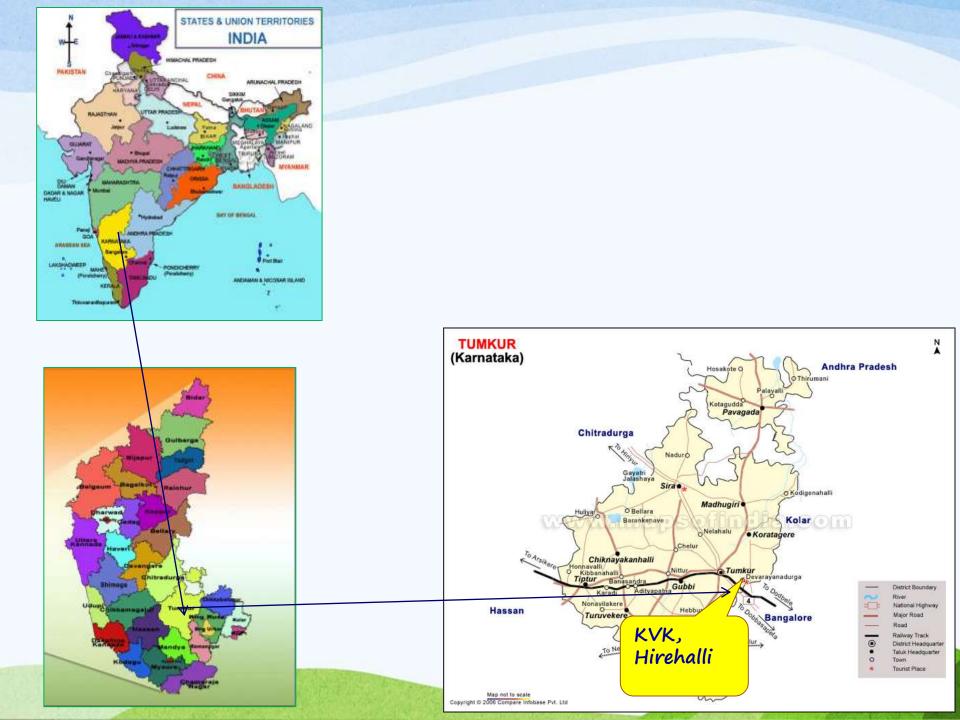
KRISHI VIGYAN KENDRA HIREHALLI

DASHEHARI

ACTION PLAN MEETING 2015-16

Dr. N. Loganandhan Programme Coordinator



Krishi Vigyan Kendra(IIHR),Hirehalli,Tumkur - FARM

Krishi Vigyan Kendra (IIHR), Hirehalli, Tumkur

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Imagery Date: 3/30/2011 🐉 2011

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

Eye alt 6945 ft 🔘

Google earth

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

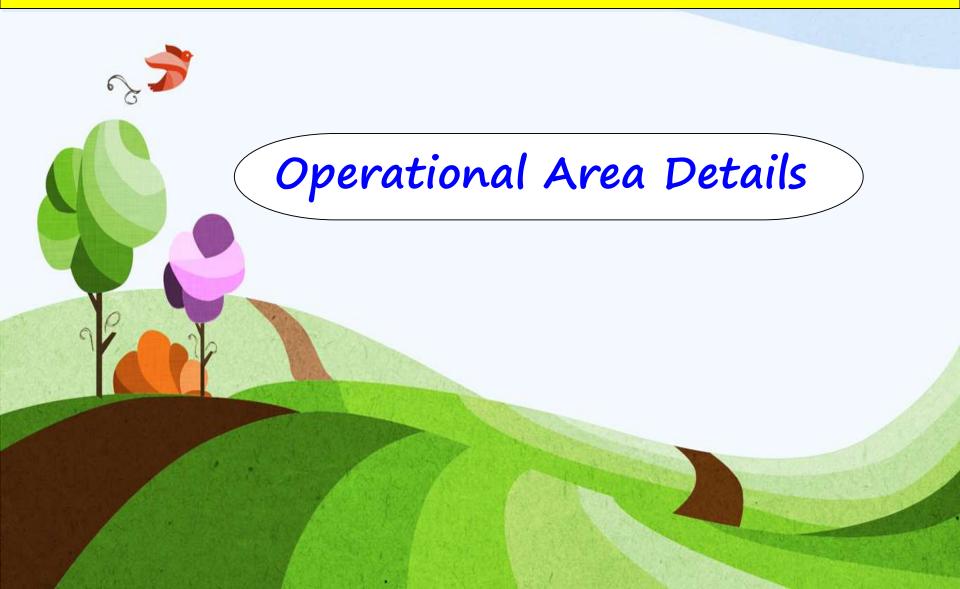
District Features

Agro-climatic zone(s) names	Zone 4 & 5 Central and Eastern – Dry Zone	
No. of Taluks	10 (05 for Tumakuru A)	
No. of Villages	1340 Chitradurga	
No. of Holdings	209501 States Medhagirit	
Gross cropped area (Ha)	283138 Chikasyakashali	
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, Pomegranate &Tamarind	
Major Livestock details	Cattle, Buffalo, Sheep, Goat, Pigs, Poultry	

