

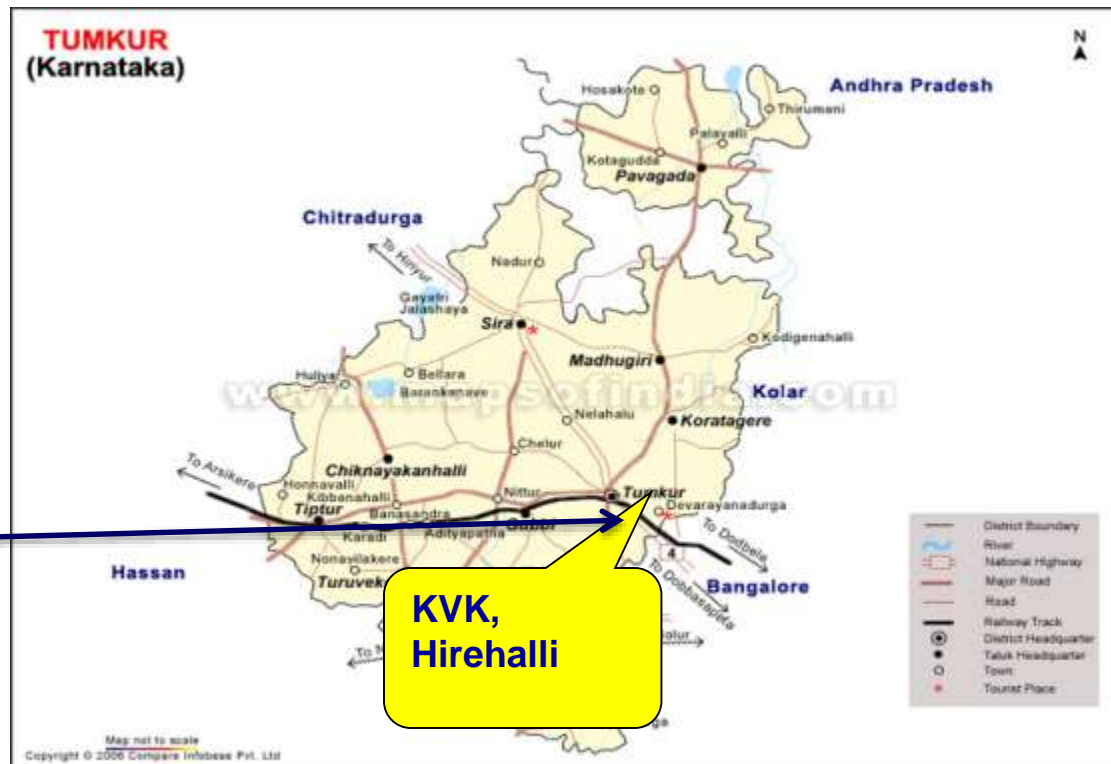
# Welcome



**Action Plan Meet :2014-15**

**KVK, Hirehalli TUMKUR A**







© 2011 Google  
Image © 2011 DigitalGlobe

Google earth

Imagery Date: 3/30/2011 2011

13°16'40.58" N 77°11'12.67" E elev. 2790 ft

Eye alt. 6945 ft

# Name of the KVK (District): KVK, Hirehalli, Tumkur-A

## District Features

Agro-climatic zone(s) names	Zone 4 & 5 Central and Eastern - Dry Zone
No. of Taluks	10 (05 Mandate of Tumkur A)
No. of Villages	1340
No. of Holdings	209501
Gross cropped area (Ha)	283138
Area under irrigation (%)	26.6%
Sources of irrigation	Canals, Tanks, Wells and Tube Wells
Major Soil Types	Red sandy and Black soils
Major crops in Kharif	Ragi, Paddy, Maize, Groundnut, Redgram
Major crops in Rabi	Ragi, Groundnut,
Major perennial crops	Arecanut, Coconut, Mango, Banana, Sapota, Pomogranate & Tamarind
Major Livestock details	Cattle, Buffalo, Sheep, Goat, Pigs, Poultry



# KVK,Hirehalli,Tumkur-A

## KVK Manpower and facilities

**No. of SMS in position**

**6**

**No. of Prog. Assistants in position**

**3**

**KVK Farm details**

**Total Area (Ha)**

**27.2**

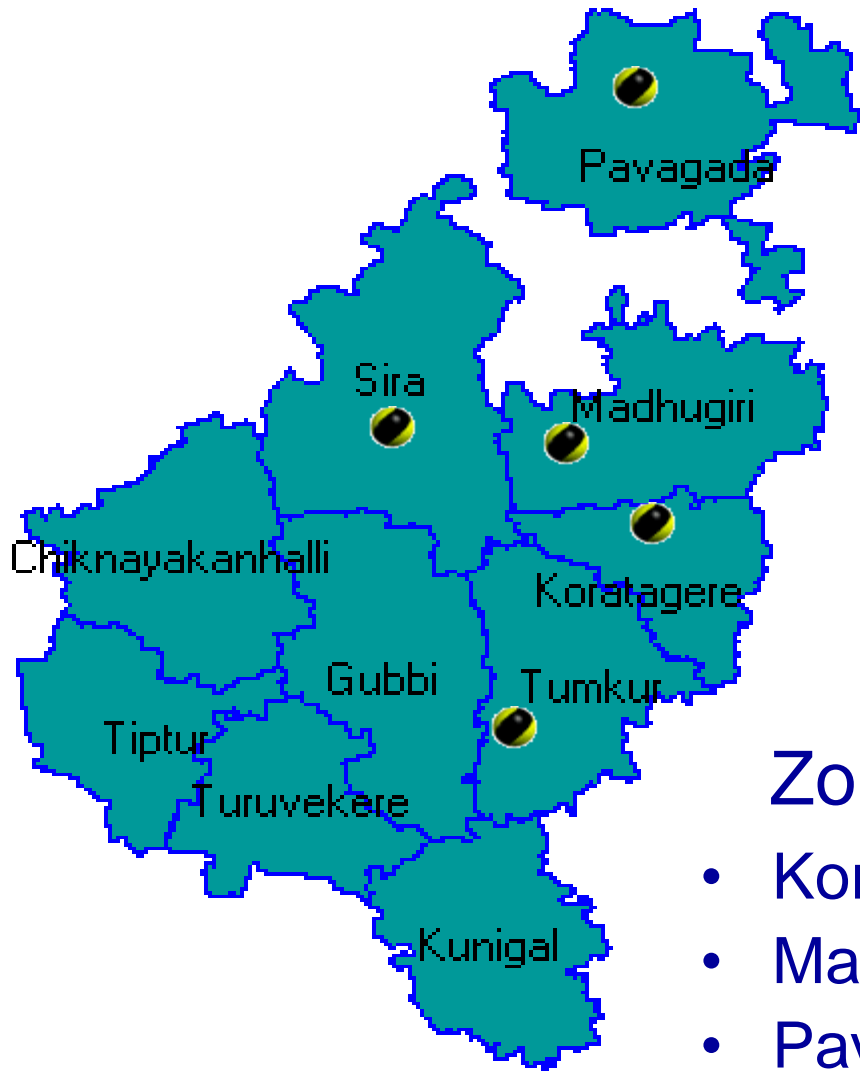
**Cultivated area (Ha)**

**27.2**

# PLAN OF WORK

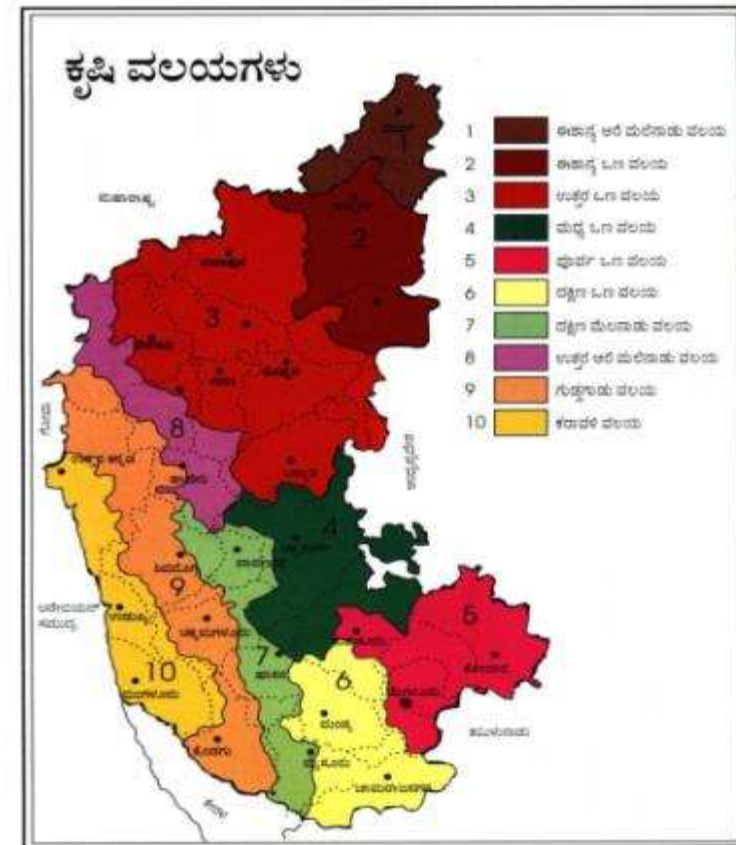
## Operational Area Details

# JURISDICTION OF KVK, Hirehalli



## Zone - 4

- Koratagere
- Madugiri
- Pavagada
- Sira



## Zone - 5

- Tumkur

# Operational Area

Name of Taluk	Cluster Villages selected
Tumkur	Haraluru, Belagumba, Yallapura, urdigere, Belibattalu, Vadderahalli
Korategere	D.Naganahalli, Hosapalya, Baichenahalli, Vadderahalli,, Kolala
Madhugiri	Hanumathapura, Midigeshi, Jangainapalya, Nagalapura
Pavagada	Arasikere, Mangalavad, Madde, Byagelur,
Sira	Kataveeranahalli, Balenahalli, Kallambela, Anupanahalli Sakshihalli, Kumbarahalli,Ganadahunase



Sl. No.	Demo Units details
---------	--------------------

1	Modern Water Storage Tank (German Technology)
---	---

2	Bore Well recharge Unit
---	-------------------------

3	Minor Fruits Collection Block
---	-------------------------------

4	Areca nut Plantation Unit
---	---------------------------

5	Flowering & Foliage Tree Demonstration Plot
---	---

6	Ornamental Nursery Demo Unit
---	------------------------------

7	Small Equipments Demo Unit
---	----------------------------

8	Areca nut Plate Making Unit
---	-----------------------------

9	Avocado Demo Plot
---	-------------------

10	Fruit Crops Varietal Demonstration Cum Mother Block
----	---



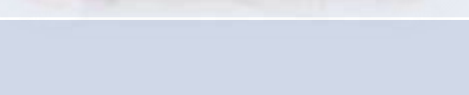





11	Multipurpose Tree Collection Block
----	------------------------------------

12	Areca nut Nursery Unit
----	------------------------

13	Medicinal Plant Demonstration Plot
----	------------------------------------

14	Integrated Farming System Block
----	---------------------------------



Sl. No.	Demo Units details	Image
15	Medicinal Crop Seedlings Production Nursery	
16	Mist House Unit	
17	Multi Media Unit (under establishmen	
18	Threshing Yard	
19	Farm Machinery Unit	
20	Fruit Crop Nursery Unit	
21	Shredding Cum Chipping Unit	
22	Automatic Weather Station Unit	
23	Areca nut Based Model Cropping System Unit	
24	Water Harvesting Cum Fish Pond Unit	
25	Protected Vegetable Production Demo Unit	
26	Protected Floriculture Demo Unit	
27	Integrated Farming System Block	



Sl. No.

