

Krishi Vigyan Kendra Hirehalli, Tumkur

ACTION PLAN MEETING 2010-11

**Dr.L.B.NAIK
Programme Coordinator**

GENERAL INFORMATION

Name of the Programme Coordinator I/C Residence Phone Number/ Mobile No.	:	Dr. L.B. Naik Res:080-25449212 Mob:9449816584
Year of sanction	:	March, 2009
Year of start of activities	:	2009 -10
Major farming systems/enterprises	:	Dry Land Agriculture, Horticulture & Dairy
Name of agro-climatic zone	:	Central and Eastern - Dry Zone
Soil type	:	Red sandy and black soils
Annual rainfall (mm)	:	540.7 mm

Particulars	Programme Coordinator	SMS	Programme Assistant	Admn. Staff	Auxiliary Staff	Supporting Staff	Total
Sanctioned	01	06	03	02	02	02	16
Filled	-	06	03	02	02	02	15

Present Details of Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Date of joining	Permanent/ Temporary
1.	Programme Co-ordinator	Dr.L.B.Naik	Agronomy		p
2.	Subject Matter Specialist	Sri. K.N. Jagadish,	Agril.Extension	17.11.2009	p
3.	Subject Matter Specialist	Sri P.R.Ramesh,	Soil Science	17.11.2009	p
4.	Subject Matter Specialist	Sri Prashanth J.M	Horticulture	24.11.2009	p
5.	Subject Matter Specialist	Sri B. Hanumanthe Gowda	Plant Pathology	02.12.2009	p
6.	Subject Matter Specialist	Ms. Radha R.Banakar	Home Science	05.12.2009	p
7.	Subject Matter Specialist	Dr. Somashekhar	Plant Breeding	07.12.2009	p
8.	Computer Programmer	Ms. Jyoti Appu Naik	Computer Programmer	30.09.2009	p
9.	Farm Manager	Sri K.S.Sanna Manjunath	Farm Manager	01.10.2009	p
10.	Programme Assistant	Sri Shiva Shankar Murthy	Programme Assistant	08.10.2009	p
11.	Accountant/Superintendent	Sri. D. Krishnappa	Accounts	14.10.2009	p
12.	Stenographer	Veda Kurnalli	Stenographer	17.02.2010	p
13.	Driver	Sri M.H.Ningappa	Driver	30.12.2009	p
14.	Driver	Sri Hemanth Kumar	Driver	4.1.2010	p
15.	Supporting staff	Smt. Jaya	Supporting staff	23.07.2009	p
16.	Supporting staff	Sri P.Narayanappa	Supporting staff	24.07.2009	p

Plan of Human Resource Development of KVK personnel during 2010-11

Sl. No.	Discipline	Area of training required	Institution where training is offered	Approximate duration (days)	Training fee (Rs.)
1	Soil Science	Soil Test Crop Response Approach INM in Oilseed Crops	DOR, Hyderabad	21 days	-
2	Home Science	Value Addition to Fruit, vegetables and Minor Millets	CFTRI, Mysore	11 days	-
3	Plant Pathology	Recent advances in Plant Disease Management	TNAU, Coimbatore	21 days	-
4	Horticulture	IFS for sustainable production system	UAS Dharwad	21 days	-
5	Plant Breeding	DNA Finger Printing for Sun Flower Hybrids	DOR, Hyderabad	7 days	-
6	Agril.Extension	1.Agril.Extension -Approaches and Strategies 2.Multimedia Technology 3.Use of ICT	MANAGE Hyderabad, NAARM, Hyderabad NAARM, Hyderabad	21 days 5 days 5 days	-
7	Computer	Programing language/s in Computer Science	NAARM, Hyderabad, Andra Pradesh	15 days	-

Infrastructure

Total Area (ha)	Area Cultivated (ha)	Area occupied by buildings and roads (ha)	Area with demonstration units (ha)
16	15.20	0.8	-

Vehicles

Type of vehicle	Model	Actual cost (Rs.)	Total kms. Run	Present status
Bolero Diesel Jeep	2009	596783.00	20,295	Good
Motor Cycle	2010	52,658.00	-	Good
Honda – Aviator	2010	46025.00	-	
Power Tiller	2010	1,42,400.00	17 hrs	

Equipments & AV aids

Sl. No.	Name of Equipments	Date of purchase	Cost (Rs.)	Present status
1.	Fax Machine	2010	21,381.00	Good
2.	Xerox Machine	2010	67,262.00	Good
3.	Camera Nikon – Digital	2010	24,950.00	Good
4.	Computer with accessories	2010	49,900.00	Good
5.	White Board with stand	2010	950.00	Good

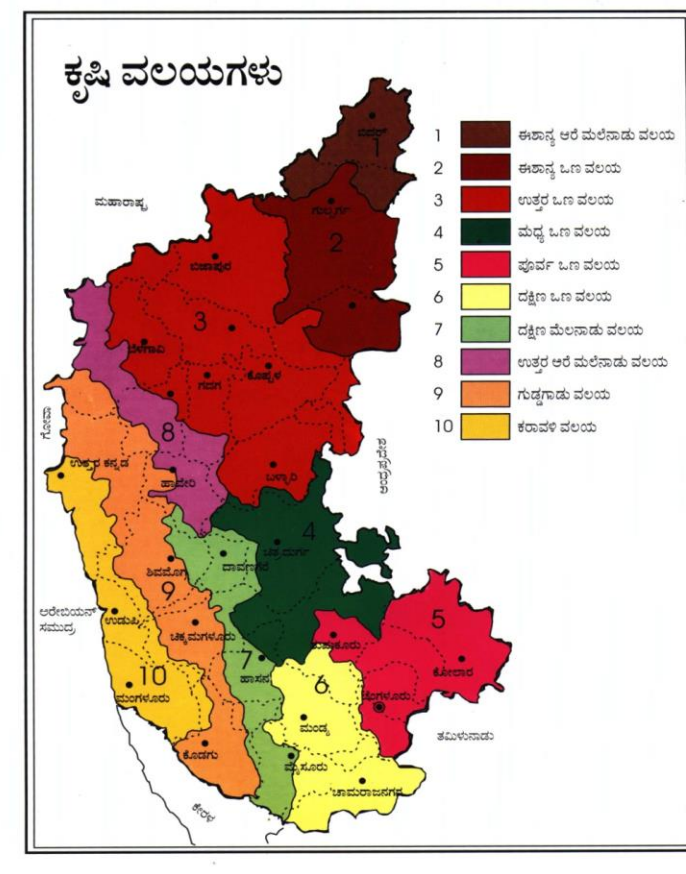
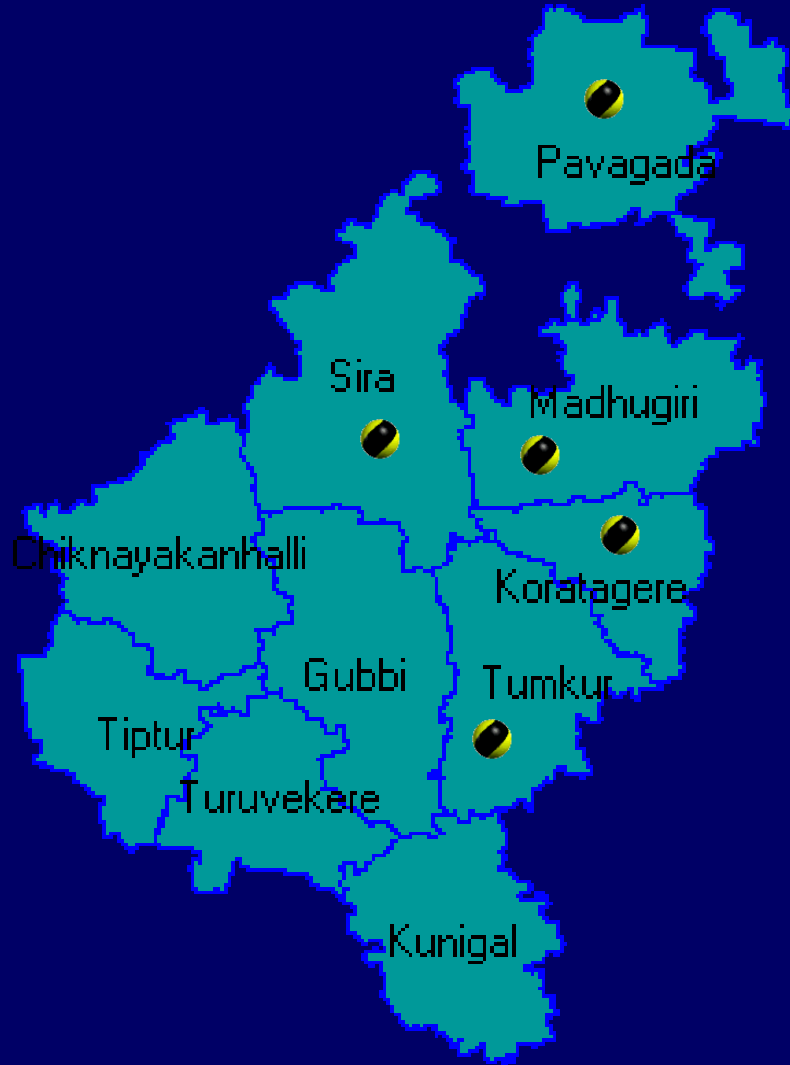
Details of SAC meeting conducted during 2010-11