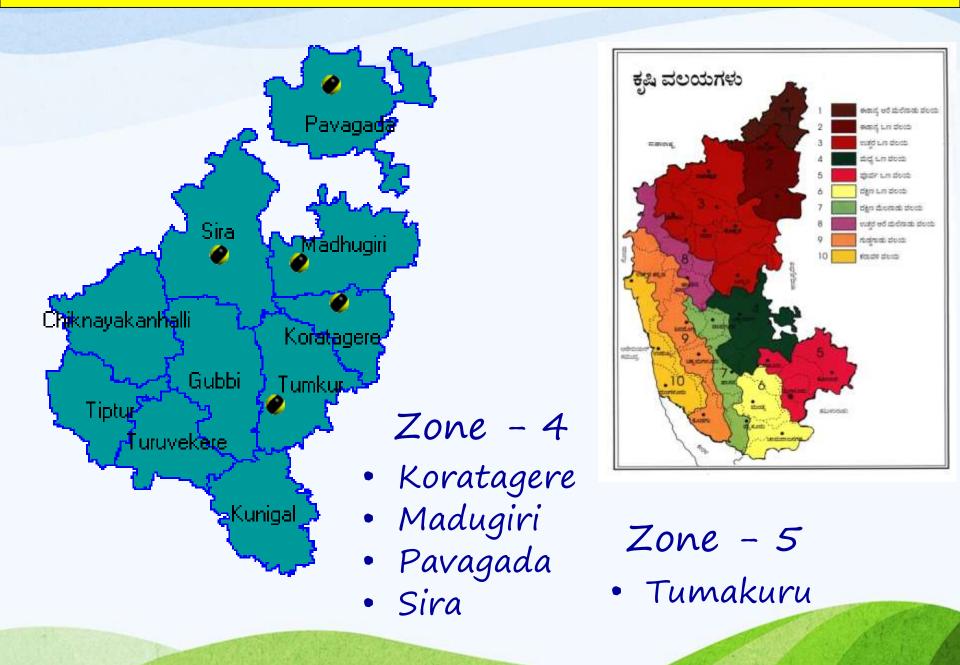
KVK Manpower and Facilities

No. of SMS in position	6
No. of Prog. Assistants in position	3
KVK Farm details Total Area (Ha)	27.2
Cultivated area (Ha)	16.2





JURISDICTION OF KVK, Hirehalli



Operational Area

Name of Taluk	Cluster Villages selected
Tumakuru	Urdigere, Belagumba, Beliiibattalu, Vadderahalli
Korategere	D.Nagenahalli, Baichenahalli, Vadderahalli
Madhugiri	Hanumanthapura, Midigeshi, Chinnenahalli, Nagalapura
Pavagada	Arasikere, Mangalavad, Madde
Sira	Kataveeranahalli, Kallambela Sakshihalli, Kumbarahalli, Ganadahunase



SI.	Demo Units Details at instructional Farm
No.	
1	Modern Water Storage Tank (German Technolo
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 Blog
11	Multipurpose Tree Collection Block
12	Areca nut Nursery Unit
13	Medicinal Plant Demonstration Plane And
14	Integrated Farming System Block

and it is a support of the first state

SI. No.	Demo Units Details	
15	Medicinal Crop Seedlings Production Nursery	
16	Mist House Unit	
17	Farm pond with plastic lining	
18	Threshing Yard	
19	Farm Machinery Unit	the second se
20	Fruit Crop Nursery Unit	BMANALL'IL
21	Shredding Cum Chipping Unit	
22	Automatic Weather Station Unit	
23	Areca nut Based Model Cropping System Unit	Same A. A Hard
24	Water Harvesting Cum Fish Pond Unit	
25	Protected Vegetable Production Demo Unit	#
26	Protected Floriculture Demo Unit	
27	Tuberose Varietal Collection Cum Production Unit	

SI.	Demo Units Details	1 - Maria
No.		CONTRACTOR
28	Drum Stick Seed Production Demo Unit	We want
29	Precision Farming Demo Unit	
30	Centralized Irrigation System	
31	Betel vine Varietal Collection Unit	MAR .
32	Areca nut Varietal Collection	
33	Coconut Varietal Collection Unit	
34	Hirehalli Dwarf Areca nut Demo Block	Ser Children
35	Bio-digester Unit	
36	Mushroom Demo Unit	N THENDE
		COM MI COMPANY