## Demo Units details

28 Tuberose Varietal Collection Cum Bulb Production Unit

29 Drum Stick Seed Production Demo Unit

30 Precision Farming Demo Unit ( Under Establishment )

31 Centralized Irrigation System

32 Betel vine Varietal Collection Unit

33 Areca nut Varietal Collection

34 Coconut Varietal Collection Unit

35 Hirehalli Dwarf Areca nut Demo Block

36 Bio-digester Unit ( Under Establishment )

37 Mushroom Demo Unit



## Laboratories details

1. Leaf Tissue Analysis Lab

2. Plant Health Clinic Lab

## Production Units

1. Micronutrient Production Unit

2. Bio Pesticides Production Unit

3. Food Processing & Value addition Unit

4. Bio control Production Unit

5. Vermi- Compost Production Unit

6. Compost Production Unit

7. Vegetable Seed Production Unit

8. Mushroom Spawn Production Unit

9. Fish pond Unit

10. Hybrid Vegetable Seed Production Unit

11. Papaya Seed Production Unit



# PRIORITIZED PROBLEMS AND THRUST AREAS



Major crops	Problems Identified	Major thrust areas
Paddy	Water Scarcity and low yield	<b>Water Management</b>
Ragi	Drought, Use of local varieties and low yield. Lack of knowledge on Processing, value addition and branding of Ragi products	<b>Drought management, Processing and Value addition</b>
Red gram	Old variety with low yield, Delayed Monsoon and Pod borer and sterile mosaic disease in red gram.	<b>New variety, Water Management and IPM</b>
Groundnut	Old variety with low yield Tikka Disease , leaf minor, low income	<b>New variety, IDM</b>



# PRIORITIZED PROBLEMS AND THRUST AREAS



<b>Crops/ Livestock</b>	<b>Problems Identified</b>	<b>Major thrust areas</b>
Tomato	Poor Soil and Nutrient Management, Water scarcity, susceptible variety Low keeping quality	<b>INM, Water Management IDM and Processing</b>
Brinjal	Bacterial wilt and Shoot & fruit Borer in Brinjal	<b>IPDM</b>
Mango	Monocropping, Stem Borer Powdery mildew, Fruit fly and hoppers in Mango, lack of knowledge on PHT in mango.	<b>IPDM and PHT</b>

# PRIORITIZED PROBLEMS AND THRUST AREAS



<b>Crops/ Livestock</b>	<b>Problems Identified</b>	<b>Major thrust areas</b>
Banana	Low plant Density, poor nutrient management	ICM
Papaya	Old variety, Low fruit setting, flower dropping, Ringspot virus and low yield	HYV, INM and IDM
Areca nut	Monocropping, Low soil fertility, Anabe Roga & Nut splitting	INM and IDM
Pomegranate	Wilt & Bacterial Blight, Low yield	IDM

# PRIORITIZED PROBLEMS AND THRUST AREAS



<b>Crops/ Livestock</b>	<b>Problems Identified</b>	<b>Major thrust areas</b>
<b>French Bean</b>	Non availability of quality seed of improved varieties, Market price fluctuation if grown as vegetable	<b>Seed production and marketing</b>







# 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**
- **Drudgery reduction**
- **Income generating activities and Value addition**
- **Child and women care and balanced nutrition**

## Abstract of programmes planned for the year 2014-15



Technical Interventions	Numbers
OFT	04
FLD	17
FFS	01
Innovative Programme	01
IFS	05
NIFTD	25



# Technology Assessment



# 1. Assessment of Groundnut Varieties (Assessment) New

<b>Title of Technology</b>	:	Assessment of groundnut varieties
<b>Problem Definition</b>	:	Smaller pod size & Lower yield

## Technology options being assessed along with justification

<b>Technology Options</b>	<b>Details of technology</b>	<b>Source of Technology</b>	<b>Justification</b>
<b>TO 1 : Farmers Practice (FP)</b>	Use of TMV -2		TMV-2 is susceptible to foliar diseases and it is not preferred by the farmers / traders because of its smaller pod size and hence assessment of KCG -2
<b>TO 2: (Recommended package of practices) RPP</b>	GPBD - 4	UAS, Dharwad.	Uniform kernels, tolerant to foliar diseases and high yielding
<b>TO 3 :Alternate Practice</b>	KCG- 2	UAS, Bangalore	KCG - 2 is of bigger pod size, traders and farmers prefer, gives higher yield and tolerant to moisture stress



## Budget proposed for OFT : 1 ha

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	20 Kg	50	1000	Seeds	25 Kg	50	1250
	Total			1000	Total			1250

**Total budget required : Rs. 6750**

**Area : 1ha    No. of trials : 03**

**Parameters to be recorded** : No of pods /plant, Incidence of foliar disease, Test seed weight, Yield

## 2: Arecanut – French Bean (Assessment) - 2<sup>nd</sup> year

<b>Title of Technology</b>	:	<b>Assessment of Arecanut -French bean intercropping system for high soil fertility and higher income</b>
<b>Problem Definition</b>	:	<b>Inefficient use of land, weed menace, low soil fertility, lower income</b>

### Technology options being assessed along with justification

<b>Technology Options</b>	<b>Details of technology</b>	<b>Source of Technology</b>	<b>Justification</b>
<b>TO 1 : FP</b>	<b>Mono cropping</b>	<b>FP</b>	<b>No additional returns.</b>
<b>TO 2: RPP</b>	<b>Areca nut + Vegetable cowpea ( 0.8 ha)</b>	<b>UAS, Bangalore</b>	<ul style="list-style-type: none"> <li>•Low income</li> <li>•Less biomass production</li> </ul>
<b>TO 3 : Alternate Practice</b>	<b>Areca nut + French bean ( Arka Suvidha) (0.8 ha)</b>	<b>CPCRI /CHES Hirehalli</b>	<b>More bio mass production and more income per unit area and increases the organic carbon content</b>

**Season : Rabi / Summer**



## Initial Soil test report

Farmer Name	Soil PH	% Organic carbon	Available N (mg/kg)	Available Phosphorus (mg/kg)	Available Potassium (mg/kg)
Shri. Kumar	6.8	0.32	85	9.12	56

Intercrop in Arecanut	Avg Yield (t/ha)	B:C ratio
TO1 (FP)	-	-
TO 2 Vegetable cowpea	4.8	2.3
TO 3 French bean	6.3	3.02



**Parameters to be recorded** : No of pods /plant, Green Pod yield/plant , Nutrient status, Yield ( t/ha)

## Budget proposed for OFT

<b>Impt. critical inputs</b>	<b>Technological options</b>	<b>Details of inputs</b>	<b>Rs./Qty</b>	<b>Total</b>
	<b>To1: Arecanut sole cropping</b>	<b>Soil sample analysis- 2 Nos.(Before &amp; after implementation.)</b>	<b>100/ sample</b>	<b>200</b>
	<b>To2: Arecanut + Cowpea (0.8ha)</b>	<b>Cowpea- 12kg</b>	<b>Rs. 150/kg</b>	<b>1800</b>
		<b>Soil sample analysis- 8 Nos.</b>	<b>100/ sample</b>	<b>800</b>
	<b>To3: Arecanut + French beans (0.8ha)</b>	<b>French beans- 48kg</b>	<b>Rs. 150/kg</b>	<b>7200</b>
		<b>Soil sample analysis- 8Nos.</b>	<b>100 /sample</b>	<b>800</b>
				<b>10800</b>
<b>Cost of critical inputs</b>	<b>10800</b>			

**Area: 1.6 ha**



### 3 : MANGO (Assessment ) - 2<sup>nd</sup> year

<b>Title of Technology</b>	:	Assessment of Redgram-Greengram (1:4) as a intercrop in Mango orchard for climate resilient agriculture
<b>Problem Definition</b>	:	Low soil fertility, more weeds infestation and Lower income

#### Technology options being assessed along with justification

<b>Technology Options</b>	<b>Details of technology</b>	<b>Source of Technology</b>	<b>Justification</b>
<b>TO 1 : FP</b>	Solo cropping	-	-
<b>TO 2: RPP</b>	Mango + Horse gram	UAS, Bangalore	Growing Horse gram as inter crop in mango will not give more income and weeds will not be controlled effectively
<b>TO 3 : Alternate Practice</b>	Mango + Red gram - Green gram (1:4)	IIHR Bangalore	More bio mass production and more income per unit area and increases the soil organic content

## Initial Soil test report

Farmer Name	Soil PH	% Organic carbon	Available N(mg/kg)	Available Phosphorus (mg/kg)	Available Potassium (mg/kg)
Shri. Laxmi Narayan	6.5	0.36	58.3	5.9	55

Intercrop in Mango	Avg Yield (qt./ha)	B:C Ratio
TO1 (FP)	-	
TO 2 Horse gram	6.2	1.8
TO 3 Red gram +Green gram (1:4)	1.5 +7.4	2.6



Farmers Practice



Redgram + Green gram (1:4)



## Budget proposed for OFT

Sl. No.	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology Options 3				
	Name	Qty. / unit	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty. / unit	Unit Cost (Rs.)	Total Cost (Rs.)	
1.	Horse gram Seeds	4 Kg	100	400	Red gram	2 Kg	90	180	
					Green gram	20 kg	100	2000	
	Soil sample	8 sample	100	800	Soil sample	8 sample	100/sample	800	
<b>Total</b>				<b>1200</b>	<b>Total</b>				<b>2980</b>

**Total budget required**

**: Rs. 4180/-**

**Parameters to be recorded :** Grain yield /plant, Nutrient status , Yield q/ha)

## 4 : Pomegranate (Assessment ) - New OFT

<b>Title of Technology</b>	:	Evaluation of technology for management of Pomegranate wilt
<b>Problem Definition</b>	:	Wilt problem, Bacterial blight

### Technology options being assessed along with justification

<b>Technology Options</b>	<b>Details of technology</b>	<b>Source of Technology</b>	<b>Justification</b>
<b>TO 1 : FP</b>	Application of FYM & Neem cake	-	-
<b>TO 2: RPP</b>	Drenching with Mancozeb @ 2gm/litre at 20 days interval.(20 litres of spray solution /plant)	UAS B	Not effective for the control of wilt and higher cost.
<b>TO 3 : Alternate Practice</b>	Application of Actinobacteria consortium @20g/lt at 15 days intervals (5 times )	IIHR	Low cost, very effective and helpful for higher uptake of nutrients and higher yield.

