pond	1	400 kg	800-00
01	50 <sup>1</sup> x 30 <sup>1</sup>	Bore well	Annual	Dairy demo unit	3 cow unit	7200 l milk 12 tractor load FYM	100000-00  12000-00

**16 . Are there any activities planned for production and supply (Either buy back or directly farmer to farmer) of seeds/ planting material/Bio-agents etc. In villages (other than KVK farm) so that public private partnership is utilized. Please give details in the following format**

Sl. No	Seeds/Planting material /Bio-agent	Name of the public-private partnership arranged	Quantity of output expected (Qtl)
01	Vegetable seedlings Tomato Brinjal, Chilli	Sri Done Siddeshwara Vegetable Growers Association, Siddanur	1,00,000 seedlings each in Tomato, Brinjal, Chilli
2	Co-3	Farm production	60 tonnes
3	DHN-6	In Collaboration with IGFRI	40 tonnes
4	Stylosanthes	Farm production	2-3 q
5	NB-18	Farm production	5 tonnes
6	Ridge gourd, Bitter gourd	Optima agri seeds Pvt. Ltd.	--

**17. What is the extent of cultivable wasteland in your district? Are there any specific activities planned to be implemented in these wastelands by the KVK during 2010-11. Please give details.**

8525 ha

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18. National Horticulture Mission (NHM) is being implemented through out the country. You are requested plan for implementing some of the activities envisaged in NHM in your district in collaboration with district head of department of horticulture. Please give details of any such plans for 2010-11

Sl. No	Particulars	Activity	Amount (Rs.)
01	Organic Horticulture	Training, Popularization and exposure visit	25000-00
02	Value addition and Grading Tomato using plastic creates	Demonstration	10000-00
03	Shade net	Production of quality seedling	5000-00

19. Whether ATMA is functioning in your district? YES

If yes, what type of coordination and collaboration does your KVK is proposed to have during 2010-11?

Training

Crop	No. of programmes
Maize	2
Cotton	3
Ragi	3
Paddy	5

Workshop/Seminars

Name of Topic	
	Water and weed management in Agriculture and Horticulture crops
	Bore well recharging

If Yes, whether Strategic Research and Extension Planning (SREP) has been prepared?

Yes

## Action plan – 2010-11

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### 20 . Type of scientist-Farmer linkages proposed by your KVK for 2010-11:

The following are the various groups formed by our KVK with farmers from various villages of Davanagere district. These groups are formed to enhance entrepreneurship among rural folks with end to end process mechanism for completeness of service in mind.

#### Common Interest Groups (CIGs)

- i) Sri Umamaheshwara Raitha Swa- sahaya sangha , Halebisleri: Vermicompost producers group, Vermicelli producers group
- ii) Sri Done Siddeshwara Tarakari Belegarara sangha, Siddanuru: Vegetables seedlings producers group
- iii) Siddanuru baale belegarara sangha, Siddanuru: Precision farming farmers group in Banana, Vermicompost producers group
- iv) Sri Vinayaka raitha Shakti (Savayava) Jaivika sangha, Hosa Belavanuru: Vermicompost producers group
- v) Sri Taralabalu raitha swa- sahaya sangha, Avaragere, Poultry farmers group
- vi) Vishvabandhu raitha swa- sahaya sangha, Avaragere: Sheep farmers group
- vii) Sri Veeranjneya raitha swa- sahaya sangha, Hosachikkanahalli: Dairy and Poultry farmers group
- viii) Sri Siddivinayaka raitha swa- sahaya sangha, Hosachikkanahalli: Areca leaves plate making group
- ix) Sri Eshwara raitha swa -sahaya sangha, Avaragere: Sheep rearing farmers group
- x) Association of Fish culturists of Davanagere, Davanagere

### 21. Activities of soil, water and plant testing laboratory

Full pledged soil and water testing laboratory is yet to be established

Year of establishment	Expenditure is Rs.(lakhs)	No. of soil samples planned To be analyzed and reported	No. of water samples planned To be analyzed and reported	No. of Plant Samples planned To be analyzed and reported	Remarks if any
-	-	100	50	-	Using mobile soil testing kit method