Laboratories Details

- 1. Leaf Tissue Analysis Lab
- 2. Plant Health Clinic Lab

Production Units

- 1. Micronutrient Production Unit
- 2. Bio fertilizers Production Unit
- 3. Food Processing & Value addition Unit
- 4. Bio control Production Unit
- 5. Vermi– Compost Production U
- 6. Compost Production Unit
- 7. Vegetable Seed Production Unit
- 8. Mushroom Spawn Production Unit
- 9. Fish pond Unit
- 10. Hybrid Vegetable Seed Product
- 11. Papaya Seed Production Unit
- 12. Fruit Fly Production Unit





Prioritized Problems and Thrust Areas

Major Crops	Problems Identified	Major Thrust Areas
Paddy	Water Scarcity and low yield	Water Management
Ragi	Drought, Use of local varieties and low yield. Lack of knowledge on Processing, value addition and branding of Ragi products, Soil Crust in Red Soil	Processing and Value addition
Redgram	Old variety with low yield, Delayed Monsoon and Pod borer and sterile mosaic disease in red gram.	New variety, Water Management and IPM
Groundnut	Old variety with low yield Tikka Disease , leaf minor, low income	New variety, IDM
Aster	Small size flowers, less diameter , use of local variety and low yield	New variety

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Prioritized Problems and Thrust Areas

il and Nutrient ment, Water scarcity, ble variety Low keeping I wilt and Shoot & fruit Brinjal ilability of quality seed of d varieties, Market price	
Brinjal ilability of quality seed of d varieties, Market price	Seed production and
d varieties, Market price	Seed production and
on if grown as vegetable	markeling
opping, Stem Borer y mildew, Fruit fly and in Mango, lack of ge on PHT in mango.	IPDM and PHT
nt Density, poor nutrient ment	ICM
	ge on PHT in mango. nt Density, poor nutrient



Prioritized Problems and Thrust Areas

Crops/ Livestock	Problems Identified	Major Thrust Areas
Pomegranate	Wilt & Bacterial Blight, Low yield , indiscriminate use of nutrietns	IDM, INM
Рарауа	Old variety, Low fruit setting, flower dropping, Ringspot virus and low yield	HYV, INM and IDM
Arecanut	Monocropping, Low soil fertility, Anabe Roga & Nut splitting	INM and IDM
Betelvine	Low nutrient , leaf quality and low yield	INM
Cotton	Severe incidence of sucking pest and spraying is not effective , high dosage of pesticides.	IPDM

6534

Abstract of programmes planned for the year 2015-16

Technical Interventions	Numbers
OFT	06
FLD	11
EDP	01
FFS	01
Innovative Programme	01
IFS	05
NIFTD	25



Details of OFTs for the KVK

Title	No. of Trials	Treatments	Budget (Rs.)
Assessment of groundnut varieties	7	TO 1 : TMV2 TO 2:KCG-2 TO 3 :KCG-6	21000
Assessment of Arecanut –French bean intercropping system for high soil fertility and higher income	7	T1: Mono cropping T2 :Areca nut + Vegetable cowpea (0.8 ha) T3: Areca nut + French bean (Arka Suvidha) (0.8 ha)	28000
Evaluation of technology for management of Pomegranate wilt	7	T1: Application of FYM & Neem cake T2: Drenching with Carbendazim @ 2gm/litre at 20 days interval.(20 litres of spray solution /plant - 3 times) T3:Application of Actinobacteria consortium @20g/lt at 15 days intervals (5 times)	18900

Details of OFTs for the KVK				
Title	No. of Trials	Treatments	Budget (Rs.)	
Assessment of Groundnut as a intercrop in Mango orchard for climate resilient agriculture	7	T1: Solo cropping T2: Mango + Horse gram T3: Mango + Groundnut	9450	
Assessing the Performance of varieties of china aster (Callistephus chinensis Ness.) in Tumakuru district	5	T1:Local Variety T2: Var: Kamini T3: Phule Ganesh Pink (PG-8) T4:Arka Aadya	13500	
Evaluation of effective method for control of sucking pest in cotton	5	T1:Spraying of monocrotophus 1ml/lit. T2:Seed treatment with 0.5 ml imidacloprid 17.8 SL and Foliar application of imidacloprid 17.8 SL @ 0.5ml/lit. T3: Smear with Imidacloprid 17.8 SL at 1:20 ratio – band application around stem. T4:Smear with Imidacloprid 17.8 SL at 1:20 ratio – at top tender green portion of plant.	40000	