**Parameters to be recorded :Soil micro flora, % wilt Yield parameters & yield**

## Budget proposed for OFT

Sl. No.	Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for other technology Options 3				
	Name	Qty. / unit	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty. / unit	Unit Cost (Rs.)	Total Cost (Rs.)	
1.	Mancozeb	2 Kgs	1200	1200	Actinobacteria	10 Kg	150.00	1500	
<b>Total</b>				<b>1200</b>	<b>Total</b>				<b>1500</b>

**No. of Trials:03**

**Total budget required : Rs. 8100/-**





# Front Line Demonstration



# 1. Combating drought vulnerability by Aerobic paddy cultivation

<b>Title</b>	:	<b>Aerobic paddy cultivation</b>
<b>Thrust area</b>	:	<b>Sustainability in yield through effective water management in rice ( Aerobic method)</b>
<b>Season of the Demonstration</b>	:	<b>Kharif</b>
<b>Technology to be demonstrated</b>	:	<b>Direct sowing MAS-26</b> Along with POP (25X25 cm spacing) FYM: 10 ton/ha 100:50:50 NPK Kg/ha, Use of cono weeder & Lesser water requirement ( 30-40% less)
<b>Reason for yield gap</b>	:	<b>Lower water use efficiency</b>



Critical inputs to be provided	Area (ha)	No. of farmers
- Seed rate 7kg/ha MAS-26	02	10

Total budget - Rs 1000

# Results

Particulars	No of tillers /plant	Yield ( q/ha)	% Increase	B:C ratio
Demonstration	48	37.3	12.6	2.06
Check	26	33.1		1.38



**Aerobic Paddy FLD plot**



**Dr. Shyalaja Hittalamani , GPB UASB  
visited FLD plot**



## 2. Addressing Drought Vulnerability by Drought tolerant Ragi ML -365 - 2<sup>nd</sup> year

<b>Title</b>	:	<b>Addressing Drought Vulnerability by Drought tolerant Ragi ML -365</b>
<b>Thrust area</b>	:	<b>HYV</b>
<b>Season of the Demonstration</b>	:	<b>KHARIF</b>
<b>Technology to be demonstrated</b>	:	<b>Ragi ( ML-365)</b> Along with POP (RDF : 50:40:25 NPK kg/ha FYM : 7.5 t /ha Arka Microbial consortium @ 25 gm/ltr drenching Azospirillum @ 2 kg/ha, PSB @ 2 Kg/ha)
<b>Reason for yield gap</b>	:	<b>Delayed monsoon, long duration ragi ,Moisture stress, Use of low yielding varieties</b>

Critical inputs to be provided	Area (ha)	No. of farmers
Ragi -60kg Arka Microbial consortium - 60 kg /ha	5	10

**Total budget - Rs. 2500**



# Results

Particulars	Plant height (cm)	Panicle weight (g)	Yield ( q/ha)	% Increase	B:C ratio
Demonstration	105	28	24.3	29.95	1.71
Check	63	19	18.7		1.1



**ML 365 FLD plot**

# **FLD on Pulses crops**

### 3. Enhancement of Red gram yield through introduction of BRG-4 – New FLD

<b>Title</b>	:	<b>Enhancement of Red gram yield through introduction of BRG-4 variety</b>
<b>Thrust area</b>	:	<b>HYV</b>
<b>Season of the Demonstration</b>	:	<b>Kharif</b>
<b>Technology to be demonstrated</b>	:	<b>Variety: BRG-4</b>
<b>Reason for yield gap</b>	:	<b>Use of local variety, Pod borer</b>

<b>Critical inputs to be provided</b>	<b>Area (ha)</b>	<b>No. of farmers</b>
Seeds of Variety: BRG-4 (15kg /ha)	05	10



**Total budget Rs. 13500**

# **FLD on Vegetables crops**

## 4. Introduction of Arka Rakshak F1 hybrid in Tomato – New FLD

<b>Title</b>	:	<b>Introduction of Arka Rakshak F1 resistant to Leaf curl, Bacterial Wilt and Early leaf Blight in Tomato</b>
<b>Thrust Area</b>	:	<b>HYV / Hybrids</b>
<b>Season of the Demonstration</b>	:	<b>Rabi/Summer</b>
<b>Technology to be demonstrated</b>	:	<b>Cultivation of Arka Rakshak F1 Hybrid resistant to Leaf curl, Bacterial Wilt and Early leaf Blight in Tomato (Source – IIHR Bangalore)</b>
<b>Reason for yield gap</b>	:	<b>Disease of Bacterial wilt, leaf curl &amp; Low yield</b>

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Seeds 200gms</b>	<b>02</b>	<b>06</b>

**Total budget - Rs. 6000**

## 5. Arka Microbial consortium for tomato production - 2<sup>nd</sup> year

<b>Title</b>	:	<b>Arka Microbial consortium for tomato production</b>
<b>Thrust area</b>	:	<b>INM</b>
<b>Season of the Demonstration</b>	:	<b>Rabi</b>
<b>Technology to be demonstrated</b>	:	<b>Microbial consortium 25g/ltr drenching FYM 25 t/ha RDF 135:75: 60 NPK kg/ha +</b>
<b>Reason for yield gap</b>	:	<b>Low nutrient use efficiency and soil fertility</b>

<b>Critical inputs to be provided</b>	<b>Area (ha)</b>	<b>No. of farmers</b>
<b>Arka Microbial consortium 25 g/ltr drenching</b>	<b>2</b>	<b>10</b>

**Total budget- Rs. 4500**



# Results

Particulars	Seedling root length (cm)	Seedling height (cm)	Yield ( t/ha)	% Increase	B:C ratio
Demonstration	7.1	17.2	51.5	16.3	2.03
Check	4.9	13.4	44.3		1.4



**Application of Microbial consortium -FLD plot**



## 6. Seed production Technique in French bean Var. Arka Suvidha - 2<sup>nd</sup> year

<b>Title</b>	:	Seed production of French bean Var. Arka Suvidha
<b>Thrust area</b>	:	Sustainable Farm Income through Seed Production
<b>Season of the Demonstration</b>	:	Kharif / Rabi
<b>Technology to be demonstrated</b>	:	Arka Suvidha seeds – 65kg. Seed treatment with Trichoderma- 5g/kg Seed production package
<b>Reason for yield gap</b>	:	- Non availability of quality seed of improved varieties, Market price fluctuation if grown as vegetable



<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
Arka Suvidha-65kg Trichoderma-1 kg	02	10

**Total budget-Rs. 25000**

# 7. Use of Polythene mulch in tomato - 2<sup>nd</sup> year

<b>Title</b>	:	Demonstration of poly mulching technology in tomato production
<b>Thrust area</b>	:	ICM
<b>Season of the Demonstration</b>	:	Rabi
<b>Technology to be demonstrated</b>		Use of polythene mulch for mulching in tomato production
<b>Reason for yield gap</b>	:	Water scarcity, soil borne diseases and pest incidence and problem of weed menace in vegetables cultivation

Critical inputs to be provided	Area (ha) / Number	No. of farmers	Source
Polythene mulch (30mm micron )	01	05	IIHR

## Results

Parameters	Demo Plot	Check
<b>45 DAT at Main field</b>		
<b>Plant height (cm)</b>	<b>53.40</b>	<b>35.2</b>
<b>No. of branches</b>	<b>13.0</b>	<b>8.2</b>

**Total budget -Rs. 30000**



# Field view of FLD Poly mulch in tomato



## 8. Bio- intensive Management Brinjal Shoot and fruit borer - 2<sup>nd</sup> year

<b>Title</b>	:	<b>Bio- intensive Management Brinjal Shoot and fruit borer</b>
<b>Thrust area</b>	:	<b>IPM</b>
<b>Season of the Demonstration</b>	:	<b>Kharif</b>
<b>Technology to be demonstrated</b>		<b>Erection of pheromone trap @ 1 for 400 sq.m. ( Lure changed once in 21 days) Release of T.chilonis @ 50,000/ha Bt spray at peak flowering @1ml/L two times</b>
<b>Reason for yield gap</b>	:	<b>Severe incidence of fruit and shoot borer</b>

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Pheromone trap T.chilonis eggs &amp; Bt Formulation</b>	<b>05</b>	<b>10</b>



**Total budget -Rs.10500**

# Results of Previous year

Particulars	% shoot infestation	% fruit infestation	Yield ( Q/ha)	% Increase
Demonstration	4.89	12.65	28.36	<b>1.70</b>
Check	28.90	33.65	17.89	

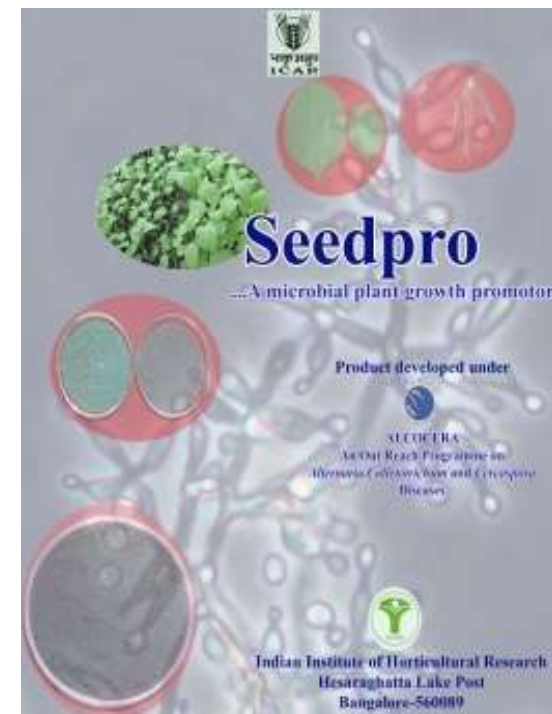


## 9. Seedpro for Soil Borne Pathogens - 2<sup>nd</sup> year

<b>Title</b>	:	<b>Popularization of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops</b>
<b>Thrust area</b>	:	<b>IDM</b>
<b>Season of the Demonstration</b>	:	<b>Summer</b>
<b>Technology to be demonstrated</b>	:	<b>Seed treatment with Seedpro at the rate of 50gms/kg</b>
<b>Reason for yield gap</b>	:	<b>Poor crop stand due to root rot and wilt</b>

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Seedpro</b>	<b>10</b>	<b>10</b>

**Total budget -Rs.2500**



# **FLD on Fruit crops**

# 10. Popularization of HYV Arka Prabhat in Papaya

2<sup>nd</sup> year

<b>Title</b>	:	<b>Popularization of High yielding variety Arka Prabhat in Papaya</b>
<b>Thrust area</b>	:	<b>HYV</b>
<b>Season of the Demonstration</b>	:	<b>Kharif /Rabi</b>
<b>Technology to be demonstrated</b>	:	<b>High yielding Papaya Variety Arka Prabhath, T.S.S-12-14 ,Yield -100 Kg/Plant . (Source : IIHR, Bangalore)</b>
<b>Reason for yield gap</b>	:	<b>Low yielding varieties, Low T. S.S.</b>