## Action plan – 2010-11

Taralabalu KVK, Davanagere

22. Details of Budget Utilization (2009-10)				
Sl. No.	Name of the Head	Sanction	Release	Expenditure
1	2	3	4	8
	<b>Opening Balance as on 1.4.2009</b>		75066.42	
<b>A] RECURRING ITEMS :</b>				
1	Pay & Allowances	3700000	3624934	3700000.00
2	Travelling Allowances	100000	100000	99810.62
3	Contingencies	900000	900000	809025.48
	[A] Office Contingency	210000	210000	209997.11
	[B] POL, Hiring, Maintenance of Vehicles	175000	175000	174996.26
	[C] Stipend / Meals for Trainees	105000	105000	104148.00
	[D] Teaching Materials for Training	65000	65000	64999.30
	[E] FLD (Other than Oilseeds & Pulses)	220000	220000	151641.93
	[F] OFT - On Farm Testing	50000	50000	28747.00
	[G] Training to Extension Personnel	10000	10000	9998.00
	[H] Maintenance of Buildings			
	[ I ] Est. of Soil, Plant & Water Testing Laboratory			
	[J] Maintenance of Library	10000	10000	9739.00
	[K] Extension Activities	30000	30000	29802.88
	[L] Farmers Field School	25000	25000	24956.00
	<b>Total - A</b>	<b>4700000</b>	<b>4700000.42</b>	<b>4608836.10</b>
<b>B] NON-RECURRING ITEMS :</b>				
1	Works :	0		
2	Equipments (Power Tiller+Cultivator), SWTL & Furniture	170000	170000	169900.00
3	Vehicles			
4	Library (Books & Journals)			
	<b>Total - B</b>	<b>170000</b>	<b>170000</b>	<b>169900.00</b>
<b>C] REVOLVING FUND :</b>				
		0	0	0.00
	<b>GRAND TOTAL (A + B + C)</b>	<b>4870000</b>	<b>4870000.42</b>	<b>4778736.10</b>
	<b>Closing Balance as on 31.3.2010</b>		<b>91264.32</b>	

## Action plan – 2010-11

Taralabalu KVK, Davanagere

<b>23. Details of Budget Estimate (2010-11) :</b>				
Sl. No.	Name of the Head	Amount	TOTAL BUDGET ESTIMATE FOR 2010-11	Remarks
1	2	3	4	
<b>A] RECURRING ITEMS :</b>				
1	Pay & Allowances	4365257	4365257	
2	Travelling Allowances	250000	250000	
3	Contingencies	<i>1420000</i>	<i>1420000</i>	
	[01] Office Contingency	300000	300000	
	[02] POL, Hiring, Maintenance of Vehicles	250000	250000	
	[03] Stipend / Meals for Trainees	150000	150000	
	[04] Teaching Materials for Training	150000	150000	
	[05] FLD (Other than Oilseeds & Pulses)	300000	300000	
	[06] OFT - On Farm Testing	150000	150000	
	[07] Training to Extension Personnel	50000	50000	
	[08] Maintenance of Library	20000	20000	
	[09] Farmers Field School	50000	50000	
	<b>Total - A</b>		<b>6035257</b>	

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Sl. No.	Name of the Head	Amount	TOTAL BUDGET ESTIMATE FOR 2010-11	Remarks
<b>B] NON-RECURRING ITEMS :</b>				
1	Works :		4507641	
	[01] Fencing-Cum-Boundary Wall	1114915		Sent Proposal vide letter # TKVK-OS-170/404 dt. 05.01.10
	[02] Construction of Road at Kadalivana	302726		Sent Proposal vide letter # TKVK-OS-170/405 dt. 05.01.10
	[03] Sinking of Bore Wells, 2 No.s	300000		Sent Proposal vide letter # TKVK-OS-170/410 dt. 15.01.10
	[04] Irrigation Pipeline Net Work	100000		Sent Proposal vide letter # TKVK-OS-170/412 dt. 15.01.10
	[05] Land Levelling & Lowering	100000		Sent Proposal vide letter # TKVK-OS-170/411 dt. 15.01.10
	[06] Threshing & Drying Yard	200000		Sent Proposal vide letter # TKVK-OS-170/413 dt. 05.01.10
	[07] Vehicle Implements Shed	300000		Separate Proposal will follow with in a month
	[08] Storage Godown	300000		Separate Proposal will follow with in a month
	[09] Over Head Water Tank	1790000		Sent Proposal vide letter # TKVK-OS-101/435 dt. 27.01.09
2	Vehicle - 5 Two Wheelers + 1 Active Honda	300000	300000	
3	Farm Development - Integrated Farming System	200000	200000	Separate Proposal will follow with in a month
4	Agricultural Equipments	345000	345000	
5	Office Equipments	710000	710000	
6	A.V.Aids	612500	612500	
7	Fixture / Fittings	838320	838320	
8	Library Establishment	100000	100000	
9	Establishment of Demon. Units :		3560000	
	[01] Dairy Animals	210000	210000	Sent Proposal vide letter # TKVK-OS-101/38 dt. 12.05.09
	[02] Portable Fish Hatchary	250000	250000	Separate Proposal will follow with in a month
	[03] Soil and Water Testing Laboratory	1600000	1600000	
	[04] Plant Diagnostic Centre	1500000	1500000	
	<b>Total - B</b>		<b>11173461</b>	
	<b>GRAND TOTAL (A + B)</b>		<b>17208718</b>	