1. Groundnut Varieties (Assessment) 2 nd year									
Title of Technology	: Ass	sessment of gr	oundnut varieties						
Problem Definition	Problem Definition : Smaller pod size & Lower yield								
Technology	Technology options being assessed along with justification								
Technology OptionsDetails of TechnologySource of TechnologyJustification									
TO 1 : Farmers Practice (FP)	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						
TO 2: (Recommended package of practices) RPP	KCG-2	UAS, Bengaluru	KCG - 2 is of bigger pod size, traders and farmers prefer, gives higher yield and tolerant to moisture stress						
TO 3 :Alternate Practice	KCG-6	UAS, Bengaluru	Short to medium duration, Medium size pods, More pods per plant, High shelling % and Oil content						

			Budget	; propose	d for OF	Т		
SI. No.	Option	2	s for Tec ed Pract		Critical inputs for Technology Option 3			
	Name	Qty. (Kg)	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty. (Kg)	Unit Cost (Rs.)	Total Cost (Rs.)
1.	Seeds	30	50	1500	Seeds	30	50	1500
			Total	1500		Total		1500

Total Budget (Rs.)	Area (ha)	Season	No. of Trials	Parameters to be recorded
21000	2	Kharif	07	No of pods /plant, Incidence of foliar disease, Test seed weight, Pod yield kg/ha.

Result of 2014-15

Technology Options	Avg Yield (qt/ha)	B:C ratio
T01 TMV-2 (FP)	7.3	1.8
TO 2 KCG-2	8.6	2.1
TO 3 KCG-6	9.1	2.4





2. Arecanut – French Bean (Assessment) – 3rd Year

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

Technology options being assessed along with justification

Technology Options	Details of Technology	Source of Technology	Justification
TO 1 : FP	Mono cropping	FP	No additional returns.
TO 2: RPP	Areca nut + Vegetable cowpea (0.8 ha)	UAS, Bengaluru	•More income •More biomass production
TO 3 : Alternate Practice	Areca nut + French bean (Arka Suvidha) (0.8 ha)	CPCRI /CHES Hirehalli (IIHR)	Highest bio mass production and income per unit area and increase in the organic carbon content

Budget proposed for OFT

Critical inputs for Technological options	Details of inputs	Rs./Qty	Total
To1: Arecanut sole cropping	Soil sample analysis– 2 Nos.(Before & after implementation.)	100/ sample	200
To2: Arecanut + Cowpea (O.2ha)	Cowpea- 3 kg Soil sample analysis- 1Nos.	Rs. 200/kg 100/ sample	600 100
To3: Arecanut + French beans (O.2ha)	French beans- 12kg Soil sample analysis- 1Nos.	Rs. 250/kg 100 /sample	3000 100

Total Budget (Rs.)	Area (ha)	Season	No. of Trials	Parameters to be recorded
28000	2.8 ha	Rabi / Summer	7	No of pods /plant, Green Pod yield/plant , Nutrient status, of inter crop and Yield (t/ha) of main and intercrop





Results 2014-15

Particulars	Pari	ameters o	f intercr	ops	Economics			
	Plant Height (cm)	No of branch es	No of pods/ plant	Length of Pods (cm)	Avg Yield (t/ha)	Gross return (Rs/ha)	Net income (Rs/ha)	B:C ratio
T01 (FP)	-	-	-	-	1.11	205350	135350	2.93
TO 2 Arecanut +Cowpea	60.2	18.0	50.4	14.8	1.15 2.2	2347 <i>50</i>	159150	3.10
TO 3 Arecanut + French Bean	43.2	15	38.5	13.4	1.20 3.4	262800	187200	3.47

Soil Test Report

Soil Status	% Organic carbon	Available N (mg/kg)	Available Phosphorus (mg/kg)	Available Potassium (mg/kg)
Before	0.11	115	8.5	56
After : T2	0.43	126	9.0	71
T3	0.55	151	9.5	90

3. Pomegranate	(Assessment)	– 2 nd Year
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Title of Technology	:	Evaluation of technology Pomegranate wilt	for	management	of
Problem Definition	:	Wilt problem			

Technology options being assessed along with justification

Technolog y Options	Details of technology	Source of Technology	Justification
TO 1 : FP	Application of FYM & Neem cake	-	-
TO 2: RPP	Drenching with Carbendazim @ 2gm/litre at 20 days interval.(20 litres of spray solution /plant – 3 times)	UAS B	moderately effective for the control of wilt but higher cost.
TO 3 : Alternate Practice	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.