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Papaya seedlings</b>	<b>01</b>	<b>05</b>



**Total budget-Rs. 18000**



## Results

Parameters	Demo Plot	Check
<b>7 months after transplanting</b>		
<b>No of Fruits</b>	<b>35</b>	<b>22</b>
<b>Fruit Weight (kg)</b>	<b>1.4</b>	<b>2.2</b>



**Arka Prabath FLD Plot**

# 11. Introduction of Dry land Horticulture crop - Jamoon – 2<sup>nd</sup> year

<b>Title</b>	: Introduction of Dry land Horticulture crop - Jamoon
<b>Thrust area</b>	: HYV
<b>Season of the Demonstration</b>	: Kharif
<b>Technology to be demonstrated</b>	: Gokak/ Dupdal (High yielding varieties ) High density planting-5x 5 mt
<b>Reason for yield gap</b>	: Water scarcity, drought condition

Critical inputs to be provided	Area (ha) /Number	No. of farmers
Jamoon grafts - 400 Nos.	01	05

**Total budget -Rs. 16000**



**Results**

Parameters	Demo Plot
<b>Four months after transplanting at Main field</b>	
<b>Plant height (ft)</b>	<b>3.8</b>
<b>No. of branches</b>	<b>4.0</b>

## 12. Demonstration on Mango Harvester, ripening chamber and Packing – 2<sup>nd</sup> year

<b>Title</b>	: Demonstration on Mango Harvester, ripening chamber and Packing
<b>Thrust area</b>	: Drudgery reduction and Post Harvest Tech.
<b>Season of the Demonstration</b>	: Summer
<b>Technology to be demonstrated</b>	: Mango Harvester, ripening chamber & Packing of riped mango Fruits in boxes (Source : IIHR Bangalore)
<b>Rationale</b>	: By use of this harvester, Fruit damage can be minimized and Number of Man days required for harvest of unit area of Mango is reduced.



<b>Critical inputs to be provided</b>	<b>No .of Demonstration s /Units</b>	<b>No. of farmers/ Family</b>
<b>Mango Harvester, Ripening chamber, crates and Boxes</b>	<b>5</b>	<b>5</b>

**Total budget-Rs. 30000**

# 13. Popularization of High density planting of Banana- 2<sup>nd</sup> year

<b>Title</b>	: Popularization of High density planting of Banana
<b>Thrust area</b>	: ICM
<b>Season of the Demonstration</b>	: Kharif
<b>Technology to be demonstrated</b>	: Paired row planting with zig zag method 2 m x 1.2m x 1.2m Banana seedling [NRC Banana Thrichy ]
<b>Reason for yield gap</b>	: Low density and low yield

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Banana suckers -5200</b>	<b>01</b>	<b>05</b>



<b>Parameters</b>	<b>Demo Plot</b>	<b>Check</b>
<b>Plant height (ft)</b>	<b>4.2</b>	<b>4.4</b>

**Total budget -Rs. 52000**



# 14. Management of fruit fly in Mango- 2<sup>nd</sup> year

<b>Title</b>	:	<b>Cost effective Eco friendly management of fruit fly through pheromone traps in Mango</b>
<b>Thrust area</b>	:	<b>IPM</b>
<b>Season of the Demonstration</b>	:	<b>Summer</b>
<b>Technology to be demonstrated</b>	:	<b>Erection of Fruit fly traps developed by IIHR @ 15 Nos./ha</b>
<b>Reason for yield gap</b>	:	<b>Heavy fruit infestation</b>

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Fruit fly traps</b>	<b>05</b>	<b>15</b>

**Total budget - Rs. 4400**



## 15. Management of Mango Stem Borer by : Sealer cum Healer – 2<sup>nd</sup> year

<b>Title</b>	:	<b>Management of Mango Stem Borer by : Sealer cum Healer</b>
<b>Thrust area</b>	:	<b>IPM</b>
<b>Season of the Demonstration</b>	:	<b>Rabi</b>
<b>Technology to be demonstrated</b>	:	<b>Removal and cleaning of infested portion and immature stages of stem borer Swabbing with Dichlorovos@ 0.5% Pasting of Sealer Cum Healer at the infested portion (IIHR, Bangalore)</b>
<b>Reason for yield gap</b>	:	<b>Heavy fruit infestation</b>

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Sealer cum Healer</b>	<b>05</b>	<b>05</b>

**Total budget – Rs.6000**



# **FLD on Plantations**

## 16. Management of nut splitting in Arecanut

2<sup>nd</sup> year

<b>Title</b>	:	<b>Management of nut splitting in Arecanut</b>
<b>Thrust area</b>	:	<b>INM</b>
<b>Season of the Demonstration</b>	:	<b>Rabi</b>
<b>Technology to be demonstrated</b>	:	<b>Borax -30 g/tree Along with POP (FYM 12 kg/tree RDF 100: 40: 140 NPK g/tree)</b>
<b>Reason for yield gap</b>	:	<b>Severe nut splitting and yield loss</b>

<b>Critical inputs to be provided</b>	<b>Area (ha) / Number</b>	<b>No. of farmers</b>
<b>Borax -30 g/tree</b>	<b>02</b>	<b>12</b>



**Total budget-  
Rs. 18000**



# Results

Particulars	No of nuts /bunch	% Nut splitting incidence
Demonstration	350	03
Check	308	15



**Application of Micronutrients**

# 17. Branding and Labelling of value added products from Ragi

2<sup>nd</sup> year

<b>Title</b>	:	<b>Branding and Labelling of value added products from Ragi</b>
<b>Thrust area</b>	:	<b>Value addition</b>
<b>Season of the Demonstration</b>	:	<b>Kharif and Rabi</b>
<b>Technology to be demonstrated</b>	:	<b>Preparation of Ragi Malt, Ragi papad,etc and Branding,(Source : UAS Bangalore)</b>
<b>Rationale</b>	:	<b>Lower net income if sold as unbranded and unlabelled</b>

<b>Critical inputs to be provided</b>	<b>No of Demonstrations /Units</b>
<b>Weighing balance, Sealing machine, Vermi celli maker, Labels, Packing materials</b>	<b>02 SHGs</b>

**Total budget-Rs. 20000**

## Result of Previous year on Value addition to Ragi



Training programme on Value addition to Ragi

Particulars	B: C Ratio for value Addition	No of Man days Generated
Ragi Value added products like Ragi Malt, Ragi Huri Hittu, Ragi Papad		

\*Branding of these Ragi Products is under progress by 2 SHG,s

# **National Initiative on Fodder Technology Demonstration(NIFTD) 2014-15**

## I. Technology Demonstration Module (TDM)-I

Sl no	Technologies	No of Demonstration	Approximate budget
1	Round the year forages : Bajra napier grass (BNH-10/ CO-3)	6 No,s	30,000/-
2	Rainfed forage production: Forage sorghum (COFS-29)	4 No,s	20,000/-



**Total Area -2.0 ha**

## II. Technology Demonstration Module(TDM)-II

Sl no	Technologies	No of Demo,s	Approximate budget
1	Horti-pasture model: Coconut/Mango + Guinea grass/Cowpea	3 No,s	15000/-
2	Silvipasture model: Melia dubia (tree) + Guinea grass	2 No,s	10000/-



Total Area - 1.0 ha

Silvipasture system

### III. Technology Demonstration Module (TDM)-III

Sl no	Technologies	No of Demo,s	Approximate budget
1	Urea treatment of crop residues	4No,s	20000/-
2	Silage preparation/hay making	3No,s	15000/-
3	Area specific mineral mixture	3No,s	15000/-



**Spraying of urea solution on straws**



**Wet conservation as silage**

# Integrated Farming System

## Integrated Farming System as Diversified Agriculture /Livelihood

Intervention	No. of farmers	Area, ha	Cost per unit	Total (in Rs.)
<b>Integrated Farming System</b> <ul style="list-style-type: none"><li>• Agri- Horti. Silvi- Pasture system</li><li>• Compost pit</li><li>• Fish rearing</li><li>• Farm Pond</li><li>• Honey Bee</li><li>• Bio digester</li><li>• Nutrition garden</li></ul>	<b>05</b> (1 Per taluk)	<b>5 ha</b>	<b>10000</b>	<b>50000</b>





# Sri Dwarakanath Baichanahalli Koratagere tq



Existing components	Interventions introduced by KVK
Mango Orchard	Farm pond
Milching animals	Fish Rearing
Paddy	Tamarind nursery
Ragi	Fodder crops
	Flower crops
	Honey bee keeping



# Details of FLD for the KVK


Title	No. of demos	Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
<p><b>1. Combating Drought Vulnerability by Aerobic paddy cultivation MAS-26</b></p> 	10	<p>Direct sowing MAS-26            Along with POP            (25X25 cm spacing            FYM: 10 ton/ha            100:50:50 NPK Kg/ha            Use of cono weeder &amp;            Lesser water requirement            ( 30-40% less)</p>	UAS, Bangalore	1000
<p><b>2. Addressing Drought Vulnerability by Drought tolerant Ragi ML -365</b></p> 	12	<p>Along with POP            (RDF : 50:40:25 NPK kg/ha            FYM : 7.5 t /ha            Carbendazim @2 gm/kg seed  <i>Azospirillum</i> @ 2 kg/ha            PSB @ 2 Kg/ha)</p>	UAS, Bangalore	3500

Title	No. of demos	Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
<b>3. Enhancement of Red gram yield through demonstration of HYV BRG-4</b>	<b>10</b>	<b>Variety: BRG-4</b>	<b>UAS, Bangalore</b>	<b>13500</b>
<b>4. High yielding variety Arka Prabhath in Papaya</b>	<b>05</b>	<b>High yielding Papaya Variety Arka Prabhath, T.S.S-12 to 14 ,Yield -100 Kg/Plant .</b>	<b>IIHR, Bangalore</b>	<b>18000</b>
<b>5. Maximization of yield through high density planting of Banana(G-9)</b>	<b>05</b>	<b>Paired row planting with Zig Zag method 2 m x 1.2m x 1.2m Banana seedling -G-9</b>	<b>NRC Banana, Thrichy</b>	<b>52000</b>



Title	No. of demos	Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
<b>6. Dry Land Horticulture Crop - Jamoon for drought prone areas</b>	<b>05</b>	<b>High density planting-5x 5 mt Variety: Gokak</b>	<b>UHS</b>	<b>16000</b>
<b>7. Management of Mango Stem Borer by Sealer cum Healer</b>	<b>05</b>	<b>Removal and cleaning of infested portion and immature stages of stem borer Swabbing with Dichlorovos@ 0.5% Pasting of Sealer Cum Healer at the infested portion</b>	<b>IIHR, Bangalore</b>	<b>6000</b>
<b>8. Use of Pheromone Trap for control of fruit fly in Mango</b>	<b>15</b>	<b>Erection of Fruit fly traps developed by IIHR @ 15 Nos./ha</b>	<b>IIHR, Bangalore</b>	<b>4400</b>