## Action plan – 2010-11

Taralabalu KVK, Davanagere

<b>TARALABALU KRISHI VIGYAN KENDRA</b>					
<b>Kadalivana, LIC Colony Layout, BIET Road, DAVANAGERE-577004</b>					
Sl. No.	Particulars	Justification, if required	No.s	Rate	Amount
<b>1</b>	<b>WORKS :</b>				
	[01] Fencing-Cum-Boundary Wall	<i>Sent Proposal vide letter # TKVK-OS-170/404 dt. 05.01.10</i>			1114915
	[02] Construction of Road at Kadalivana	<i>Sent Proposal vide letter # TKVK-OS-170/405 dt. 05.01.10</i>			302726
	[03] Sinking of Bore Wells, 2 No.s	<i>Sent Proposal vide letter # TKVK-OS-170/410 dt. 15.01.10</i>			300000
	[04] Irrigation Pipeline Net Work	<i>Sent Proposal vide letter # TKVK-OS-170/412 dt. 15.01.10</i>			100000
	[05] Land Levelling & Lowering	<i>Sent Proposal vide letter # TKVK-OS-170/411 dt. 15.01.10</i>			100000
	[06] Threshing & Drying Yard	<i>Sent Proposal vide letter # TKVK-OS-170/413 dt. 05.01.10</i>			200000
	[07] Vehicle Implements Shed	<i>Separate Proposal will follow with in a month</i>			300000
	[08] Storage Godown	<i>Separate Proposal will follow with in a month</i>			300000
	[09] Over Head Water Tank	<i>Sent Proposal vide letter # TKVK-OS-101/435 dt. 27.01.09</i>			1790000
	<b>Total</b>				<b>4507641</b>
<b>2</b>	<b>VEHICLES :</b>				
	[01] Motor Cycles		5	42000	210000
	[02] Active Honda for Ladies Staff		2	45000	90000
	<b>Total</b>				<b>300000</b>
<b>3</b>	<b>FARM DEVELOPMENT :</b>				
	[01] Nala Modification at Kesarivana and Borewell recharge demo Unit	<i>Separate Proposal will follow with in a month</i>	1	200000	200000
	<b>Total</b>				<b>200000</b>

## Action plan – 2010-11

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Sl. No.	Particulars	Justification, if required	No.s	Rate	Amount
<b>4</b>	<b>AGRICULTURAL EQUIPMENTS :</b>				
	Equipments :				
	[01] Bund Farmer		1	15000	15000
	[02] MB Plough		1	20000	20000
	[03] Leveller		1	20000	20000
	[04] Seed Drill		1	25000	25000
	[05] Rotavator		1	15000	15000
	[06] Power Tiller		1	150000	150000
	<b>Total</b>				<b>245000</b>
<b>5</b>	<b>OFFICE EQUIPMENTS :</b>				
	[01] Branded Computers :				
	Pentium Core-2 Duo Processor+TFT Monitor+Table+Chairs	To increase the efficiency of input & out put of data, it is proposed to provide one computer to each scientist and to Accounts Wing	1	75000	75000
	On Line UPS with 4 External Batteries		1 Set	175000	175000
	Heavy Duty LaserJet Printer		1	15000	15000
	[02] 5 GB Pen Drives for Data Back-up & for Mobility		8	8000	64000
	[03] Photo Quality Colour Printer		1	10000	10000
	[04] Weighing Machine (Electronic) 10 Kgs Capacity	To know the weight of the Packet to determine Postal Stamps to be affixed	1	6000	6000
	[05] Generator		1	100000	100000
	[06] Tally Software		1	15000	15000
	[07] EPABX System		1	50000	50000
	[08] Office Furnishing		1	200000	200000
	<b>Total</b>				<b>710000</b>