Buda	jet	pro	posed	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.	Carbendazi m	2 Kgs	1200	1200	Actinobacter ia	10 Kg	150.00	1500
	1	Total	1	1200		Т	otal	1500

Total Budget (Rs.)	Area (ha)	Season	No. of Trials	Parameters to be recorded
18900	2	Kharif	7	% wilt, Yield parameters & yield

Results 2014-15

Particulars	No. Of plants infected per ha.	No. Of plants recovered per ha.	Parentage of plant recovered per ha.
TO 1 : FP	18	04	22.2
TO 2: RPP	15	07	46.6
TO 3 : Alternate Practice	20	14	70.0

35/10)



4. MANGO (Assessment) - New

Title of Technology	•	Assessment of Groundnut as a intercrop in Mango orchard for climate resilient agriculture
Problem Definition	:	Low soil fertility, more weeds infestation and Lower income

Technology options being assessed along with justification

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : FP	Solo cropping	-	-
TO 2: RPP	Mango + Horse gram	UAS, Bengaluru	Growing Horse gram as inter crop in mango gives more income and weeds will be controlled
TO 3 : Alternate Practice	Mango + Groundnut	UAS, Dharwad	More bio mass production, weed control and more income per unit area and increase in the soil organic content

Total Budget (Rs.)	Area (ha)	Season	No. of Trials	Parameters to be recorded
9450	2	Kharif	7	No of pods /plant, Nutrient status of inter crop and Yield (t/ha) of main and intercrop, Biomass .



Farmers Practice



Mango + Groundnut

			B	udget pr	oposed for C	PFT			
SI. No.									
	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	Groundn ut	15 kg	50	7 <i>50</i>	
	Soil sample	1 sample	100	100	Soil sample	1 sample	100/ sample	100	
		Т	otal	500			Total	850	

5. ASTER (Assessment) – NEW					
Title of Technology	:	Assessing the Performance of varieties of china aster (Callistephus chinensis Ness.) in Tumakuru district			
Problem Definition	:	Small size flowers, diameter, less shelf life, low attractive colour and low yield			
Rationale for selection of technology	:	Early flowering and more shelf life, 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, Bengaluru	Late flowering, Medium yield and97 g/plant, Semi double type with diameter (6 cm)
TO 3 : Alternate Practice	Phule Ganesh Pink (PG-8)	MPKV, Rahuri	High yielding, Large flower with diameter (7.37 cm) and attractive pink colour, more number of flowers per plant (42 – 44)
TO 4 : Alternate Practice	Arka Aadya	IIHR, Bengaluru	Arka Aadya yields 178 g/plant, Early flowering and more shelf life (4days), Loose flowers and bedding

Budget proposed for OFT

SI. No			r Technolo mended F			inputs for Technology 3		
	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)	Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)
1	Seeds	90g	10000 /kg	900	Seeds	90g	10000 /kg	900
	Total			900	Total	·	•	900

Critical inputs for Technology Option 4					
Name	Qty.	Unit Cost (Rs.)	Total Cost (Rs.)		
Seeds	90g	10000 /kg	900		
Total	900				

Total Budget (Rs.)	Area (ha)	Season	No. of Trials	Parameters to be recorded
13500	0.5	Kharif/ rabi	5	Size. Weight. No. of Flowers/plant, Yield



6. Cotton (Assessment) – NEW							
Title of Technology	:	Evaluation of effective method for control of sucking pests in Cotton					
Problem Definition	:	Severe incidence of sucking pest and spraying is not effective , high dosage of pesticides.					
Rationale for selection of technology	•	Easy for application, less labour and pesticide consumption, effective control with no air pollution					

Technology options being assessed along with justification

Technology Options	Details of Technology	Source of Technology	Justification
TO 1 : Farmers Practice	Spraying of monocrotophus1ml/lit.		-
TO 2: RPP	Seed treatment with 0.5 ml imidacloprid 17.8 SL and Foliar application of imidacloprid 17.8 SL @ 0.5ml/lit.	UAS, Bengaluru	High dose of insecticide results in higher cost of cultivation.
TO 3 : Alternate Practice	Smear with Imidacloprid 17.8 SL at 1:20 ratio – band application around stem.	KVK, Karimnagar	Less dose of insecticide with reduced cost of cultivation and no environmental hazard.
TO 4 : Alternate Practice	Smear with Imidacloprid 17.8 SL at 1:20 ratio – at top tender green portion of plant.	CICR, Nagapur	Increased effectiveness due to higher absorption by meristamatic tissue.