Title	No. of demos	Technological components to be demonstrated	Sources of technology component	Budget (Rs.)
<p><b>9.</b> Seedpro – A microbial plant growth promoter against soil borne pathogens in solanaceous vegetable crops</p>	10	Seed treatment with Seedpro at the rate of 50gms/kg	IIHR, Bangalore	2500
<p><b>10.</b> Eco-friendly management of Brinjal shoot and fruit borer</p> 	10	<p>Erection of pheromone trap @ 1 for 400 sq.m. (Lure changed once in 21 days)            Release of <i>T.chilonis</i> @ 50,000/ha            Bt spray at peak flowering @1ml/L two time</p>	IIHR, Bangalore	10500
<p><b>11.</b> Triple disease resistant hybrid Arka Rakshak F1 hybrid - Tomato</p>	6	Cultivation of Arka Rakshak F1 Hybrid resistant to Leaf curl, Bacterial Wilt and Early leaf Blight in Tomato	IIHR, Bangalore	6000



Title	No. of demos	Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
<b>12.</b> Seed production of French bean Var. Arka Suvidha for sustainable income	10	Arka Suvidha seeds – 65kg.	IIHR, Bangalore	25000
<b>13.</b> Water Saving and Weed Control through Poly mulching technology in tomato production	05	Use of polythene mulch for mulching in tomato production	IIHR, Bangalore	30000
<b>14.</b> Cost effective Arka Microbial consortium for tomato production	10	Arka Microbial consortium 5kg/ha FYM 25 t/ha RDF 135:75: 60 NPK kg/ha	IIHR, Bangalore	4500
<b>15.</b> Mango Harvester ,Low cost ripening chamber and packing for reducing post harvest losses	05	Mango Harvester, Packing of riped mango Fruits in boxes	IIHR, Bangalore	30000

Title	No. of demos	Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
<b>16. Nut splitting in Arecanut</b>	<b>12</b>	<b>Borax -30 g/tree Along with POP (FYM 12 kg/tree RDF 100: 40: 140 NPK g/tree)</b>	<b>CPCRI</b>	<b>18000</b>
<b>17 .Value Addition, Labelling &amp; Branding of Ragi Products</b>	<b>02 SHG's</b>	<b>Preparation of Ragi Malt, Ragi papad etc., and Branding</b>	<b>UAS Bangalore</b>	<b>20000</b>

# Activities calendar for cluster village 1 . Balenahalli

Major crops/enterprises of the village: Arecanut, Banana, Coconut, Tomato, Ragi

Crop/enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Areca nut	Monocropping & Nut splitting	Intercropping in areca nut with French bean CPCRI	OFT & Trainings
	Current yield- 1.2 ton/Ha Potential yield- 2 ton/Ha	Management of nut splitting CPCRI	FLD ,Group Discussion, Method Demonstration, Trainings and field days ,Print Media and Folder
Banana	Low plant Density & low yield Current yield- 28.6 ton/Ha Potential yield- 42 ton/Ha	High density planting of Banana (G-9) NRC Banana, Thrichy	FLD, Group Discussion, Method Demonstration, Trainings and field days



## Activities calendar for cluster village **2. D Nagenahalli**

Major crops of the village: Ragi, Paddy, Maize, Tomato, Brinjal, Red gram

Crop/enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Paddy	Lower water use efficiency & Low yield Current yield – 30 Qt/Ha Potential yield- 50 Qt/Ha	Aerobic paddy cultivation UASB	FLD Trainings /Field day
Jamoon	Drought, Soil erosion	Dry land Horticulture – Jamoon	FLD/ Trainings
IFS	Low income	Integrated farming system for sustainable agriculture UASB	FLD/ Trainings



**D Nagenahalli cluster village location**

Contd...

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Ragi	<p>Delayed monsoon, long duration ragi ,Moisture stress, Use of low yielding varieties</p> <p><b>Current yield-11.2 Qt/Ha</b></p> <p><b>Potential yield- 30 Qt/Ha</b></p>	<p>Drought tolerant Ragi ML -365</p> <p><b>UAS B</b></p>	<p>FLD</p> <p>Trainings / Field day</p>
	<p>Lack of knowledge on value addition and branding</p>	<p>Value Addition, Labelling and Branding of Ragi Products</p> <p><b>UASB</b></p>	<p>FLD</p> <p>Trainings / Field day</p>




**labelled**



**Unlabelled**

## Activities calendar for cluster village 3. Haraluru

Major crops of the village: Arecanut, Mango, Banana, Tomato, Brinjal, French bean Ragi, Maize

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
	<p>Low soil fertility, Monocropping, Lower income</p> <p><b>Current yield-9 ton/Ha</b> <b>Potential yield- 15 ton/Ha</b></p>	<p>Redgram-Greengram (1:4) as a intercrop in Mango orchard for climate resilient agriculture</p> <p><b>IIHR, Bangalore</b></p>	<p>OFT Trainings</p>
	<p>Stem borer infestation Heavy fruit infestation</p> <p><b>% pest Incidence – 12.6</b></p>	<p>Management of Mango Stem Borer by Sealer cum Healer</p> <p>Use of Pheromone Trap for control of fruit fly in Mango</p> <p><b>IIHR, Bangalore</b></p>	<p>FLDs Trainings</p>
	<p>Pre &amp; Post harvest loss High cost involved in ripening</p>	<p>Mango Harvester , low cost ripening chamber &amp; Packing</p> <p><b>IIHR, Bangalore</b></p>	<p>FLD Trainings &amp; Method demonstration</p>



Contd...

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Tomato	Poor Soil and nutrient Management, Low keeping quality	Arka Microbial consortium  IIHR,Bangalore	FLD ,Group Discussion, Method demonstration, Trainings and field days Print Media and Folder
	Water scarcity, weed menace and low yield	Plastic mulching in tomato production IIHR,Bangalore	FLD , Trainings /Field day
	Bacterial wilt, leaf curl & Low yield Current yield- 34.2 ton/Ha Potential yield- 50 ton/Ha	Arka Rakshak F1 resistant to Leaf curl, Bacterial Wilt and Early leaf Blight in Tomato IIHR,Bangalore	FLD Trainings /Field day
Solanaceous vegetables	Poor crop stand due to root rot and wilt Per cent incidence – 47.3	Seedpro – A microbial plant growth promoter IIHR,Bangalore	FLD Trainings
Brinjal	Shoot & fruit Borer  % pest infestation – 38.4	Eco-friendly management of Brinjal shoot and fruit borer IIHR,Bangalore	FLD Trainings /Field day

## Activities calendar for cluster village 4. Sakshihalli

Major crops/enterprises of the village: Red gram, Groundnut ,Ragi, Tomato, French bean, Mango

Crop/enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Red gram	Use of local varieties  Current yield- 07 qt/Ha Potential yield- 12 qt/Ha	Enhancement of Red gram yield through introduction of BRG-2 variety	FLD, Group discussion, Field day & Trainings
Groundnut	Smaller pod size & Lower yield  Current yield- 06 qt/Ha Potential yield- 15 qt/Ha	Assessment of Ground nut varieties KCG -2 and KCG - 6	OFT
Papaya	Low yielding varieties, Low T.S.S  Current yield- 70 ton/Ha Potential yield- 85 ton/Ha	High yielding variety Arka Prabhat in Papaya  IIHR,Bangalore	FLD Trainings

Contd...

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
---------------------	--------------------	--	------------------------------------

**French bean**

**Non availability of quality seed of improved varieties, Market price fluctuation**

**if grown as vegetable**  
**Income (as vegetable )**  
**Rs. 0.60 lakh /Ha**  
**Income (as a seed ):**  
**1lakh /Ha**

**French Bean Seed Production- Arka Suvidha**

**IIHR, Bangalore**

**FLD, Field day & Trainings**



## Activities calendar for cluster village : **5.Arsikere**

Major crops/enterprises of the village: Pomegranate, Groundnut ,Ragi,, Mango

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
<b>Pomegranate</b>	Wilt & Bacterial Blight, Low yield <b>Current yield- 8.5 qt/Ha</b> <b>Potential yield- 12 qt/Ha</b>	Evaluation of technology for management of Pomegranate wilt	<b>OFT &amp; Trainings</b>
<b>Mango</b>	Stem borer infestation Heavy fruit infestation <b>% pest Incidence – 12.6</b>	Management of Mango Stem Borer by Sealer cum Healer Use of Pheromone Trap for control of fruit fly in Mango <b>IIHR, Bangalore</b>	<b>FLDs Trainings</b>
<b>Ragi</b>	Delayed monsoon, long duration ragi ,Moisture stress, Use of low yielding varieties <b>Current yield-11.2 Qt/Ha</b> <b>Potential yield- 30 Qt/Ha</b>	Drought tolerant Ragi ML -365 <b>UAS B</b>	<b>FLD Trainings / Field day</b>
<b>Paddy</b>	Lower water use efficiency & Low yield <b>Current yield – 30 Qt/Ha</b>	Aerobic paddy cultivation <b>UASB</b>	<b>FLD Trainings /Field day</b>

# Activities calendar of each SMS (Plant Breeding)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed
<b>OFT</b>				
Sakshihalli	Ground nut	Assessment of Ground nut varieties KCG -2 and GPBD-4	Radha Banakar Jagadish K N	12000
<b>FLD</b>				
Bukkapattana	Red gram	Enhancement of Red gram yield through introduction of BRG-4 variety	Radha Banakar Ramesh	13500
Belgumba	Tomato	Introduction of Arka Rakshak F1 resistant to Leaf curl, Bacterial Wilt and Early leaf Blight in Tomato	Radha Banakar Prashanth J M	6000
Neralegudda	French Bean	Seed production Technique in French bean Var. Arka Suvidha	Radha Banakar Prashanth J M	25000
Sakshihalli	Papaya	Popularization of HYV Arka Prabhat in Papaya	Radha Banakar Prashanth J M	18000



# Activities calendar of each SMS (Plant Breeding)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed
<b>Training programmes for Farmers/ Farm Women</b>				
Sakshi halli	Red gram	Improved production practices of red gram	Radha Banakar	3000
Ganadhunase	Onion	Seed production in Onion	Radha Banakar Prashant J M	3000
Ramanahlli	French Bean	French Bean Seed Production	Radha Banakar Prashant J M	3000
VH Palya	Ground nut	Integrated Crop Management in Ground nut	Radha Banakar Ramesh P R	3000
Mallasandra	Fodder Crops	Recent technologies in forage crops	Radha Banakar Ramesh P R	10000
<b>Training Programmes for Extension persons</b>				
	Vegetables	Seed Production in Vegetables	Radha Banakar Prashant J M	5000
<b>Sponsored Training Programmes</b>				
Urkere	Red gram	Improved Seed production in Red gram (sp by KSSC LTD.Tumkur)	Radha Banakar Prashant J M	