Date	Major recommendations of SACs which are to be implemented during 2009-10
29.03.10	<ol style="list-style-type: none">1. It is suggested to take up the soil and water testing in Tumkur taluk2. It is advised to lay out the demonstration on farmers fields on intercropping instead of mono- cropping3. It is advised to technical guidance for producing quality seeds in the farmers field4. Thrust should be given water harvesting technology and integrated farming system5. Activities related to floriculture, ploy house production can be taken be up with the help of Department of Horticulture6. It is suggested to take up the animal related with the help of state veterinary Department and SMS (Animal Science), KVK, Konehalli7. Emphasis should be given for micro irrigation system for increasing water use efficiency8. Resources of other KVK can be utilized for better implementation for various programmes9. Emphasis should be given on aerobic paddy cultivation in area like Pavagada10. Groundnut diggers can be used efficiently for harvesting groundnut crop11. Tamarind processing machine should be demonstrated at KVK premises12. Establishment of Nutritive kitchen gardening in KVK farm13. It is suggested to demonstrate the success stories of the farmers

PLAN OF WORK

Operational Area Details

JURISDICTION OF KVK, Hirehalli



Zone-4

- Koratagere
- Madugiri
- Pavagada
- Sira

Zone-5

- Tumkur

Operational Area

Name of Taluk	Villages selected
Tumkur	Haralur, Beemasandra, Bairsandra, Gollahalli, Neralpur,
Korategere	Chikvalli, Kymanhalli, Bidlot, Kodlahalli
Madhugiri	Badavanhalli, Siddapur, Siridragallu, Vadderahalli
Pavagada	Kotgudda, Shilapur, Mugadal Betta, Arkyatanhalli
Sira	Hendore, Kataveeranahalli, Chikkanahalli, Veerapura and Kamagondanahalli

SUMMARY OF LIST OF THRUST AREAS

- High Yielding varieties / Hybrids
- Seed treatment with Bio fertilizers and fungicides
- Soil test based fertilizer application
- Integrated Nutrient Management
- Intercropping / Mixed / Multistoried cropping system
- Seed Production Techniques in Vegetables and field crops
- Integrated Pest & disease Management
- Post harvest technology in vegetables and fruits
- Soil and water conservation
- Fodder production and dairy farming
- Propagation techniques in fruits and vegetables
- Value addition
- Drudgery reduction
- Income generating activities
- Child and women care and balanced nutrition

***Abstract of Interventions
proposed based
on the identified problems
during 2010-11***

Abstract of intervention during 2010-11

Sl. No	Interventions	Numbers
1.	OFT	13
2.	FLD	24
3.	Trainings (Farmers, Farm women, Extension functionaries, Rural youth & Sponsored)	127
4.	Field days/ Exhibition including seed day	15
6.	Special days	08

Abstract of Interventions proposed based on the identified problems during 2009-10

OFT 's :13

S. No	Crop/ Enterprise	Identified Problem	Interventions		
			Title of OFT if any	Title of Training if any	Title of Training for extension personnel if any
1	Groundnut	Collar rot	Management of collar rot in groundnut	IDM in Ground Nut	
2	Groundnut	Smaller seed size	Assessment of GPBD-5 a bold seeded variety	Seed Production Techniques in Ground Nut	Quality Seed Production in Oil Seeds
3	Sunflower	Powdery mildew	Powdery mildew management in sunflower	IDM in Sun flower	-
4	Redgram	1. Low yield due to seed drill sowing	1. Enhancing the productivity in Red gram production system (Transplanting)	-	-
5	Mango	Mono - cropping in Mango	Assessment of Mucuna as a intercrop in Mango	-	-
6	Banana	1.Low plant population 2.Low yield & income	Paired row planting system in banana	-	-

Abstract of Interventions proposed based on the identified problems during

2009-10

OFT 's :13

S. No	Crop/ Enterprise	Identified Problem	Interventions		
			Title of OFT if any	Title of Training if any	Title of Training for extension personnel if any
7	Arecanut	1.Splitting of nuts and low	Management of nut splitting in Arecanut	-	-
8	Coconut	Mite problem	Management of mites	IPDM in coconut	-
9	Tomato	1. Local varieties 2.Low acidity and TSS	Performance and assessment tomato varieties	-	-
10	Tomato	Low nutrient use efficiency	Assessment of microbial consortium for tomato production -	INM in Tomato	-
11	Aster	1. Smaller Flower Size and diameter 2. Dull colour and low yield	Assessment of HYV Phule Ganesh	-	-
12	Horticultural crops	Snail menace in horticultural crops Lack of knowledge on snail	Management of snails in horticultural crops	Snail management in horticultural crops 2. Bait preparation for snail control	-
13	Ground Nut Decorticator	Drudgery	Assessment of Ground Nut Decorticator	Drudgery reducing equipments	-

Abstract of Interventions proposed based on the identified problems during 2010-11

FLD 's :24

S. No	Crop/ Enterprise	Identified Problem	Interventions		
			Title of FLD if any	Title of Training if any	Title of Training for extension personnel if any
1	Paddy	Salinity	Management of saline soils in paddy	Management of Salinity Soils in Paddy	Management of Salinity Soils in Paddy
2	Paddy	Limited water	Aerobic paddy cultivation	Aerobic paddy cultivation	-
3	Ragi	Low yield	ICM in ragi	Improved Production Practices in Ragi	-
4	Ragi	Mono cropping -Ragi	Ragi based double cropping system	Importance of Double cropping system in Ragi	-
5.	Maize	Zinc deficiency, Downy mildew and TLB disease, Low yield	Enhancing productivity through ICM	Production Technologies in Maize	-
6.	Groundnut	Tikka disease, Root grub Lower yield	ICM in Groundnut	Integrated Crop Management in Ground Nut	-
7.	Sunflower	Low nutrient use efficiency Low yield	Soil test based fertilizer application	Soil test based fertilizer application	-
8	Redgram	Sterility mosaic ,Pod borer, Low yield	ICM in Redgram	IPM in Redgram	-
9.	Cotton	Flower dropping, Leaf reddening , Sucking pest, bollworms	1ICM Cotton	IPM in Cotton	ICM in Cotton
10	Mango	Flower & fruit dropping, Fruit fly Powdery mildew	ICM in Mango	Production Technologies in Mango	IDM in Mango

Abstract of Interventions proposed based on the identified problems during 2010-11