Budget proposed for OFT

Critical Inputs for Technology Option 2 (Recommended Practice)				Critical inputs for Technology Option 3			
Name	Name Qty. Unit Total (lit.) Cost Cost (Rs.) (Rs.)			Name	ne Qty. Unit Total (Lit.) Cost Cost (Rs.) (Rs.)		
Imidaclo prid	1	4000	4000	Imidacl oprid	0.5	4000	2000
Total		4000	Total		·	2000	

Critical inputs for Technology Option 4							
Name Qty. Unit Cost Total (Lit.) (Rs.) Cost (Rs.)							
Imidaclo prid	0.5	4000	2000				
Total	·	•	2000				

Total Budget (Rs.)	Area (ha)	Season	No. of Trials	Parameters to be recorded
40000	3	Kharif	5	No. of insects at apical , middle and lower leaves, % incidence, % saving in insecticide and labour and Yield





Details of FLDs of the KVK

Title	No. of demos	Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
1.Management of Soil Surface Crust in Red Soils *	12	FYM: 10 ton/ha Gypsum: 2ton/ha or Lime : 1.2 ton/ha depending on Soil pH. Arka Microbial Consortium: 25gm/litre	AICRPDA, UAS, Bengaluru	24000
2.Demonstration of Little Millet Var: Co- 6 as a Intercrop in Pigeon pea *	12	Little millet variety CO- 6 as a intercrop in Pigeon pea Row ratio – 1:4 Total Seed– 50 kg	AICRP on Small millets, Bengaluru	24000

* Support under NFSM

Title	No. of demos	Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
3.Enhancement of Pigeon pea yield through introduction of BRG-4 *	25	New Variety: BRG-4	UAS, Bengaluru	7 <i>5000</i>
4. High density planting of Banana(G-9)	03	Paired row planting with Zig Zag method 2 m x 1.2m x 1.2m Banana seedling -G-9	NRC Banana, Thrichy	52000

* Support under NFSM



Title		Technological Components to be demonstrated	Sources of technology component	Budget (Rs.)
5. Management of Mango Stem Borer by Sealer cum Healer	10	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, Bengaluru	12000





Title	No. of demos	Technological components to be demonstrated	Sources of technology component	Budget (Rs.)
6.Demonstration on Mango Harvester, ripening chamber and Packing	5	Mango Harvester, ripening chamber and Packing	IIHR, Bengaluru	30000
7. Leaf Test based Foliar Nutrient Application in Pomegranate	10	Leaf Tissue Analysis, FYM: 25 ton/ha RDF (400:200:200 gm per plant NPK)	IIHR, Bengaluru	12000
8.Triple disease resistant hybrid Arka Rakshak F1 hybrid – Tomato	5	Cultivation of Arka Rakshak F1 Hybrid resistant to Leaf curl, Bacterial Wilt and Early leaf Blight in Tomato	IIHR, Bengaluru	6000
9.Polythene mulch in Tomato	5	Use of polythene mulch for mulching in tomato production	IIHR, Bengaluru	30000

Title	No. of Demos	Technological components to be demonstrated	Sources of technology component	Budget (Rs.)
10.Integrated crop Management in Onion	8	Arka Kalyan seeds (High yielding, Tolerant to purple blotch diseases). Use of AMC for Nutrient Management Demonstration of Onion seed drill (IIHR) Use of Foliar nutrition(Vegetable special) Promoting seed production of potential varieties.	IIHR, Bengaluru	40000
11. Cost effective Arka Microbial consortium(AMC) for high quality and crop yield of Betelvine	10	Microbial consortium 10g/ltr drenching 500 ml per plant FYM 25 kg/plant RDF 50:50: 50 NPK kg/ha	IIHR, Bengaluru	9000

FLD on Millets

3

1.Management of Soil Surface Crust in Red Soils-New

A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PRO	_	
Crop	:	Ragi
Variety	:	ML-365
Yield	:	50 q/ha -potential
Problem	:	Formation of crust after sowing of Ragi due to the impact of Rain and subsequent failure of germination in dryland Red Soils
		Low germination leading to the 30–40 % reduction in yield (21.6 q/ha production in Tumakuru)
Solution	:	Use of Organic matter (FYM) , AMC, Gypsum and Lime
Technology components to be included in the FLD	:	FYM: 10 ton/ha Gypsum: 2ton/ha or Lime : 1.2 ton/ha depending on Soil pH. Arka Microbial Consortium: 25gm/litre Source : AICRPDA, UAS, Bengaluru

Critical inputs to be provided	Area (Acre)	No. of Farmers	Rs./Acre	Total Budget (Rs.)
Gypsum-2 t/ha or Lime- 1.2 t/ha Arka Microbial Consortium- 20 kg/ha	12	12	2000	2.4000





2.Demonstration of Little Millet Var: Co– 6 as a Intercrop in Pigeon pea–New

Crop	:	Little Millet/Saave (Panicum sumatrense)
Variety	:	Co- 6
Yield	:	Grain yield –6 qt/ha against 10 qt/ha
Problem	:	Lower income in Pigeon pea as a sole crop in rainfed condition.
		Pigeon pea is longer duration crop, prone to Biotic and Abiotic stresses leading to meager income.
		Inter space between rows of Pigeon pea underutilized for initial 70 days after sowing.
Solution	:	Sustainable income through Improved Little millet variety as intercrop in Pigeon pea for Rainfed situation.
Technology components to be	:	Little millet variety CO-6 as a intercrop in Pigeon pea
included in the FLD		Row ratio – 1:4 (Source – AICRP on Small millets, Bengaluru)