## Action plan – 2010-11

Taralabalu KVK, Davanagere

Sl. No.	Particulars	Justification, if required	No.s	Rate	Amount
<b>6</b>	<b>A.V. AIDS :</b>				
	[1] Black Board (Wooden), 12' x 4'		2	20000	40000
	[2] Notice Board (Wooden), 10' x 4'		4	15000	60000
	[3] Aluminium Framed Display Boards, 2' x 4'		10	1000	10000
	[4] Fixograph, 3' x 6'		3	5000	15000
	[5] Digital DVD Version Handycam		1	30000	30000
	[6] Digital Camera, 10 Mega Pixel	To increase the availability of camera to Scientists visiting different places on the same day, this one is proposed	1	25000	25000
	[7] Plasma TV, 29" with DVD Player + Home Theatre	One in Training Hall & another in Dinning Hall	2	50000	100000
	[8] Lap Top	One in Training Hall & another for Off Campus Training	2	70000	140000
	[9] LCD Projector	In addition to the existing one in Training Hall,another is required for Off Campus Training	1	70000	70000
	[10] Public Address System	One in Training Hall & another for Off Campus Training	1 Set	30000	30000
	[11] Exhibition Boards, Single Side - 4 Panel - 2' x 3'		5	8500	42500
	[12] Exhibition Boards, Double Side - 4 Panel - 2' x 3'		5	10000	50000
	<b>Total</b>				<b>612500</b>
<b>7</b>	<b>FIXTURE &amp; FITTINGS :</b>				
	[1] Ceiling Fans		50	1500	75000
	[2] Exhaust Fans		10	2000	20000
	[3] Street Lights		5	5000	25000
	[4] Street Lights (Solar)		10	30000	300000
	[5] Inter-Com with 9 Extn. Points including the cost of Wiring		1	60000	60000
	[6] UB Light Trap		1	2000	2000
	[7] Utensils for Hostel		1	356320	356320
	<b>Total</b>				<b>838320</b>

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Taralabalu KVK, Davanagere

<b>8</b>	<b>ESTABLISHMENT OF LIBRARY</b>		1	100000	100000
<b>9</b>	<b>ESTABLISHMENT OF DEMONSTRATION UNITS :</b>				
	[01] Dairy Animals	Sent Proposal vide letter # TKVK-OS-101/38 dt. 12.05.09	1	210000	210000
	[02] Portable Fish Hatchery	Separate Proposal will follow with in a month	1	250000	250000
	[03] Soil and Water Testing Laboratory		1	1600000	1600000
	[04] Plant Diagnostic Centre		1	1500000	1500000
	<b>Total</b>				<b>3560000</b>

Taralabalu Rural Development Foundation's												
TARALABALU KRISHI VIGYAN KENDRA, KADALIVANA, LIC COLONY LAYOUT, BIET ROAD, DAVANAGERE-577004, KARNATAKA												
WORKSHEET												
DETAILED CALCULATION OF PAY & ALLOWANCE FOR 2010- 11												
Sl. No.	Name of the Staff Member	Designation	Pay Scale	Basic	Basic	D.P.	DA 87%	H.R.A.	Con.	Family	Total	Total
				for PF Calcul.		50%	Allow.		Planning Allow.	Per Month	Demand for 12 Months	
<b>I.</b>	<b>SCIENTIFIC POSTS :</b>											
1	Dr.T.N.Devaraja	Programme Coordinator	12000-18000	78000	13260	6630	17304	1492	400	0	39086	469032
	<b>Subject Matter Specialists:</b>											
2	Mr.M.G.Basavanagowda	Horticulture	8000-13500	78000	9100	4550	11876	1024	400	0	26950	323400
3	Mr.B.O.Mallikarjuna	Agronomy	8000-13500	78000	8825	4413	11517	993	400	0	26148	313776
4	Dr.G.K.Jayadevappa	Animal Science	8000-13500	78000	8825	4413	11517	993	400	0	26148	313776
5	Mr.Raghuraja J.	Agri. Extension	8000-13500	78000	8550	4275	11158	962	400	0	25345	304140
6	Mr.Prasannakumara N.	Plant Protection	8000-13500	78000	8550	4275	11158	962	400	0	25345	304140
7	Dr.Pradeep H.M.	Soil Science	8000-13500	78000	8550	4275	11158	962	400	0	25345	304140
	<b>Total-'A'</b>			<b>546000</b>	<b>65660</b>	<b>32831</b>	<b>85688</b>	<b>7388</b>	<b>2800</b>	<b>0</b>	<b>194367</b>	<b>2332404</b>
<b>II.</b>	<b>TECHNICAL POSTS :</b>											
	<b>Programme Assistants:</b>											
8	Mr.Vijayakumar S.B.	Farm Manager	5500-9000	78000	5850	2925	7634	658	75	0	17142	205704
9	Vacant : Will be filled	Home Science	5500-9000	78000	5850	2925	7634	658	75	0	17142	205704