S. No	Crop/ Enterprise	Identified Problem	Interventions		
			Title of FLD if any	Title of Training if any	Title of Training for extension personnel if any
11	Banana	Lower bunch size and yield	Micronutrient management in Banana	INM in Banana	-
12	Arecanut	Anaberoga	Integrated Management of Anaberoga	IDM in Areca Nut	IDM in Areca Nut
13	Pomegranate	Bacterial blight -	Integrated Management of Bacterial blight	IDM in Pomegranate	-
14	Tomato	Local varieties, Bacterial blight and leaf	ICM in tomato	Importance of Seed Production in Tomato	-
15	Brinjal	Bacterial wilt, Low yield	ICM in brinjal	Seed Production Techniques in Brinjal	-
16	Dolichos	Low yield	Popularization of Arka Vijay high yielding variety.	Seed Production Techniques in Vegetables	-
17	French Bean	Rust , Low Yield	ICM in French bean	Improved Cultivation Practices	-
18	Cabbage	Diamond Black Moth (DBM)-	Integrated Pest Management in Cabbage	IPM in Cabbage	-
19	Aster	Low Yield	Maintaining productivity in Aster	Quality Seed Production in Flower crops	-
20	Mari Gold	Smaller Flower Size and diameter, Dull colour and low yield	Popularization of Orange Double variety	Production Practices in Mari Gold	-

Abstract of Interventions proposed based on the identified problems during 2010-11

S. No	Crop/ Enterprise	Identified Problem	Interventions		
			Title of FLD if any	Title of Training if any	Title of Training for extension personnel if any
21	Post harvest technology	Improper drying of seeds, Improper use of storage methods, Unaware about safe storage technology	Safe storage method for pulses Importance of safe storage to avoid post harvest losses	Importance of safe storage to avoid post harvest losses	-
22	Azolla	Low Milk	Azolla alternate feed for Milching animals & Partial replacement of concentrates with Azolla	Azolla Cultivation	Azolla Cultivation
23	Fodder	Low Yield , Non Availability of Green Fodder	Introduction of CO - 4 variety.	Production Technologies in Fodder Crops	-
24	Fodder	Non Availability of Green Fodder	Enrichment of dry fodder	Enrichment of Dry fodder and use of concentrate in Feed.	



ON FARM TESTING
2010-11

ON FARM TESTING 2010-11 : GROUNDNUT (Assessment)

Title of Technology	:	Evaluation of groundnut varieties
Problem Definition	:	lower yield, smaller pod size
Rationale for selection of technology	:	GPBD-4 is not preferred by the farmers / traders because of its smaller pod size.

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Use of TMV -2		
TO 2: RPP	GPBD -4	UAS, Dharwad.	
TO 3 : Alternate Practice	GPBD - 5	UAS, Dharwad	GPBD – 5 is of bigger pod size, traders and farmers are preferred much and gives good yield.

Budget proposed for OFT : 1 ha

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options III			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Seeds	20 kg	45	900	Seeds	25 kg	45	1125
	Total			900		Total		1125

Total budget required

: Rs. 10,125

ON FARM TESTING 2010-11 : GROUNDNUT (Assessment)

Title of Technology	:	Management of collar rot disease in groundnut
Problem Definition	:	Colonization of fungus in the rhizosphere at root zone causes incidence of collar rot in Groundnut
Rationale for selection of technology	:	Ecofriendly and low cost management practices

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Seed treatment with Captan @ 2.5g/kg		
TO 2: RPP	Seed treatment with Trichoderma @ 4g/kg seed	UAS, Bangalore	In efficiency of present bio agent alone
TO 3 : Alternate Practice	Seed treatment with Pseudomonas fluorescence @ 4g/kg seeds & soil treatment with Pseudomonas @ 2.5kg & Neemcake @ 2.5q	PDBC, Bangalore	35-40% decrease in yield loss due to disease.

Budget proposed for OFT : 1 ha

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	<i>Trichoderma</i>	500 gm	60/kg	30.00	<i>Pseudomonas flouroscense</i>	3 kg	250/kg	750/-
2	-	-	-	-	NSK	2.5 q	10/kg	2,500/-
	Total			30/-				3,250/-

Total budget required

: Rs. 9,840



ON FARM TESTING 2010-11 : SUNFLOWER (Assessment)

Title of Technology	:	Powdery mildew management in sunflower
Problem Definition	:	powdery mildew incidence.
Rationale for selection of technology	:	Identifying the most suitable cost effective technology for higher income.

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Not spraying any chemical		
TO 2: RPP	Difenconazole (1ml/lt)	AICRP Sunflower Bangalore	
TO 3 : Alternate Practice	Hexaconazole (1ml/lt)	AICRP Sunflower Bangalore	
TO 4 : Alternate Practice	Calixin(1 ml/ltr.)	AICRP Sunflower Bangalore	
TO 5 : Alternate Practice	Powdery mildew resistance hybrid KBSH-53		

Budget proposed for OFT : 1 ha

Critical inputs for other technology Option II				Critical inputs for other technology Options III			
Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
Seeds	5kg	180	900	Seeds	5kg	180	900
Difenoconazole	1lit	3000 /lt	3000	Hexaconazole	1lt	1,000	1,000
	Total		3900				1,900

S. No	Critical Inputs for Technology Option IV				Critical inputs for other technology Options V			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Seeds	5kg	180	900	Seeds	5kg		900
2	Calaxin	1lt	1,760	1,760	(KBSH53)			900
	Total			2,660				900

Total budget required

: Rs. 9,360.00



ON FARM TESTING 2010-11 : REDGRAM (Assessment)

Title of Technology	:	Enhancing the productivity in Red gram production system
Problem Definition	:	Lesser germination percentage, lower productivity of the cropping system
Rationale for selection of technology	:	Higher productivity, soil & moisture conservation, uniform stand of crop, inducement of drought tolerance & lower incidence of pests

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Monocropping of red gram in a closer spacing		
TO 2: RPP	Recommended Practice: direct sowing with a spacing of 90 X15 cm	UAS Bangalore	
TO 3 : Alternate Practice	Transplanting of 30-40 days old seedling 120 X 30 cm spacing of BRG – 2	UAS Dharwad	Raised in polythene bags as to achieve uniform stand and higher yield
TO 4: Alternate Practice	Transplanting of 30-40 days old seedlings 120 X 45cm spacing of BRG - 2	UAS Dharwad	-do-

Budget proposed for OFT

SI NO	Critical inputs for recommended technology Option II				Critical inputs for other technology Option III			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Redgram (BRG-1)	15kg/ha	75/kg	1125	Redgram (BRG-1)	15kg/ha	75/kg	1125
2					Polythene cover	5kg/ha	100/kg	500
3	Total 1125				Total 1625			

S. No	Critical inputs for recommended technology Option IV			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Redgram(BRG-1)	15kg/ha	45/kg	1125
2	Polythene cover	5kg/ha	100/kg	500
3	Total 1625			

Total budget required

:Rs. 4375

ON FARM TESTING 2010-11 : MANGO (Assessment)

Title of Technology	:	Assessment of Mucuna as intercrop in Mango
Problem Definition	:	Low soil fertility, Lower income and more weeds infestation
Rationale for selection of technology	:	Mucuna as a medicinal crop which can be used as cover crop which adds nitrogen to soil and suppress the growth of weeds & more remunerative with less cost of cultivation

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Mango + Ragi		
TO 2: RPP	Mango + Cowpea (pulse)	UAS, Bangalore	Growing cowpea as inter crop in mango will not give more income and weeds will not be controlled effectively
TO 3 : Alternate Practice	Mango + Mucuna	CHES, Hirehalli	Mucuna as inter crop fixes nitrogen to soil, gives more remunerative and controls the weeds effectively.

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	Cowpea Seeds	4.0 kg	80	320	Mucuna seeds	12.0 kg	80	960	
	Total		80	320	Total		80	960	

Total budget required

: Rs. 6,400/-



ON FARM TESTING 2010-11 : BANANA (Assessment)

Title of Technology	:	Paired row with Zigzag method of planting in Banana
Problem Definition	:	Low density and low yield
Rationale for selection of technology	:	Normal planting is 2260/ha & the No. of plants in paired row planting zig zag method is 3800/ha. HDP will reduce the no. of laterals which would be encouraging the higher yield

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Square method 1.8m x 1.8m spacing		
TO 2: RPP	Square method (2.1mx2.1m spacing)	UAS, Bangalore	Lower yield per hectare, high cost involved for staking
TO 3 : Alternate Practice	Paired row method (2x1.2x1.5m)	NRC on banana (Thirchi)	More number of plants with paired row method compare to RPP method

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	suckers	suckers 600	3/-	1800	suckers	suckers 700	3/-	2,100
			3/-	1800/-			3/-	2,100/-

Total budget required

:Rs. 11,700



ON FARM TESTING 2010-11 : ARECANUT (Assessment)

Title of Technology	:	Management of Nut splitting in Arecanut
Problem Definition	:	Severe nut splitting and yield loss
Rationale for selection of technology	:	Sudden flush of water after a period of water stress and boron deficiency leads to the nuts splitting which leads to poor growth and cracking of the nuts.