# KVK Farm and Revolving Fund utilization by the SMS(Plant Breeding)

Demo/ Production Units/ Labs	Crop/ enterprise/ activity	Physical Target for the year	Approximate Expenditure (Rs.)	Approximate Revenue (Rs.)
Seed Production	Ragi- ML=365	500 kg	10000	20000
Seed Production	Fox tail millet	200 kg	5000	10000
Seed Production	Redgram –BRG4	500kg	15000	30000
Seed Production	Tomato -Arka Meghali	20 kg	18000	30000
Seed Production	Brinjal – A Shirish	20kg	14000	24000
Seed Production	Chilli – A Suphal	30 kg	15000	36000
Seed Production	French Bean – Arka Suvidha	1000 kg	50000	150000
Seed Production	Bhendi – A Anamika	500 kg	65000	150000
Seed Production	Pumpkin – A Chandan	20 kg	25000	60000
Seed Production	Ridge gourd – A Sumeet	50 kg	20000	30000
Seed Production	Onion – A Kalyan	200 kg	70000	200000
Seed Production	Radish –A Nishant	50kg	10000	15000
Seed Production	Amaranthas- A Suguna	20kg	4000	6000
Seed Production	Papay – A Prabhath	2 Kg	50000	200000
<b>Total</b>		<b>3112 Kg</b>	<b>3,71,000</b>	<b>9,61,000</b>

# Activities calendar of SMS (Soil Science)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed (in Rs.)
D.Nagenahalli	Mango-OFT	Assessment of Redgram-Greengram (1:4) as a intercrop in Mango orchard for climate resilient agriculture	J.M.Prashanth K.N. Jagadish & B.H.Gowda	4180
D. Nagenahalli, Balenahalli, Vaddarahalli	Aerobic Paddy-FLD	Combating drought vulnerability by Aerobic paddy cultivation:	Jagadish.K.N	1000
Vaddarahalli, Balenahalli, Hanumanthapura	Ragi - FLD	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365	K.N.Jagadish, Radha R.Banakar	3500
Belgumba	Tomato-FLD	Cost effective Arka Microbial consortium for quality Tomato production:	KN Jagadish, J.M.Prashanth, B.H.Gowda	4500
D.Nagenahalli, Kataveeranahalli, Baichenahalli,	Arecanut-FLD	Management of nut splitting in Arecanut	J.M.Prashanth, KN Jagadish,	18000

# Activities calendar of SMS (Soil Science)

Village	Crop/enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed (in Rs.)
<b>Trainings for farmers/Farm women/Rural youth:</b>				
D.Nagenahalli	Soil health management	Enhancement of soil fertility through different bio-fertilizers	Jagadish.K.N Shashidhar.K.N	3000
D, Nagenahlli, Balenahalli,	NRM	Soil and water conservation.	Jagadish.K.N Shashidhar.K.N	3000
Baichanahalli, Hosapalya	Ragi - FLD	Integrated crop management in Ragi ML-365.	Jagadish.K.N, B.H.Gowda	3000
Belgumba	Tomato-FLD	Use of Arka microbial consortium Method of compost production.	Jagadish.K.N, J.M.Prashanth, K.N .Shashidhar	3000
Kataveeranaha Ili, Balenahalli	Arecanut-FLD	Intercropping system & Nutrient management in Areca nut	J.M.Prashanth	3000

# Activities calendar of SMS (Soil Science) .....contd.,

Village	Crop/ enterprise	Activity as leader (Title of Training title)	Other members of the team	Budget proposed
<b>Trainings for farmers/Farm women/Rural youth:</b>				
<b>Sompura</b>	<b>Coconut</b>	Organic farming in horticulture crops	<b>Jagadish.K.N</b>	<b>3000</b>
<b>D. Nagenahalli</b>	<b>Mango, Banana Papaya</b>	Soil and water conservation	<b>Shashidhar.K.N</b>	<b>3000</b>
<b>Guluru,</b>	<b>Horticultural crops</b>	Importance of Soil and water testing	<b>P.R.Ramesh Shashidhar.K.N</b>	<b>3000</b>
<b>Belgumba, Durgadahalli,</b>	<b>IFS</b>	<b>Integrated farming system for sustainable agriculture</b>	<b>Prashanth.J.M Jagadish.K.N</b>	<b>3000</b>
<b>Balenahalli</b>	-	<b>Enhancement of soil fertility through different bio- fertilizers</b>	<b>Jagadish.K.N Shashidhar.K.N</b>	<b>3000</b>
	-	Sampling method for leaf analysis		

# Activities calendar of SMS (Soil Science) .....contd.,

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed
<b>Trainings for Extension Personnel :</b>				
Tumkur District	Tomato, Brinjal	Use of Arka Microbial Consortium in Vegetable production	Prashanth.J.M	3000
Tumkur District	Banana,	Micronutrient management in Horticulture crops	Jagadish.K.N Shashidhar.K.N	3000
<b>Vocational training:</b>				
Selected Rural youths from all clusters	Vegetable crops	Production technology of Arka Coco peat	Jagadish.K.N Shashidhar.K.N	8000
KVK,Hirehalli	Honey bee	Honey bee keeping	Jagadish.K.N	8000
<b>Sponsored Programmes:</b>				
	Agri & Hort crops	Organic farming practices	Jagadish.K.N Shashidhar.K.N	

## **KVK Farm and Revolving Fund utilization by the SMS (Soil Science)**

<b>Demo/ Production Units/ Labs</b>	<b>Crop/ enterprise/ activity</b>	<b>Physical Target for the year in Kgs</b>	<b>Approximate Expenditure (Rs.)</b>	<b>Approximate Revenue (Rs.)</b>
<b>Banana Special</b>	<b>Production of Banana Special</b>	<b>3000</b>	<b>280000</b>	<b>450000</b>
<b>Mango Special</b>	<b>Production of Mango Special</b>	<b>2000</b>	<b>190000</b>	<b>300000</b>
<b>Citrus special</b>	<b>Production of Citrus Special</b>	<b>1000</b>	<b>95000</b>	<b>150000</b>
<b>Vegetable Special</b>	<b>Vegetable Special</b>	<b>2000</b>	<b>80000</b>	<b>125000</b>
<b>Arka microbial consortium</b>	<b>Mass production</b>	<b>2000</b>	<b>50000</b>	<b>100000</b>
<b>VAM</b>	<b>VAM Production</b>	<b>3000</b>	<b>80000</b>	<b>100000</b>
	<b>Total</b>	<b>13000</b>	<b>775000</b>	<b>1225000</b>

## Activities calendar of SMS (Horticulture)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed
		<b>OFT</b>		
<b>Balenahalli Vaddarahalli</b>	<b>Areca nut</b>	<b>Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income</b>	<b>K.N. Jagadish Somashekar, P.R. Ramesh</b>	<b>10800</b>
		<b>FLD's</b>		
<b>Belagumba</b>	<b>Tomato</b>	<b>Technology demonstration on plastic mulching in tomato production</b>	<b>K.N. Jagadish P.R. Ramesh</b>	<b>30000</b>
<b>Balenahalli Hanumathapur a</b>	<b>Banana</b>	<b>Maximization of yield through High density planting of Banana (G-9)</b>	<b>PRRamesh, KNJagadsih</b>	<b>52000</b>
<b>D Nagenahalli</b>	<b>Jamoon</b>	<b>Introduction of new potential dry land Horticulture crop - Jamoon through High density planting-(5x 5 mt )</b>	<b>Ramesh, KN Jagadish</b>	<b>16000</b>



# Activities calendar of SMS (Horticulture)

Village	Crop/ enterprise	Activity as leader (training title)	Other members of the team	Budget proposed
		<b>Trainings -Farmers/Farm women</b>		
<b>Anupanahalli</b>	<b>Areca nut OFT</b>	<b>Improved production practices in Areca nut</b>	<b>K.N. Jagadish Somashekar,</b>	<b>3000</b>
<b>Belagumba</b>	<b>Tomato FLD</b>	<b>Importance of plastic mulching in tomato</b>	<b>K.N. Jagadish P.R. Ramesh</b>	<b>3000</b>
	<b>Vegetables crops</b>	<b>Precision farming</b>	<b>K.N. Jagadish P.R. Ramesh</b>	<b>3000</b>
<b>Balenahalli</b>	<b>Banana FLD</b>	<b>Production practices in banana cultivation</b>	<b>P.R. Ramesh KN Jagadish</b>	<b>3000</b>
<b>Nagarjunahalli D Nagenahalli</b>	<b>Dry land horticulture FLD</b>	<b>Importance of dry land horticulture crops and their production practices</b>	<b>P.R. Ramesh KN Jagadish</b>	<b>3000</b>
<b>Buduvanahalli, Ajjehalli</b>	<b>Flowers</b>	<b>Production practices of Commercial flowers</b>	<b>PRRamesh, KNJagadish</b>	<b>3000</b>
<b>D Nagenahalli</b>	<b>IFS</b>	<b>Importance of Horticulture in IFS</b>	<b>Ramesh, KN</b>	<b>3000</b>

## Activities calendar of SMS (Horticulture)

Village	Crop/ enterprise	Activity as leader (training title)	Other members of the team	Budget proposed
		<b>Trainings –Rural youth</b>		
KVK Hirehalli	Vegetables	Raising of quality vegetables seedlings through pro-trays	Jagadish K.N. Somashekar	3000
KVK Hirehalli	Vegetables	Raising of quality vegetables seedlings through pro-trays	PRRamesh, Jagadish KN	3000
		<b>Trainings –Extension functionaries</b>		
KVK Hirehalli	Fruit crops	Rejuvenation techniques in fruit crops	PRRamesh, Jagadish KN	3000
		<b>Vocational trainings</b>		
KVK Hirehalli	Coconut	Coconut Friends	PRRamesh, Jagadish KN	
<b>Sponsored trainings</b>				
KVK Hirehalli	Fruit crops	High density Planting in Horticulture Crops	PRRamesh, Jagadish KN	

## KVK Farm and Revolving Fund utilization by the SMS ( Horticulture )

Demo/ Production Units	Crop/ enterprise/ activity	Physical Target for the year	Approximate Expenditure (Rs. In Lakhs )	Approximate Revenue (Rs. In Lakhs )
<b>Model Nursery unit</b>	<b>Areca nut Coconut</b>	<b>0.70 Lakh seedlings</b>	<b>2.5</b>	<b>7.5</b>
	<b>Fruit crop seedlings</b>	<b>0.25 Lakh seedlings</b>	<b>4.0</b>	<b>7.5</b>
	<b>Vegetables seedlings</b>	<b>0.30 Lakh</b>	<b>0.09</b>	<b>0.45</b>
<b>Protected cultivation demo unit ( 195 m2)</b>	<b>Vegetables /Floriculture</b>	<b>2 ton/ 5000 flowers per year</b>	<b>0.15</b>	<b>0.30</b>
			<b>6.74</b>	<b>15.75</b>