Critical inputs to be provided	Area (Acre)	No. of farmers	Rs./Acre	Total Budget (Rs.)
Seeds – 4kg/Acre Biofertilizers 5 Kg AMC in 500 kg FYM	12	12	2000	24000







3.Enhancement of Pigeon pea yield through introduction of BRG-4

Crop	:	Pigeon pea
Variety	:	BRG-4
Yield	:	6.5 qt/ha, Potential - 12 qt/ha
Problem	:	1.Local/Existing varieties are low yielding in rainfed Situation and unable to sustain drought situation
		2. More Incidence of pest and diseases in local/existing varieties.
		3.Use of Long duration varieties which are susceptible to terminal moisture stress.
Solution	:	1.Use of Improved short duration variety will escape drought as well as pest incidence coupled with high yielding ability.
		2.Integrated Crop management practices like INM, IPM, IDM, etc.,
Technology components to be included in the FLD	:	New Variety: BRG-4 Seed treatment – Rhizobium and PSB Neem based and other Insecticide spray for Pest management.
	-	

Critical inputs to be provided		No. of farmers	Rs./Acre	Total Budget (Rs.)
Seeds – 6 kg/Ac	25	25	3000	7 <i>5000</i>

		Result of 2	2014-15	
Critical inputs to be provided	Area (ha)	No. of farmers	Average yield of Demo Plot (q/ha)	Average yield check (q/ha)
Demonstration of BRG - 4	4	10	12.84 (11.8% more yield)	9.62





Farmer with BRG-4 FLD plot



4.High density planting of Banana

Crop	:	Banana
Variety	:	G-9
Yield	:	Potential - 75 ton/ha
Problem	:	Low plant density and low yield per unit area (35.41 t/ha)
Reasons	:	Insufficient use of land, conventional planting method
Solution	:	High density planting with zigzag method.
Technology components to be included in the FLD	:	Paired row planting with zig zag method 2 m x 1.5m x 1.5m Banana seedling (NRC on Banana, Trichy)

Critical inputs to be	Area (ha)	No. of	Total
provided		farmers	Budget(Rs.)
Banana suckers -5200 nos /ha	01	03	52000

Results 2014-15

Parameters	Demo Plot	Check
Plant height (ft)	4.2	4.4
Stem Girth (cm)	49.2	52.0
Number of plants (ha)	5200	3086

Average of 15 Plants Selected randomly from 3 farmers



5. Management of Mango Stem Borer by : Sealer cum Healer

Crop	:	Mango
Variety	:	Alphanso
Yield	:	3 tons/ha against 8 tons/ha
Problem	:	Severe incidence of Stem borer Lack of Awareness about the pest incidence, Control measures are not adopted
Solution	:	Educating the Farmers about the incidence of the Pest and demonstrating the IIHR Technology.
Technology components to be included in the FLD	:	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, Bengaluru)

Critical inputs to be provided	Number of	No. of	Total Budget
	trees	farmers	(Rs.)
Sealer cum Healer 1kg/tree	100	5	12000









Results 2014-15 (After Two Year implementation)

Parameters	Before Application	After Application
No. of grubs present (Avg)	7	-
Avg. Total length of stem damage	36.8 cm	-
Avg. Total length of healing of stem	-	18.6cm

6.Demonstration on Mango Harvester, ripening chamber and Packing

Crop	:	Mango
Variety	:	Alphanso
Yield	:	3 t/ha against 8 t/ha
Problem	:	Post harvest losses
		More number of Damaged fruits Without harvester through conventional method of harvesting, Lack of Knowledge on Scientific ripening and packing. -Most of the farmers are practicing this leading to Reduction in the level of income (50%).
Solution	:	Educating the Farmers about the use of Mango harvester, Scientific ripening chamber and Packing for better price.(Source: IIHR,B)
Technology components to be included in the FLD	:	Mango Harvester, ripening chamber and Packing

Critical inputs to be provided	No .of Demonstratio ns /Units	No. of farmers/ Family	Total Budget (Rs.)
Mango Harvester, Ripening chamber, crates and Boxes	5	5	30000







Particulars (1 Acre)	Gross Income(Rs.) from sale of Fruits	Cost(Rs.) involved in adoption of PHT	Net Income (Rs.)
With PHT (direct selling)	120000	8000	112000
Without PHT (through contractor)	56000	Nil	56000