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10	Mr.Santhosh B.	Computer	5500-9000	78000	5850	2925	7634	658	75	0	17142	205704
<b>III.</b>	<b>ADMINISTRATIVE POSTS :</b>											
11	Mr.Mallikarjuna S.Gudihindala	Assistant (Adm)	5500-9000	78000	8300	4150	10832	934	75	175	24466	293592
12	Ms.Mamatha H.Melmalagi	Junior Steno-Cum- Computer Operator	4000-6000	78000	4500	2250	5873	506	75	0	13204	158448
<b>IV.</b>	<b>SUPPORTING POSTS :</b>											
13	Mr.B. Shivakumara	Grade-I	2550-3200	78000	2840	1420	3706	320	75	0	8361	100332
14	Mr.S.E.Shivakumara	Grade-I	2550-3200	78000	2840	1420	3706	320	75	0	8361	100332
<b>V.</b>	<b>AUXILIARY POSTS :</b>											
15	Mr.N.M.Marulasiddaiah	Driver	3200-4900	78000	3455	1728	4509	389	75	0	10156	121872
16	Mr.S.Shivakumara	Driver	3200-4900	78000	3455	1728	4509	389	75	0	10156	121872
	<b>Total-'B'</b>			<b>702000</b>	<b>42940</b>	<b>21471</b>	<b>56037</b>	<b>4832</b>	<b>675</b>	<b>175</b>	<b>126130</b>	<b>1513560</b>
	<b>TOTAL (A+B)</b>			<b>1248000</b>	<b>108600</b>	<b>54302</b>	<b>141725</b>	<b>12220</b>	<b>3475</b>	<b>175</b>	<b>320497</b>	<b>3845964</b>
<b>CALCULATION OF PROVIDENT FUND REQUIREMENT :</b>			<b>ABSTRACT OF TOTAL REQUIREMENT UNDER PAY</b>									
												<b>Grant for</b>
												<b>2010-2011</b>
			Rs.									
a.	EPF-ICAR Contribution @ 12% on PF Basic Pay	Rs.	149760	a) Total (A + B)								3845964
b.	EPF Administrative Charges @ 1.1%		13728	b) ICAR-CPF Contribution								169853
c.	EDLI @ 0.5%		6240	c) Medical Charges Reimbursement								50000
d.	EDLI Administrative Charges @ 0.01%		125	d) ICAR-Gratuity Contribution								103958
				e) Expected DA Hike @ 10% in a Year								195482
	<b>Total</b>		<b>169853</b>									
											<b>ROUNDED OFF TO Rs.</b>	<b>4365257</b>

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### 24. Targets for E-linkage activities for 2010 - 11

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
01	Final installation of E-Linkage facility	April 2010	
02	Creation of web-site		
03	Development of Technological Models with modules in major disciplines		
04	Creation and maintenance of relevant database system for KVK		
05	Any other (Please specify)		

### 25. Activities planned under Rainwater Harvesting Scheme during 2010-11 (only to those KVKs which are already having scheme under Rain Water Harvesting)

*We request council to sanction Rain water harvesting scheme to our KVK.*

### 26. Details of activities planned, other than those listed above:

#### *1. Farmers Field School (FFS) –*

1. **Title of FFS:** Integrated Crop Management (ICM) in Tomato
2. **Problem Definition:** Tomato is the most important remunerative crop of the district. The reduction in the income is mainly due to lack of knowledge on nutrient management, pest and disease management, time of transplanting, poor agronomic practices (Weeding, water management and earthing up, staking) and no value addition.
3. **Main objective of FFS:**
  - ICM reduce the cost of production
  - Higher yield
  - Higher net returns (B:C ratio)
4. **Scientific rationale of FFS:** Tomato is an important crop of the district from decades. But the farmers are switching over to the other vegetables mainly due to improper management and low price during peak harvesting time. Through FFS identified the problems will be tackled to effect the net returns.
5. **The learning process involved in FFS:**
  - Tomato growers/farmers will be learn about the ICM approaches by actively involving from sowing to marketing stage.
  - The participants will be divided into 4-5 groups. Each group will take up ICM practices, conduct Agro Ecological Situation of the Area (AESAs) take up measurement/observation of plant height, No. of fruits / plant, incidence of pest and disease in ICM plots and farmers practice plots