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Application of complex fertilizers (17All) 2 bags and less FYM application		
TO 2: RPP	FYM 12 kg/tree + RDF 100: 40: 140 NPK g /tree	UAS, Bangalore	There is no recommendation specific dosage of micronutrient
TO 3 : Alternate Practice	FYM 12 kg/tree + RDF 100: 40: 140 NPK g /tree + Borax 30g /tree	CPCRI, Kasaragod	Application of boron reduces the nut splitting

Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options III			
	Name	Qty. (kg)	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.(kg)	Unit Cost (Rs.)	Total Cost (Rs.)
1	Urea	24.2	5.0	121	Urea	24.2	5.0	121
2	SSP	22.0	4.0	88	SSP	22.0	4.0	88
3	Mop	25.4	4.6	117	Mop	25.4	4.6	117
					Borax	8.0	60	480
		Total	13.6	326		Total	73.6	806

Total budget required

:Rs. 5,660



ON FARM TESTING 2010-11 : COCONUT (Assessment)

Title of Technology	:	Integrated management of eriophid mite in coconut
Problem Definition	:	Higher incidence of eriophyd mite
Rationale for selection of technology	:	To make coconut palms healthier by proper nutrition and to increase the productivity of coconut garden

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Application of 20-25kg of FYM/palm, *250 gm/palm complex fertilizer.		
TO 2: RPP	50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg neem cake / palm, 50 g borax / palm / year, 500g MgSO ₄ / palm / year, Eco neem Plus 1% (10ml/palm, 3 times / year)	UAS Bangalore	
TO 3 : Alternate Practice	50 kg FYM, 500:320:1200g NPK per palm / year, 5 Kg neem cake / palm Nutritional tonic (250 ml / palm twice a year at 6 months interval)	TNAU, CBE	improves soil fertility, induces tolerance for incidence of pests inturn increases the overall productivity of the garden.

Budget proposed for OFT

S. No	Critical inputs for technology Option II Recommended technology				Critical inputs for technology Option III			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	--	--	--	--	--	--	--	--
2	Urea	60kg	5/kg	300-00	Urea	60	5/kg	300-00
3	SSP	110kg	4/kg	440-00	SSP	110	4/kg	440-00
4	MOP	100kg	4.6/kg	460-00	MOP	100	4.6/kg	460-00
5	Borax	2.5kg	300/kg	750-00	Coconut tonic	12.5 Ltr.	425	5,312-50
6	Mg so4	2.5kg	60/kg	150-00				
7	Econeem plus	1.5 ltr	800/lt	1,200-00				
8	Neem cake	250kg	10/kg	2,500-00				
	Total			5,800	Total			6,512.5



Total budget required

: RS 24,626.00

ON FARM TESTING 2010-11 :TOMATO (Assessment)

Title of Technology	:	Assessment of tomato varieties .
Problem Definition	:	Susceptible for pest and bacterial wilt, leaf curl, low acidity and low yield and low market preference.
Rationale for selection of technology	:	Arka Vikas (Rainfed) has high acidity and high yielding, DMT-2 has bacterial wilt, leaf curl disease tolerant, high acidity content.

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Local varieties (Laxmi)		
TO 2: RPP	Arka Meghali (Rain fed)	IIHR, Bangalore	Susceptible to bacterial wilt, low acidity
TO 3 :Alternate Practice	Arka Vikas (Rainfed)	IIHR, Bangalore	High yielding, high acidity content
TO 4 :Alternate Practice	HYV -DMT-2 (Rain fed)	UAS, Dharwad	High yielding, high acidity content, tolerant to bacterial wilt & leaf curl

Budget proposed for OFT

Sl. 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.	Seeds	75 g	2000 /kg	150	Seeds	75 g	2000 /kg	150
	Total		2000	150	Total		2000	150

Critical inputs for technology Options 4			
Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
Seeds	75 g	2000 /kg	150
Total		2000	150

Total budget required : Rs. 2,250



ON FARM TESTING 2010-11 :TOMATO (Assessment)

Title of Technology	:	Assessment of microbial consortium for tomato production
Problem Definition	:	Low nutrient use efficiency, poor soil fertility and low productivity
Rationale for selection of technology	:	Use of combined microbial inoculants specific to tomato for nutrient supplement, growth promotion and biological means of disease management

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Complex fertilizers (17all) 2 bags		
TO 2: RPP	FYM 25t/ha +RDF 180: 100: 60 NPK kg /ha	IIHR, Bangalore	High cost involved for chemical fertilizers
TO 3 : Alternate Practice	FYM 25t/ha +RDF 135: 75: 60 NPK kg /ha + Microbial consortium 4 kg /ha	IIHR, Bangalore	Combined microbial inoculants for nutrient supplement, growth promotion and biological disease management.

Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options III			
	Name	Qty. (kg)	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty. (kg)	Unit Cost (Rs.)	Total Cost (Rs.)
1	Urea	39.0	5.0	195	Urea	29.3	5.0	147
2	SSP	63.0	4.0	252	SSP	46.9	4.0	188
3	Mop	10.0	4.6	46	Mop	10.0	4.6	46.0
					Microbial Consortium	4.0	100	400
	Total		13.6	493.0	Total		13.6	781

Total budget required

: Rs. 6,370

ON FARM TESTING 2010-11 : ASTER (Assessment)

Title of Technology	:	Performance of assessment of china Aster variety
Problem Definition	:	Small size flowers, diameter, low attractive colour and low yield
Rationale for selection of technology	:	Phule Ganesh pink having attractive colour, large sized and more numbers of flowers per plant and fetches higher price in the market.

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Local variety		
TO 2: RPP	Var: Kamini	IIHR, Bangalore	Medium yield and less attractive colour
TO 3 : Alternate Practice	Phule ganesh Pink (PG-8)	MPKV, Rahuri	High yielding, Large flower diameter and size & attractive pink colour and more number of flowers per plant (42 - 44)

Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options III			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Seeds	150g	4000/kg	600	Seeds	150g	4000/kg	600
	Total			600	Total			600

Total budget required : Rs. 6,000



ON FARM TESTING 2010-11 :ARECANUT (Assessment)

Title of Technology	:	Management of Snails in Horticultural crops (Arecanut)
Problem Definition	:	Snails are becoming serious pests of horticultural crops
Rationale for selection of technology	:	Identifying the most appropriate/safer method of snail management

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Farmers practice (No control measures or use of common salt		
TO 2: RPP	Use of Metaldehyde 10 kgs/ac (Not economical)	UAS Bangalore	Difficulty in procuring the chemical and costly.
TO 3 : Alternate Practice	Use of slightly ripened papaya to attract Snails. Manual collection and destruction	UAS Bangalore	Here snails have to be collected manually
TO 4 : Alternate Practice	Papaya/Rice bran bait with 10 gms of methomyl/kg bait	UAS Bangalore	Methomyl in bait kills effectively

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	Metaldehyde	25 kg	275	6875	Papaya	50	10	500
Total				6875	Total			500

S. No	Critical Inputs for Technology Option 3			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Papaya/Rice bran	50	20	1000
2.	Methomyl	0.5 kg	600	600
Total				1600

Total budget required : Rs. 8,975

ON FARM TESTING 2010-11 : GROUNDNUT DECORTICATOR (Assessment)

Title of Technology	:	Assessment of ground nut decorticator
Problem Definition	:	Drudgery and scarcity of labour
Rationale for selection of technology	:	Very fast shelling and less drudgery

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : Farmers Practice	Hand Shelling	-	Poor knowledge of improved drudgery reducing equipments
TO 2: RPP	UAS (B) model	PHT,UAS(B)	
TO 3 : Alternate Practice	CIAE, Bhopal Model	CIAE, Bhopal	Less time , less energy and less labour consuming

Budget proposed for OFT

S. No	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for technology Options III			
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	UAS (B) model Groundnut Decortic ator	02	1500	3000	CIAE BHOPAL model Groundnut Decortic ator	02	1500	3000
	Total			3000	Total			3000

Total budget required

: Rs. 12,000

Assessment of Neem leaves + Zinger powder for the management of pulse beetle at household level

Rationale for proposing the assessment : Recommended practice of using Aluminium Phosphide is not practical for storage of smaller quantities. Moreover, usage of chemical pesticides may pose health hazards to human beings. Hence the OFT is proposed for assessment..