# Activities calendar of SMS (Pl.Protection)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed
Arasikere, Madde	Pomegranate- OFT	Evaluation of technology for management of Pomegranate wilt	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	8100
Kuruvalu Vaddarahalli I.D.Halli	Mango-FLD	1. Management of Mango Stem Borer by : Sealer cum Healer	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	6000
	Mango-FLD	Cost effective Eco friendly monitoring of fruit fly through pheromone traps in Mango	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	4400
Belgumba, Devarayapattan a, Durgadahalli,	Solanaceous Vegetables- FLD	Popularization of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	2000
Anupanahalli Madde	Brinjal-FLD	Eco-friendly management of Brinjal shoot and fruit borer- An IIHR technology	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	10500
<b>TOTAL</b>				<b>31000</b>

# Activities calendar of SMS (Pl.Protection) .....contd.,

Village	Crop/ enterprise	Activity as leader (Title of trainings)	Other members of the team	Budget proposed
<b>Trainings for farmers/Farm women/Rural youth:</b>				
Kuruvallu	Mango-FLD	IPDM in Mango	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	3000
Arsikere	Pomegranate- OFT	Pest and Disease management in Pomegranate	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	3000
Holavanahalli	Paddy	IPDM in paddy	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	3000
Belgumba, Devarayapattana, Durgadahalli, Hanmantahpura	Solanaceous Vegetables-FLD	Management of Root rot diseases of Solanaceous vegetables	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	3000
Anupanahalli Madde	Brinjal-FLD	Eco friendly management of pests and diseases in Brinjal	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	3000
			<b>TOTAL</b>	<b>18000</b>

# Activities calendar of SMS (Pl.Protection) .....contd.,

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget propose d
---------	---------------------	---	------------------------------	------------------------

## Trainings for Extension Personnel :

Tumkur District Horticulture Dept. officials	Solanaceous vegetables	IPDM in Solanaceous vegetables	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	6000
Tumkur District Agriculture Dept. officials	Paddy	IPDM in Paddy	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	6000

## Vocational training:

Selected Rural youths from all clusters	Bio control agents	Mass production of <i>Goniozus nenphantidis</i> for the control of Black headed caterpillar in coconut	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	6000
---	-----------------------	--	--	------

**TOTAL 18000**

## KVK Farm and Revolving Fund utilization by the SMS (Pl.Protection)

Demo/ Production Units/ Labs	Crop/ enterprise/ activity	Physical Target for the year (in Kg)	Approximate Expenditure (Rs.)	Approximate Revenue (Rs.)
Neem soap	Production of Neem soap	2000	180000	300000
Pongamia soap	Production of Pongamia Soap	1000	90000	125000
Mango fruit fly Trap	Production	25000 Nos.	750000	1375000
Mango Healer cum Sealer	Production	300	14000	16000
<b>Total</b>			<b>103400</b>	<b>1816000</b>

# Activities calendar of each SMS (Home Science)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed
<b>FLD</b>				
Kuruvalu	Mango	Demonstration on Mango Harvester , low cost ripening chamber & Packing	Somashekhar Prashanth JM	25000
D, Nagenahlli, Arakere	Ragi	Value Addition, Labelling and Branding of Ragi Products	Somashekhar Ramesh	20000



# Activities calendar of each SMS (Home Science)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed
<b>Training programmes for Farmers/ Farm Women</b>				
Srirangabad avane	Minor millets	Processing and value addition in minor millets	Somashekhar	2500
Oorakere	Ragi	Processing, value addition and marketing techniques in ragi	Somashekhar Prashanth JM	3000
Kuruvalu	Mango	Demonstration on Mango harvester, low cost ripening chamber and packing	Somashekhar Prashanth JM	3000
Arakere	Horticultural crops	Processing and value addition	Somashekhar Prashanth JM	4000
<b>Training Programmes for Rural Youth</b>				
Hirehalli	Ragi	Processing & value addition to Ragi	Somashekhar Prashanth JM	3000
Sira Tq	Mushroom	Mushroom cultivation	Somashekhar	2500

# Activities calendar of each SMS (Home Science)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)		Other members of the team	Budget propos ed
<b>Training Programmes for Extension persons</b>					
Tumkur Tq		Health & Nutrition		Somashekhar	5000
Koratagere	<b>IGA</b>	IGA for SHG groups		Somashekhar	5000
<b>Vocational Training Programmes</b>					
KVK	Horti. Crops	PHT in horticultural crops		Somashekhar	7000
<b>Sponsored Training Programmes</b>					
Hort Dept.	Hort.Crops	Processing and Value addition of Horticultural crops		-	
Agri. dept	Minor Millets	Value addition to minor millets			

## KVK Farm and Revolving Fund utilization by the SMS (Home Science)

Demo/ Production Units/ Labs	Crop/ enterprise/ activity	Physical Target for the year	Approximate Expenditure (Rs.)	Approximate Revenue (Rs.)
Spawn Production Unit	Mushroom Spawn	100 Kg	3000	6000
Amla Candy	Value addition	100 Kg	10000	25000
Amla Juice	Value addition	1000 ltr	50000	100000
Amla Supari	Value addition	25 Kg	3000	6000
Ragi Malt	Value addition	50 Kg	3000	7500
<b>TOTAL</b>			<b>69000</b>	<b>144500</b>

# Activities calendar of each SMS (Extension)

Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)		Other members of the team	Budget propos ed
<b>Training Programmes for Extension persons</b>					
Tumkur		Community based organization		-	<b>5000</b>
KVK		ICT for farm entrepreneur		-	<b>5000</b>

# Activity calendar for Farm Manager

## Seed production

Sl. No.	Crop	Variety	Quantity
1.	Tomato	Arka Meghali	20 kg
2.	Brinjal	Arka Shirish	20kg
3.	Chilli	Arka Suphal	30 kg
4.	French Bean	Arka Suvidha	1000 kg
5.	Bhendi	Arka Anamika	500 kg
6.	Pumpkin	Arka Chandan	20 kg
7.	Ridge gouard	Arka Summit	50 kg
8.	Onion	Arka Kalyan	200 kg
9	Radish	Arka Nishant	50kg
10.	Amaranthas	Arka Suguna	20kg
11	Mushroom Spawn	Oyster	50 kg

### Special Activity:

1.	Organic nutritional garden	Area: 0.4 ha	-
----	----------------------------	--------------	---

Contd.,,

## Planting material

Sl. No.	Crop	Variety	Type - Seedling / Grafts	Quantity
1.	Arecanut	Hirehalli tall	Seedling	1 lakh
2.	Coconut	Tiptur tall	Seedling	1000
3.	Mango	Alphanso, Mallika	Graft	5000
4.	Sapota	PKM, Cricket Ball	Graft	4000
5.	Guava	L49, Pink flesh	Graft	1500
6.	Tamarind	PKM-1	Graft	1000
7.	Amla	NA5 , NA7	Graft	4500
8	Jamoon	Gokak	Graft	1000
9.	Tube rose	Prajwal, Suhasini, Niranthra, Vaibhava	Corms	1 Lakh

# Activity calendar for Programme assistant

Name of Laboratory	Target for no. of samples for testing/ analysis	Approx. Exp. (Rs.)	Approx Revenue (Rs.)	Expected output / outcome (Eg. Soil fertility map, advisories, contingency plans etc.)	Members associated
Soil science	2000 samples	1.14 Lakh	2 Lakh	Advisories-Soil Health Management, Water Quality for irrigation & potable	Shashidhar.K.N P.R.Ramesh B.H.Gowda
Plant Protection		25000	Nil	150 isolation of plant pathogens	Shashidhar.K.N B.H.Gowda P.R.Ramesh
Arecanut plate making Demo.	20000 Nos.	15000	30000	-	Shashidhar.K.N

## Activities other than the above:

1. Involved in assisting for conducting the training Programmes/FLD/OFTs.
2. Attending the day to day farmers/Extension functionaries visits to KVK.
3. Maintenance of KVK library
4. Reports preparation and other routine works

## Activity calendar for Programme Assistant (Computer)


<b>Name of Database/ Website/ KMAS etc.</b>	<b>Frequency of data input and updating</b>	<b>Other members of the team</b>	<b>Reports to be generated</b>	<b>Frequency of report generation</b>
<b>Farmers Database</b>	<b>Regularly</b>	<b>All SMS</b>	<b>-</b>	<b>-</b>
<b>OFT</b>	<b>Once in a week</b>	<b>All SMS</b>	<b>OFT Report</b>	<b>Monthly</b>
<b>FLD</b>	<b>Once in a week</b>	<b>All SMS</b>	<b>FLD Report</b>	<b>Monthly</b>
<b>KMAS</b>	<b>Twice a Week</b>	<b>All SMS</b>	<b>SMS Report</b>	<b>Monthly</b>
<b>Soil &amp; Water Testing Database</b>	<b>Twice a Week</b>	<b>SMS-Soil Science</b>	<b>Soil Tested Report</b>	<b>Monthly</b>
<b>Website</b>	<b>Once in a month</b>	<b>SMS – Agril.Extn.</b>	<b>-</b>	<b>-</b>



## **Other Activities of Programme Assistant(Computer)**

- **Compilation and Preparation of all reports (SAC, Action plan, MPR, DARE Report , Cabinet Report, Annual Report) and power point presentation .**
- **Checking mails regularly and correspondence of Official letters through Email.**
- **Assisting in conduction of Trainings, Meetings, Extension activities, Special Days etc.**
- **Any other work entrusted by the Programme Coordinator and all Subject Matter Specialists.**
- **Maintenance of the Computers and accessories at KVK**
- **Assisting in Office Administration and Accounts.**