If I listen, I may forget  
 If I see, I may believe  
 If I discover, I may own it  
 If I practice, I may perfect

Therefore, FFS one can see, do, discover and practice.

#### 6. Layout :

<b>ICM</b>	<b>Farmers practice</b>
0.2 ha	0.2 ha

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### 7. Budget:

Sl.No.	Particulars	Amount (Rs.)
1	Seeds (3 packets)	1000-00
2	Organic manure (Vermicompost)	2000-00
3	Vegetable special – 4 kg	600-00
4	<b>IPM measures</b>	
	Marigold seeds – 100 gm(Fruit borer)	100-00
	Imidacloprid (0.3 ml/l) – 200 ml (Sucking pests)	350-00
	Neem cake – 50 kg (Fruit borer)	500-00
	Hostothion (1.5 ml/l) (Leaf minor)	250-00
	Mancozeb (2.5 gm/l)(Early and late blight )	300-00
	Pheromone trap – 5 No. (Fruit borer)	500-00
5	FFS kit	1500-00
6	Stationeries	900-00
7	Caps and Bags	3000-00
8	Refreshment	4000-00
9	Field day	1000-00
10	Publication	5000-00
11	POL	1000-00
12	Exposure visit for FFS farmers	3000-00
	<b>Total</b>	<b>25,000-00</b>

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- II. ***MSW dissertation works*** : Three students from Department of MSW (Master of Social Work) Davanagere University, Davanagere are engaged in conducting their academic dissertation work in our KVK during 2009-10 and 2010-11.
- III. ***Ground water recharging activity***: Our KVK has planned to clean up a deserted well in Halebisleri village with help of villagers as a part of groundwater recharging activity.
- IV. ***Watershed work in Kesarivana***: A proposal has been prepared to execute a watershed programme model in Kesarivana campus of our KVK.
- V. ***KRVP-NEAC***: Fifth National Environmental Awareness Campaign is planned with the sponsorship of Karnataka Rajya Vigyana Parishath, Bangalore.
- VI. ***Yelaneeru Mela***: A special tender Coconut fair ( Yelaneeru mela) will be organized in July/ August this year to sensitize the citizens of Davanagere district and support the Coconut farmers.
- VII. ***Germplasm of Coconut – demo plot***: A demo plot at Kesarivana campus will be established for various varieties of Coconut with the help of Dr. D.C. Chowta of Kasargod, CPCRI, Kasargod and CDB, Kochi.
- VIII. ***Market tie up for Banana growers with Safal***: A special arrangement of marketing with safal for Banana growers of Siddanuru village, Davanagere taluk will be established this year. These farmers will be trained to adopt precision farming like farmers of Dharmapuri district, Tamil Nadu.
- IX. ***World Water Day – Road Jatha and Seminar***: On March 22<sup>nd</sup> 2011, World Water Day will be observed with Road Jatha and followed by a seminar on Water conservation in our KVK.
- X. ***World Environment Day – Road Jatha and Seminar***: World Environment Day will be observed on June 5<sup>th</sup> 2010 in collaboration with a local school.
- XI. ***AIDS Awareness Day – Road Jatha and interactive seminar***: On December 1<sup>st</sup> 2010, International AIDS awareness day will be conducted with the help of local Doctors for our farmers and farm women.
- XII. ***Sugarcane Juice centers – Awareness training*** : A special training programme will be conducted for sugarcane juice makers in the city during June/July 2010 of Davanagere city.
- XIII. ***Biofuel demo block and awareness workshops***: A demo block consisting various plant species that are known to produce oil will be established in Kesarviana campus.
- XIV. ***Conservation of traditional paddy varieties***: A special effort will be made to conserve traditional paddy varieties of Karnataka and other places in collaboration with Sahaja Samrudha of Bangalore.