Sl.No.	Technological Options	Details of Technology	Source of Technology	Justification
1.	Farmers Practice	Farmers are using boric powder for storage of pulses. As Boric powder is chemical, it causes health hazards	-	Poor knowledge and As Boric powder is chemical, it causes health hazards
2.	Technological Option 1	Aluminium Phosphide @ 12 tablets/ton (Not relevant at household level)		Not relevant at household level
3.	Technological Option 2	Preparation of baits from a mixture of Zinger powder and Neem leaves at the rate of 30 gms and 50 gms per kg of pulses.	Centre for Indian Knowledge Systems (CIKS), Chennai	The neem and zinger act as repellent, ovicidal effect on insect and antifeedent. That reduces the incidence of pulse beetles. In addition the raw materials are available locally with less cost and their will not be any bad effect on health

Budget for Assessment: Rs 3000/-

FRONTLINE DEMONSTRATIONS

2010-11

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 02

Number of Farmers-10

Title	:	Management of saline soils in Paddy
Thrust area	:	Soil and water management
Season of the Demonstration	:	Kharif
Technology to be demonstrated	:	Introduction of IR -30864 Green manuring crops (Daincha), FYM 5 ton/ha, Water Management, Azospirillum @ 2 kg/ha, PSB @ 2kg/ha ZnSo4-20 kg/ha
Reason for yield gap	:	Low nutrient uptake & low yield

Total budget- Rs.9176

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 01

Number of Farmers - 4

Title	:	Aerobic paddy cultivation
Thrust area	:	Sustainability in yield through effective water management in rice (Aerobic method)
Season of the Demonstration	:	Kharif
Technology to be demonstrated	:	1. Drill sowing 2. 25X25 cm spacing 3. FYM: 10 ton/ha 4. 100:50:50 NPK Kg/ha 5. Use of cono weeder & 6. pyrosulfuron ethyl @ 250gm/ha 7. Lesser water requirement (30-40% less)
Reason for yield gap	:	Lower water use efficiency

Total budget-Rs.1208

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 10

Number of Farmers - 25

Title	:	ICM in Finger millet
Thrust area	:	ICM
Season of the Demonstration	:	KHARIF
Technology to be demonstrated	:	Variety MR-6 - Inter cropping of MR-6 with Red gram.(BRG-2)- Carbendazim @2 gm/kg seed Azospirillum@ 2 kg/ha- PSB @ 2kg/ha)
Reason for yield gap	:	Moisture stress and use of local varieties

Total budget -Rs. 15,140

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 5

Number of Farmers - 12

Title	:	Ragi based double cropping system
Thrust area	:	Sequential cropping
Season of the Demonstration	:	Kharif
Technology to be demonstrated	:	Cowpea (Early Kharif) followed by Ragi (Medium durated variety GPU- 48) - FYM-7.5 t/ha - carbendazim @2 gm/kg seed - Azospirillum@ 2 kg/ha - PSB @ 2kg/ha
Reason for yield gap	:	Mono cropping Moisture stress, use of low yielding varieties

Total budget -Rs. 13,080

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 5

Number of Farmers - 12

Title	:	Enhancing productivity through ICM in Maize
Thrust area	:	ICM
Season of the Demonstration	:	Kharif
Technology to be demonstrated	:	Introduction of NAH-2049 hybrid – FYM-7.5 t/ha- RDF: 100:50:25 NPK kg/ha -ZnSo4 @10kg/ha - Atrazine @2.5 kg/ha
Reason for yield gap	:	Zinc deficiency, Downy mildew and TLB disease

Total budget -Rs. 13,250



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 1

Number of Farmers - 10

Title	:	ICM in Brinjal
Thrust area	:	ICM
Season of the Demonstration	:	Kharif
Technology to be demonstrated	:	-Introduction of Arka Anand / Keshav -Root dipping in <i>Trichoderma harzianum</i> 20gm/lt -Using Neem cake 250kg/ha
Reason for yield gap	:	-Use of Low yielding hybrids -Shoot and fruit borer incidence

Total budget -Rs. 10,175



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 2

Number of Farmers - 10

Title	:	ICM in French bean
Thrust area	:	Maintaining productivity
Season of the Demonstration	:	Kharif
Technology to be demonstrated	:	Arka Anoop / Suvidha seeds – 65kg Neem cake- 250kg Endosulfan- 2ml/lit <i>Trichoderma</i>- 5g/kg carbendazim- 1g /lit
Reason for yield gap	:	- Use of private varieties - Aphids, fruit borer & yellow mosaic problem - Wilt incidence - Root rot problem

Total budget-Rs. 19,850



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 2

Number of Farmers - 10

Title	:	Popularization of Orange Double variety in Marigold
Thrust area	:	HYV / Hybrids
Season of the Demonstration	:	Kharif
Technology to be demonstrated	:	Demonstration of Double orange variety
Reason for yield gap	:	use of low yielding varieties, Smaller Flower Size and diameter

Total budget- Rs. 4,000



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 2

Number of Farmers - 10

Title	:	ICM in Mango
Thrust area	:	ICM
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	<ul style="list-style-type: none">- FYM@25kg/plant- RDF 30:180:680 NPK gm/plant,- Mango Special spray @125g/25lt in July, November and December months- Spraying during Flowering Planofix @ 4ml/16lt- Spray Carbaryl @4gm/lt- Mango eugenol trap- 10 nos
Reason for yield gap	:	Flower& fruit dropping Fruit fly, Powdery mildew

Total budget -Rs. 13,900

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 2

Number of Farmers - 10

Title	:	Micronutrient management in Banana
Thrust area	:	Nutrient management
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	Banana Special (5gm/ltr) spray From 5th month to 10th month and at 1 and 2 months after Bunch emergence
Reason for yield gap	:	Low nutrient use efficiency leads to lower bunch size and yield

Total budget -Rs. 15,624

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 1

Number of Farmers - 5

Title	:	Maintaining productivity in Aster
Thrust area	:	Maintaining productivity in Aster
Season of the Demonstration	:	<i>Rabi</i>
Technology to be demonstrated	:	- Arka kamini Seeds – 750g - Methyl parathion -2ml /lt - Carbendazim-1g/lt
Reason for yield gap	:	- Use of local varieties -Wilt & cut worm

Total budget -Rs. 8,750

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) - 100 Palms

Number of Farmers - 10

Title	:	Integrated Management of Anaberoga in Arecanut
Thrust area	:	IDM
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	Neem cake @2kg/plant Drenching with Calixin @ 0.3 % Root feeding Calixin (1.5% or 15 ml /lt) @125ml spray solution / plant RDF, FYM 20kg/plant
Reason for yield gap	:	Anaberoga

Total budget-Rs. 7018

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area - 5 Nos

Number of Farmers- 5

Title	:	Azolla alternate feed for Milching animals
Thrust area	:	Maintaining milk production
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	-Cultivation of Azolla - Fertilizer application - SSP-10gm+MOP-10gm +100gm dung for a pit size of 3x2 meter+400gm Azolla
Reason for yield gap	:	Farmers do not know the importance of feeding Azolla and its low cost of production

Total budget -Rs. 3,500



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area – 0.7 No,s

Number of Farmers - 7

Title	:	Introduction of CO - 4 variety.
Thrust area	:	Maintaining productivity in fodder
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	- Cultivation of CO-4 fodder
Reason for yield gap	:	Using local variety which is low yielding. Not aware of potentiality of new varieties