# Plan for up-scaling/ out-scaling of the recent successful interventions of the KVK

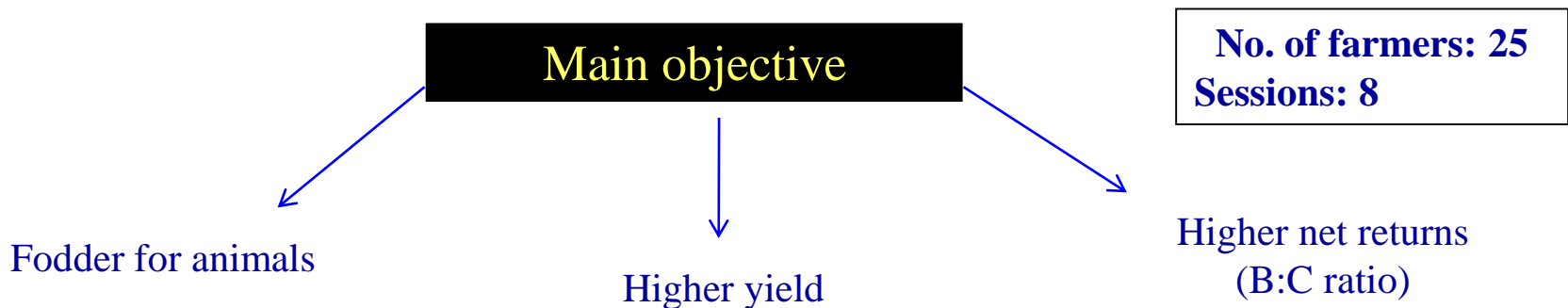
Names of successful interventions of the KVK during the last 3 years	Approaches to up-scale (within the system)	Approaches to out-scale (outside the system)
<p><b>1. Micro nutrient management in banana with an emphasis on banana special technology: FLD</b></p>	<ul style="list-style-type: none"> <li>• Banana Special – 2000 Kg</li> <li>• Pamphlets</li> <li>• Voice Krishi Vigyan Kendra (ICRISAT)</li> <li>• Training for farmer techno-agents</li> </ul>	<ul style="list-style-type: none"> <li>• Mass media</li> <li>• Community Based Organization</li> </ul> 
<p><b>2. ICM in Mango with an emphasis on Mango Special technology : FLD</b></p>	<ul style="list-style-type: none"> <li>• Mango Special-1000 Kg</li> <li>• Voice Krishi Vigyan Kendra (ICRISAT)</li> <li>• Pamphlets</li> </ul>	<ul style="list-style-type: none"> <li>• Mass media</li> <li>• Farmer to farmer spread</li> <li>• Collaboration with HOPCOMS and State Horticulture Department, Tumkur District</li> </ul>
<p><b>3. Arka microbial consortium in vegetable production with a special emphasis on Arka microbial consortium</b></p>	<ul style="list-style-type: none"> <li>• Continued - 10 ha</li> <li>• Voice Krishi Vigyan Kendra (ICRISAT)</li> <li>• Workshop for extension personnel</li> <li>• Folder</li> </ul>	<ul style="list-style-type: none"> <li>• Mass media</li> <li>• Convergence with line department and collaboration with ATMA</li> </ul>

Names of successful interventions of the KVK during the last 3 years	Approaches to up-scale (within the system)	Approaches to out-scale (outside the system)
<p><b>4. FLD &amp; FFS : Mucuna (Velvet Beans) as a intercrop in Mango</b></p>	<ul style="list-style-type: none"> <li>• Continued - 20 ha</li> <li>• Voice Krishi Vigyan Kendra (ICRISAT)</li> <li>• Seed production – 800 kg</li> </ul>	<ul style="list-style-type: none"> <li>• Mass media</li> <li>• Farmer to farmer spread</li> <li>• Collaboration with Karnataka Milk Federation for buy back arrangement of seeds and State Horticulture Department, Tumkur District</li> </ul>
<p><b>5.French bean Arka Suvidha demonstrated in FLD with Selection-9</b></p>	<p><b>To meet the demand of the seed Arka Suvidha an exclusive FLD on seed production is being proposed</b></p>	<p><b>Under NHM &amp; RKVY scheme French bean seed production is being taken up for large quantity production</b></p>

# Farmers Field School (FFS)

## **Title of FFS: Integrated Crop Management (ICM) in Sweet corn**

**Problem Definition:** Sweet corn is one of the most important remunerative crops with qualities like short duration, palatable fodder and assured market. But still there is lack of awareness in the district as far as this crop is concerned as an alternative to maize . At present the intervention has been taken up at KVK farm in a PPP mode. There is ample scope to disseminate this technology to farmers taking FFS as a stepping stone, covering time of sowing, pest and disease management, and other important agronomic practices (weeding, water management, earthing up & harvest).



# Budget

Particulars	Amount (Rs.)
1. Seeds	4000
2. Fertilizers : Major and Micronutrients	3000
2. Pest and diseases management	
Kavach	400
Neem oil	700
Confidor	800
Amino acid	480
Acephate	250
M-45	250
Contaff	600
Lannate	620
Ridomil Gold	900
6. Refreshment	4000
7. Field day	1000
8. Publication	5000
9. POL	5000
10. Field sessions	3000
<b>Total</b>	<b>30000</b>



# Innovative Programme

## Assessment of potential of Bio fuel trees in Tumkur district

Collaborative partners : Siddaganag Institute of Technology (SIT)Tumkur  
READS NGO, Tumkur

**Justification** : Bio fuel is considered to be a non conventional alternative to fossil fuel. Especially true, considering the diminishing supply of conventional fuel year by year, Increasing cost and ecological concerns SIT is running a state government sponsored project to produce bio fuel sourcing from all kinds of bio fuel trees ( Pongamia, Simaroba, Neem, Jatropha etc.,) in the district. But clear cut data on the availability of trees in the district and their production potential are still not known. Hence an initiative to survey the available resources under different categories(Name of the tree, age, production potential etc.,) is need of the hour. Though enumerative survey is not possible, a high level precise sampling technique shall be adopted to bring out this data base for further development .



Contd...

**Mode of operation** : Technical guidance for survey from KVK, Man power support from READS NGO, Further implementation and development by SIT in collaboration with KVK.

**Estimated Budget** : Rs. 50,000/-



## Production of Seed/ Planting material / Animals / Bio-control agents / botanicals

<b>Sl. No.</b>	<b>Crop</b>	<b>Variety</b>	<b>Quantity</b>
1.	Tomato	Arka Meghali	20 kg
2.	Brinjal	Arka Shirish	20kg
3.	Chilli	Arka Suphal	30 kg
4.	French Bean	Arka Suvidha	1000 kg
5.	Bhendi	Arka Anamika	500 kg
6.	Pumpkin	Arka Chandan	20 kg
7.	Ridge gourd	Arka Summit	50 kg
8.	Onion	Arka Kalyan	200 kg
9	Radish	Arka Nishant	50kg
10.	Amaranthas	Arka Suguna	20kg
11	Mushroom Spawn	Oyster	50 kg



## Planting material

Sl. No.	Crop	Variety	Type - Seedling / Grafts	Quantity
1.	Arecanut	Hirehalli tall	Seedling	1 lakh
2.	Coconut	Tiptur tall	Seedling	1000
3.	Mango	Alphanso, Mallika	Graft	5000
4.	Sapota	PKM, Cricket Ball	Graft	4000
5.	Guava	L49, Pink flesh	Graft	1500
6.	Tamarind	PKM-1	Graft	1000
7.	Amla	NA5 , NA7	Graft	4500
8	Jamoon	Gokak	Graft	1000
9.	Tube rose	Prajwal, Suhasini, Niranthra, Vaibhava	Corms	1 Lakh

## Bio-control agents / botanicals /Micronutrient fertilizer

<b>Sl. No.</b>	<b>Name</b>	<b>Type</b>	<b>Quantity</b>
1.	Neem soap	botanicals	2000 kg
2.	Pongamia Soap	botanicals	1000 kg
3	Arka Microbial consortium	Bio Fertilizer	2000 kg
4	Arka coco peat	Bio control agents	1000 kg
5	Banana special	Micronutrient fertilizer	3000Kg
6	Vegetable Special	Micronutrient fertilizer	2000Kg
7	Mango Special	Micronutrient fertilizer	2000Kg
8	Citrus special	Micronutrient fertilizer	1000Kg
9	Fruit fly traps	Bio control	20000 Nos.
10	Sealer cum Healer	Plant protection	500 kgs.
11	VAM	Bio Fertilizer	2000 Kg

## Soil, Leaf, and Water Analysis

Sl. No.	Analysis	Quantity
1.	Soil	750
2.	Leaf Analysis	500
3.	Water	750

## Revolving Fund Status (Rs. in Lakhs)

Opening balance as on 01.04.2013 (Rs.in Lakh)	Expenditure incurred during 2013-14 (Rs.in Lakh) as on 31.01.2014	Receipts during 2013-14 (Rs.in Lakh)	Closing balance as on 31.01.2014 (Rs.in Lakh)	Expected closing balance by 31.12.2014 (Including value of material in stock)
19,88,575	14,72,874	28,26,591	33,42,292	40,00,000

## Details of Budget Estimate (2014-15) based on proposed action plan

S. No.	Particulars	BE 2014-15 proposed (Rs. In Lakhs)
<b>25.1</b>	<b>Recurring Contingencies</b>	
<b>25.1.1</b>	<b>Pay &amp; Allowances</b>	<b>90.0</b>
<b>25.1.2</b>	<b>Traveling allowances</b>	<b>3.00</b>
<b>25.1.3</b>	<b>Contingencies</b>	
<b>A</b>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	<b>4.00</b>
<b>B</b>	POL, repair of vehicles, tractor and equipments	<b>4.00</b>
<b>C</b>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	<b>2.00</b>
<b>D</b>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	<b>2.50</b>
<b>E</b>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	<b>3.00</b>
<b>F</b>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	<b>0.40</b>
<b>G</b>	Training of extension functionaries	<b>0.50</b>
<b>H</b>	Maintenance of buildings	<b>3.00</b>

<b>S. No.</b>	<b>Particulars</b>	<b>BE 2014-15 proposed (Rs. In Lakhs)</b>
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	5.00
<i>J</i>	Library	2.00
<i>K</i>	Extension Activities	1.00
<i>L</i>	Farmers Field School	0.30
<i>M</i>	IFS	0.50
<i>N</i>	Innovative Programmes	0.50
<i>O</i>	NIFTD(National Initiative on Fodder Technology Demonstration)	2.00
<b>25.1</b>	<b>TOTAL Recurring Contingencies</b>	<b>30.7</b>
<b>25.2</b>	<b>Non-Recurring Contingencies</b>	
25.2.1	<b>Works</b>	<b>20.00</b>
25.2.2	<b>Equipments including SWTL &amp; Furniture</b>	<b>30.00</b>
25.2.3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	-
25.2.4	<b>Library</b> (Purchase of assets like books & journals)	<b>0.10</b>
<b>25.2</b>	<b>TOTAL Non-Recurring Contingencies</b>	<b>50.10</b>
<b>25.3</b>	<b>REVOLVING FUND</b>	-
<b>25.4</b>	<b>GRAND TOTAL</b>	<b>173.8</b>

## Additional Activities

<b>Name of the Project</b>	<b>Source of Fund</b>	<b>Amount (Rs.)</b>	<b>Remarks</b>
<b>Technology demonstration component NICRA</b>	<b>CRIDA, Hyderabad</b>	<b>30.35 Lakhs</b>	<b>Ongoing</b>
<b>Establishment model Nursery at KVK Hirehalli</b>	<b>NHM, GOK</b>	<b>25 Lakhs</b>	<b>Ongoing</b>
<b>Participatory Vegetable Seed Production and distribution system</b>	<b>RKVY, GOK</b>	<b>40 Lakhs</b>	<b>Ongoing</b>
<b>Leaf Tissue analysis laboratory</b>	<b>NHM, GOK</b>	<b>20 Lakhs</b>	<b>Ongoing</b>
<b>vKVK</b>	<b>ICRISAT</b>	<b>-</b>	<b>Ongoing</b>
<b>Seed production in vegetables</b>	<b>NHM, GOK</b>	<b>4 Lakhs</b>	<b>Ongoing</b>



**THANK YOU**