Total budget -Rs. 2800

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 2

Number of Farmers - 10

Title	:	Integrated Management of Bacterial blight in Pomegranate
Thrust area	:	IDM
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	I. Streptocycline 0.5 g/lit + COC 3.0 g/lit mixed with red soil and paste to pruned parts. II. 1% Boudreaux Mixture III. Streptocycline 500ppm + COC 0.25% at emergence stage IV. 0.4 % Boudreaux Mixture V. Streptocycline 500ppm + COC 0.25 % VI. 0.4% Boudreaux Mixture + Bavistin 0.1% repeat the spray as and when required
Reason for yield gap	:	Bacterial blight

Total budget-Rs. 26,236



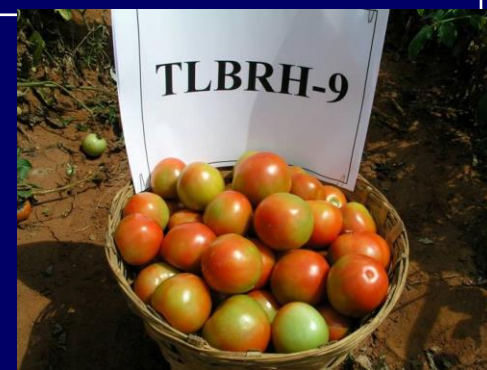
FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 2

Number of Farmers - 10

Title	:	ICM in Tomato
Thrust area	:	Integrated Crop management
Season of the Demonstration	:	RABI
Technology to be demonstrated	:	- Demonstration of Arka Ananya Hybrid - <i>Tricoderma viridae</i>- 2kg/ha - Neem cake soil application-250kg/ha - Imidoclophrid @ 0.5ml/lt - Neem Soap -10 g/lt (eco-Neem product)
Reason for yield gap	:	-Poor nutrient management -Fruit borer and wilt incidence

Total budget -Rs. 19,660



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 2

Number of Farmers - 10

Title	:	Popularization of Arka Vijay high yielding variety in French Bean
Thrust area	:	HYV / Hybrids
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	Cultivation of Arka vijay variety
Reason for yield gap	:	Use of Local varieties

Total budget -Rs. 11,000



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 2

Number of Farmers- 10

Title	:	Integrated Pest Management in Cabbage
Thrust area	:	IPM
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	Mustard as a trap crop Bt spray @1 ml /lit at 10 days after sowing Indoxicarb 0.5 ml/lit Neem soap spray @10 g/lit Pongamia soap @10g /lit
Reason for yield gap	:	DBM pest

Total budget-Rs. 4,458



FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Numbers – 5 No,s

Number of Farmers - 5

Title	:	Enrichment of dry fodder
Thrust area	:	Nutritious feed
Season of the Demonstration	:	<i>Rabi</i>
Technology to be demonstrated	:	Enrichment of dry fodder 100kg Jaggery- 5kg Urea -2 kg Salt -1kg Minerial mixture -1kg /lit
Reason for yield gap	:	Dry feed with low nutritive value

Total budget- Rs. 400

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Number – 5 No,s

Number of Farmers- 5

Title	:	Safe storage method for pulses
Thrust area	:	Post harvest technology (Redgram)
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	Safe storage of pulses -25 hours drying on concrete threshing yard for 5 days -Storing redgram seeds in a bucket -Spreading 3cm depth medium fine sand on seeds -Covering with lid
Reason for yield gap	:	Improper drying of seeds -Improper use of storage methods -Unaware about safe storage technology

Total budget-Rs. 3,000

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 10

Number of Farmers- 25

Title	:	ICM in Groundnut
Thrust area	:	Integrated crop management in groundnut
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	<ul style="list-style-type: none"> -Variety: GPBD-4/Chintamani-2- 100 kg/ha -RDF: 25: 50: 25 NPK kg/ha(Based on STCR)- -FYM: 7.5 ton/ha- -Seed treatment with <i>Trichoderma</i> @4gm/kg and <i>Rhizobium</i> @375gm/ha- -Soil drenching with chloropyriphos @ 1.5 lit/ha---- - Intercropping with Redgram(4:1)- -Gypsum application @ 500 kg/ha
Reason for yield gap	:	<ul style="list-style-type: none"> -Imbalanced fertilizers & Non use of gypsum -No seed treatment & Poor soil moisture conservation -Less seed rate - RHCP, leaf miner, bud necrosis, Tikka leafspot, collar rot

Total budget-Rs. 59,150

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 2

Number of Farmers- 10

Title	:	Soil test based fertilizer application in Sunflower
Thrust area	:	Nutrient Management
Season of the Demonstration	:	Rabi
Technology to be demonstrated	:	-Hybrid:KBSH-53 -Balanced application of fertilizer(NPK) based soil test value for targeted yield.
Reason for yield gap	:	-Imbalanced fertilizers application, Low soil fertility

Total budget -Rs. 8,068

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 10

Number of Farmers- 10

Title	:	ICM in Redgram
Thrust area	:	Yield maximization in Redgram
Season of the Demonstration	:	<i>Rabi</i>
Technology to be demonstrated	:	-Variety: BRG-1- IPM measures: Cultural: Deep ploughing to expose immature stages of pests Use of pheromone traps Biological: NPV @ 250 LE/ha Chemical :Indoxicarb @ 0.5ml/lit
Reason for yield gap	:	-Use of local seeds (own seeds)-Seed treatment ,Pod borer, mites, Sterility mosaic, wilt)-Lack of awareness on use of pheromone traps and NPV

Total budget-Rs. 23,020

FRONT LINE DEMONSTRATION 2010-11 –TUMKUR -A

Area (ha) – 20

Number of Farmers- 50

Title	: ICM Cotton
Thrust area	: Integrated crop Management
Season of the Demonstration	: Rabi
Technology to be demonstrated	: Integrated crop management in Bt cotton
Reason for yield gap	: -Application of imbalanced fertilizers (No basal dose application) Improper spacing(75-90X45-60 cm) Square & boll dropping Incidence of sucking pests

Total budget-Rs. 85,000

Plan for training programmes

2010-11

Plan For Training Programmes For Extension Functionaries During 2010-11

Crop / Enterprise	Organization	Training Course Title	No. of Courses
Ragi & Groundnut	Dept. of Agriculture	ICM in Ragi	01
Arecanut	Dept. of Horticulture	IDM in Arecanut	01
Banana	Dept. of Horticulture	Recent advances in Cultivation of Banana	01
Tomato	Dept. of Horticulture	Use of Bio Fertilizers in Tomato	01
Redgram	Dept. of Agriculture	Integrated Pest Management	01
Value addition	Dept of Women and Child Welfare	Enrichment and popularization of low cost nutritious foods	01
Nutritional Education	Dept of Women and Child Welfare	Women and child care	01
Dairy	Dept. of Animal Science	Production and feeding methods of Azolla milch animals to improve the milk production and health	01
TOTAL			08

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

Crop / Enterprise	Training title*	No. of programmes and Duration (days)	Skill to be transferred
Mushroom	Mushroom cultivation	2 (3 days)	Media preparation and inoculation
Fruit crops	Propagation techniques in Horticultural crops	1 (7 days)	Grafting, Budding
Composting	Vermicomposting	1 (7 days)	Production of Vermicompost and Vermiwash
Value addition	Preparation of value added products	2 (3 days)	Blending techniques
Bio Pesticide	Production of Neem based products	1(3 days)	Neem Soap, Neem Powder, neem Oil, NSKE,etc.
Vegetables	Improved Seed Production Practices in Vegetables	1 (7 days)	Emasculation, Pollination, Roughing
Home science	Making of Agarbatti, Candle, Phenyl , Soap Powder	1 (5days)	Products Preparation

Plan of training programmes for farmers/farm women during 2010-11

Crop / Enterprise	Major problem	Training Course Title*	No. of Courses
Paddy	<ul style="list-style-type: none"> • Poor nutrition • Blast disease • Saline soil • Low yield 	<ul style="list-style-type: none"> • Nutrient Management in Paddy • IPDM in Paddy • Saline soil Management 	<p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p>
Ragi	<ul style="list-style-type: none"> • Monocropping Imbalanced nutrient, Low yield 	<ul style="list-style-type: none"> • Improved production practices in Ragi • Importance of double cropping system 	<p style="text-align: center;">2</p> <p style="text-align: center;">1</p>
Maize	<ul style="list-style-type: none"> • Nutrient deficiency • Pest Problem 	<ul style="list-style-type: none"> • Nutrient Management in Maize • Pest Management in Maize 	<p style="text-align: center;">1</p> <p style="text-align: center;">1</p>
Groundnut	<ul style="list-style-type: none"> • Low productivity • Tikka disease • Collar rot • Rot grub 	<ul style="list-style-type: none"> • IDM in ground nut • Production practices in Groundnut • Time and method of gypsum application 	<p style="text-align: center;">1</p> <p style="text-align: center;">2</p> <p style="text-align: center;">1</p>
Sunflower	<ul style="list-style-type: none"> • Bud necrosis • Low productivity 	<ul style="list-style-type: none"> • Nutrient management in sunflower • IDM in sunflower 	<p style="text-align: center;">1</p> <p style="text-align: center;">1</p>
Red gram	<ul style="list-style-type: none"> • Sterility mosaic • Pod borer, Low yield 	<ul style="list-style-type: none"> • Improved production techniques • Intercropping system in Redgram • IPM in Redgram 	<p style="text-align: center;">1</p> <p style="text-align: center;">1</p> <p style="text-align: center;">1</p>
Cotton	<ul style="list-style-type: none"> • Flower dropping • Leaf reddening, Sucking pests 	<ul style="list-style-type: none"> • Production practices in cotton • IPM in cotton 	<p style="text-align: center;">2</p> <p style="text-align: center;">1</p>

Crop / Enterprise	Major problem	Training Course Title*	No. of Courses
Mango	<ul style="list-style-type: none"> ● Monocropping, Flower and fruit dropping ● Fruit fly, Powdery mildew 	<ul style="list-style-type: none"> ● Production technologies in mango ● IDM in mango 	2 1
Banana	<ul style="list-style-type: none"> ● Poor management practices ● Poor bunch weight ● Pest and disease problems 	<ul style="list-style-type: none"> ● Production practices ● INM in Banana ● IPDM in Banana 	1 1 1
Arecanut	<ul style="list-style-type: none"> ● Poor management of orchard ● Imbalance nutrient application ● Anaberoga & Bud rot ● Nut splitting 	<ul style="list-style-type: none"> ● Integrated crop management ● Method of soil sampling ● Pest and disease management 	2 1 2
Pomegranate	<ul style="list-style-type: none"> ● Poor management orchards ● Bacterial blight 	<ul style="list-style-type: none"> ● Pruning and training methods ● Integrated management in Bacterial blight 	1 1
Tomato	<ul style="list-style-type: none"> ● Local varieties ● Low seed availability ● Pest mgmt. 	<ul style="list-style-type: none"> ● Seed production ● Production technology. ● Plant protection ● Nutrient management. 	1 1 1 1
Brinjal	<ul style="list-style-type: none"> ● Shoot & Fruit Borer ● Bacterial wilt 	<ul style="list-style-type: none"> ● Improved HYV in brinjal ● IPM in brinjal ● Seed production techniques 	1 1 1
Dolichos	<ul style="list-style-type: none"> ● Local varieties 	<ul style="list-style-type: none"> ● Seed production techniques 	2
French bean	<ul style="list-style-type: none"> ● Rust disease ● Low yield 	<ul style="list-style-type: none"> ● Improved cultivation practices 	2
Cabbage	<ul style="list-style-type: none"> ● DBM 	<ul style="list-style-type: none"> ● IPM cabbage 	2

Crop / Enterprise	Major problem	Training Course Title*	No. of Courses
Aster, Marigold	<ul style="list-style-type: none"> ● Smaller flower size ● Dull colour ● Low Yield 	● Improved Cultivation Practices	2
Nutrition Garden	● Mal Nutrition	● Importance of Kitchen Garden	2
Ground Nut Decorticator	● Drudgery	● Drudgery reducing equipments	2
Azolla	● Low Milk yield	● Azolla alternate feed for milching animals	1
Fodder	<ul style="list-style-type: none"> ● Low yield ● Non availability of green fodder 	● Production technologies in fodder crops	1
Vermicomposting	● Non utilization of farm waste	● Importance and role of vermi compost in organic farming	2
Mushroom cultivation	● Non utilization of farm wastes	● Importance and role of Mushroom cultivation	3
Value addition	● Under utilization	<ul style="list-style-type: none"> ● Preparation of Jam, sauce , pickle etc., ● Value added products of Ragi ● Value added products of Amla 	2 2 2
TOTAL			65

Plan for sponsored training programme during 2010-11

Crop/ Enterprise	Training course title*	No. of Courses	Sponsored Agency
Processing	Entrepreneurship development programmes	2	NABARD
Value added products of Amla	Entrepreneurship development programmes	5	KAMPA, Bangalore

Details of Extension programmes planned for 2010-11

Month	Extension activity*	Its relation to KVK activities (Tables 2 to 6)**	Expected category of participants
Apr, 10	Group meeting/Training/Method demonstrations	FLD / OFT/Off Campus and On campus training	140
May, 10	Group meeting/Training/Method demonstrations	FLD / OFT/Off Campus and On campus training	120
June, 10	Group meeting/Training/Method demonstrations	FLD / OFT/Off Campus and On campus training	145
July, 10	Group meeting/Training/Method Demonstrations/Field visits	FLD / OFT/Off Campus and On campus training	160
August, 10	Field visit/ Training	FLD/OFT/ problematic field visits	125
Sept, 10	Group meeting/Training/Method Demonstrations/Field visits/Field day	FLD / OFT/Off Campus and On campus training/ Field days	145

Details of Extension programmes planned for 2010-11

Month	Extension activity*	Its relation to KVK activities (Tables 2 to 6)**	Expected category of participants
October, 10	Group meeting/Training,/Method Demonstrations/Field visits/Exhibitions/Field day,	FLD / OFT/Off Campus and On campus training/ Field days	180
November, 10	Training / Method Demonstrations/Field visits/ /Field day/ Women in agriculture	FLD / OFT/Off Campus and On campus training/ Seminar	160
December, 10	Training/Method Demonstrations/Field visits/Exhibitions/ Seminar	FLD / OFT/Off Campus and On campus training	175
January, 11	Training/ Method Demonstrations/ Field visits/	FLD / Off Campus and On campus training	120
February, 11	Group meeting/Training/ /Field visits/Exhibitions	FLD/Off Campus and On campus training	85
March, 11	Group meeting/Training/ /Field visits/Exhibitions/seminars	Off Campus and On campus training	125

Details of print & electronic media coverage planned for 2010-11

Sl. No.	Nature of literature/publications	No. of copies
1.	Leaf lets/folders	17
2.	Technical Bulletins	05
3.	News paper articles	15
4.	Books	03
5.	Radio talks	07
6.	TV courage	02

Nature of collaborative activities planned for 2010-11

Thrust area	Collaborative Organizations	Nature of activities*	No. of Activities
Crop productivity Seed production activities in vegetables, INM & IPM in vegetables and field crops	KSDA / NGOs / DOH/SHGs	Training / Field visits, Group meetings , Trainings, Demonstrations, Publication/Field day	02
Seed production activities in pulses	NGO- ORDER/ NABARD	Training / Field visits, Group meetings Trainings, Demonstrations & Publication	15
Poor nutrient management	KSDA/DOH/ NGOs	Field visits, Trainings, Demonstrations	02
Post harvest techniques	Dept. of Horti	Post harvest technology through Trainings, Seminars	02
IGA to farmers families	Dept. of women and child development	IGAs on Soap powder & phenyl making demon / training on value addition to cereals, pulses, vegetables and fruits.	02

Financial status of revolving fund and plan for its utilization

Opening balance as on 01.04.2009	Expenditure incurred during 2009-10	Receipts during 2009-10	Closing balance as on 31.03.2010	Proposed expenditure during 2010-11	Proposed receipts during 2010-11
1,00,000	33,751	1,00,000	1,66,249	1,66,249	7,77,700

Physical status of revolving fund and plan for its utilization

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
Arecanut seedlings	25,000	-	25,000	50,000	500

Plan for utilization of Revolving Fund (2010-11)

Amount to be invested (Rs.)	Purpose	Expected production	Approximate value of the produce
Seed / seedlings production			
50,000	Bhendi -Arka Anamika	8 qt	160000
5000	Aster	5 kg	20000
10000	Arecanut seedlings	30,000 Nos.	300000
4000	Drumstick seedlings	2000 Nos	10000
5000	Coconut seedlings	500 Nos	12200
5000	Mango seedlings	500 Nos	15000
25000	Hybrid chilli	5 kg	100000
40000	Hybrid Tomato	5 kg	100000
6000	French bean	4 qt	40000
Other products			
10000	Neem and pongamia soap	100 kg	12500
6000	Ragi malt	130 kg	8000
1,66,000		TOTAL	7,77,700

Activities planned for production and supply of Seeds during 2010-11

Sl. No	Seeds/Planting material /Bio-agent	Name of the public-private partnership arranged	Quantity of output expected (Qtl)
1.	Hybrid paddy KRH-2	Seed growers to KSSC	40
2.	Redgram BRG-2	Seed growers to KSSC	90
3.	Bhendi Arka Anamika	Seed growers to IIHR	6
4.	Ragi	Seed growers to KSSC	60
5.	French Bean – Arka Suvidha	Seed growers to IIHR	25
6.	Groundnut GPBD-4	Seed growers to KSSC	125
7.	Tomato -Arka Meghali	Seed growers to IIHR	0.5

**National Horticulture Mission (NHM) activities in
district in collaboration with department of horticulture**

Projects

Sl. No	Particulars	Cost (Rs.)
1.	Management of nursery in medicinal crops	4.0 lakhs

Training Programme

Sl. No	Title of training	Cost (Rs.)
1	Post harvest Technology in fruits and vegetable crops	4 Days
2	Vegetable seed production activities	4 days

Type of Scientist-Farmer linkages are proposed by your KVK for 2010-11

One to one linkage :

Seed production technique in vegetables /field crops

One Scientist to group of farmers/farmwomen:

Conducting training programmes, method demonstration

Group of Scientists to group of farmers/farmwomen :

Seminars, Field days, Field visits etc.,

Details of budget utilization (2009-10)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	160000	160000	1161087
2	Traveling allowances	50000	50000	59020
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	100000	100000	100000
B	POL, repair of vehicles, tractor and equipments	100000	100000	95007
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	40000	40000	26600
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	50000	50000	50000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	20000	20000	-
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	10000	10000	-
G	Training of extension functionaries	10000	10000	-
H	Maintenance of buildings	50000	50000	49966
I	Extension Activities	10000	10000	9767
J	Establishment of Soil, Plant & Water Testing Laboratory			
K	Library	10000	10000	9863
TOTAL (A)		2050000	2050000	1561310

Particulars	Sanctioned	Released	Expenditure
B. Non-Recurring Contingencies			
Works			
Equipments including SWTL & Furniture	260000	260000	193868
Vehicle (Four wheeler/Two wheeler, please specify)			
Jeep Bolero			124306
Two Wheeler (2 no.s) +Power tiller	250000	250000	98683
Library (Purchase of assets like books & journals)			
TOTAL (B)	510000	510000	416857
C. REVOLVING FUND	100000	100000	33366
GRAND TOTAL (A+B+C)	2660000	2660000	2011533

Details of budget Estimate (2010-11)

S. No.	Particulars	Proposed
A. Recurring Contingencies		
1	Pay & Allowances	50,00,000
2	Traveling allowances	5,00,000
3	Contingencies	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2,00,000
B	POL, repair of vehicles, tractor and equipments	4,00,000
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1,50,000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	1,00,000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	1,35,910
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	1,17,831
G	Training of extension functionaries	25,000
H	Maintenance of buildings	3,00,000
I	Establishment of Soil, Plant & Water Testing Laboratory	22,50,000
J	Library	10,000
TOTAL (A)		88,88,131

Contd..

Particulars	Proposed
B. Non-Recurring Contingencies	
Works	
Equipments including SWTL & Furniture	
Vehicle (Four wheeler/Two wheeler, please specify)	-
Library (Purchase of assets like books & journals)	10,000
TOTAL (B)	10,000
C. REVOLVING FUND	-
GRAND TOTAL (A+B+C)	88,98,131

Targets for E-linkage activities for 2010 - 11

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

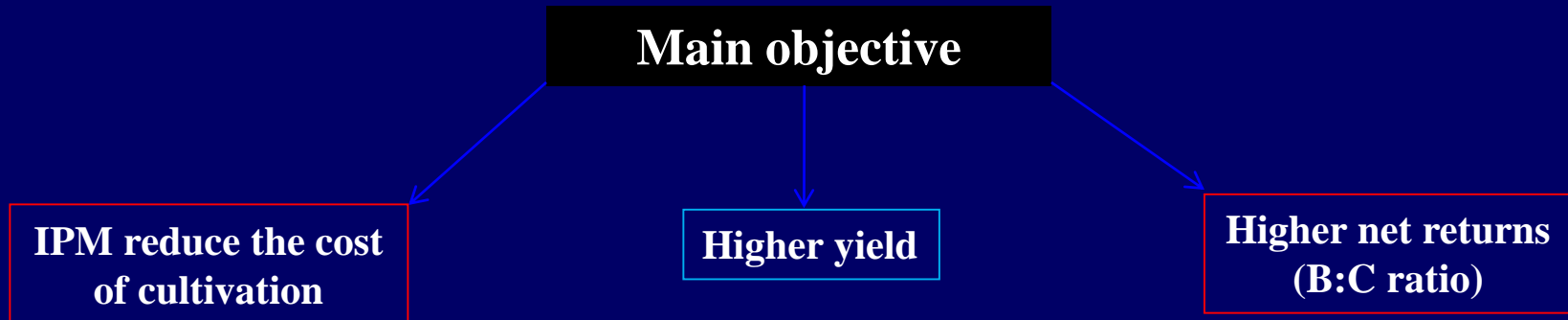
Details of activities planned, other than those listed above

- ❖ **Staff research projects/Ad-hoch projects**
- ❖ **Participating in departmental Bi-monthly workshop by master trainers**
- ❖ **Consultancy & Documentation of ITK**
- ❖ **Survey and collection of local variety seed**
- ❖ **Documentation of Achievements of progressive farmers/farmwomen**
- ❖ **Mobilization of farmers for seminar/field day/workshop**

Farmers Field School (FFS)

Title of FFS: Integrated Pest Management (IPM) in Tomato

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 pest and disease management, time of transplanting, poor agronomic practices (Weeding, water management, earthing up & staking).



Scientific rationale

Farmers are switching over to the other vegetables mainly due to pest and diseases and low price during peak harvesting time. Through FFS the identified problems will be tackled to effect the net returns.

Learning process

- ◆Tomato growers/farmers will learn about the IPM approaches by actively involving from Plough to Plate.**
- ◆The participants will be divided into 4-5 groups. Each group will take IPM technology, conduct Agro Ecological Situation of the Area (AESAs), to take up measurement/observation of plant height, No. of fruits/plant, incidence of pest and disease in IPM plots and farmers practice plots**

Budget

Particulars	Amount (Rs.)
1. Seeds (3 packets)	1000-00
2. IPM measures	
Marigold seeds – 100 gm (Trap crop)	100-00
Imidacloprid (0.3 ml/l) – 200 ml (White fly)	350-00
Neem cake – 50 kg (Fruit borer)	500-00
Triazophos (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
3. FFS kit	1500-00
4. Stationeries	900-00
5. Caps and Bags	3000-00
6. Refreshment	4000-00
7. Field day	1000-00
8. Publication	5000-00
9. POL	3600-00
10. Exposure visit for FFS farmers	3000-00
Total	25,000.00

THANK YOU