7.Leaf Test based Foliar Nutrient Application in Pomegranate –New

Crop	:	Pomegranate
Variety	-	Bhagwa
Yield	:	13 ton/ha
Problem	:	Indiscriminate and Imbalanced fertilizer application , High micronutrient deficiency, low fruit quality and yield(8.27ton/ha in Tumakuru) Poor Soil with low organic carbon content, Micro nutrients
Solution	:	Based on Leaf Test Values identify the deficiency symptoms and balanced application of fertilizers (N, K, Ca, Mg, S, Fe, Mn, Cu, Zn, B)
Technology components to be included in the FLD	:	Leaf Tissue Analysis (8 th Leaf from tip) FYM: 25 ton/ha RDF (400:200:200 gm per plant NPK) Source: IIHR, Bengaluru

Critical inputs to be	Area (ha)	No. of	Total Budget
provided		farmers	(Rs.)
Leaf Tissue Analysis Gypsum 5q/ha Znso4-40 kg Boric Acid -5 kg Cu So4- 5 kg MgSo4-40 kg Sodium Molybdate-1kg 19:19:19 -5 kg	5	10	12000



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BRAFE FOR POTENTIA	i un i		
Anith-to-Shatta	0.00-1.25	0.45-0.68	1.16-2.42
Thumpson	-		
Soodiese Feriette	0.07-1.01		2.04-4.04
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BLR	0.87-1.64	810-0.35	2.65-5.30
OR QUALITY			
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Thurstein	davi		
Eendhese MANISO	132-231	0.36-0.75	1.14.0.20
Toteput	0.84-1.95	0.00-0.14	0.551.10
Amone	0.78-3.85	B-03-0.10	0.77-1.73
Plaiapari	0.89-1.98	0.06-0.11	103-501
ACELINE	1.53-2.10	0.10-0.18	0.97-1.08
BANAME	1000		
Robuste	2.27-5.56	0.05-0.17	2.686.11
E Eluida	1.43-3.50	05.09-0.00	
CLUCH.	1.63=1.96	0.18-0.24	1.31-1.71
FOREGRAW	1.12-2.07	0.14-0.22	0.551.81
FADAVA	2.28	0.76	実施
PHEAPPLE	tät	0.16	
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- Select a vegetative terminal, unless othorwise specified.
- Collect a composite sample from North, East, West and South of the plant's canopy.
- Select leaves which are fully exposed to sontight and avoid sampling leaves in shade.
- Collect samples prior to irrigation and fertilizer application.
- Avoid sampling solled, diseased and insect affected or mechanically damaged plants.
- Avoid sampling from areas having unushal feature eg. rocky areas etc. Do not sample when plants are under water or temperature stress.
- 7. Avoid contamination of sample.

LEAF SAMPLING TECHNIQUE

LEAF SAMPLING METHOD FOR DIFFERENT FRUIT CROPS

Ciop	Pant Part to be Sampled	Age, Stage, Position and other specifications	Sargie Ne (No)
Mango	Leaves excluding people	Collect 4 to 7 months old leaves from the middle of the shoot (non-flowering-cluster)	90
Banana	20 cm ² ut leaf lamina on both sicks midnb on centre of leaf peticle or mid	Third fully opened kell which is about 20 days old	80
Guava	Leaf	Third pay of leaf (counting one from the growing tip) in August	30

or Decorriber

Crop	Plant Part to be Serviced		airgin stt
Pros- apple	Base of equi	Fully developed leaf in Ath leaf from proving Tex	50
Grape	Petcie	For Patiential Vield At bud differentiation stops (20 to 35 days after bud burnt) colocer petrole at bits wol poetion (start counting one at the tase of the stop) Previous year Bample in single pruning system For Quality : At blocm stoped 5th leaf position from base.	200
Pome granate	Laut	If the part of leaves (counting from the growing tp) from the new growth in the month of April and August for Fobracy and June croce metpectively	100
Sapota	Lent	10th leaf from a new flusti initiated in the month of September.	70
Gustard apple	Leaf with Petrole	Sth leaf from the growing tip side in the month of May from the new flush.	朝
Citrus Acid Lime	Leaf with Pesole	4 month shoot of new growth tet lead in June.	50
Mandarin	Lout	and leaf in Aug. to Get. month from Ambe Sahar.	50
LIDH	LesY	2nd pair of leaflets from tip - 0 month from witcess fusit.	50
Fig	Loui	921 last from apex in April for August orbp.	25



8. Demonstration of Triple resistant Tomato Hybrid-Arka Rakshak

Crop	:	Tomato
Veriety	:	Arka Rakshak F1 Hybrid
Yield	:	55 t /ha against 75 t/ha of potential yield
Problem	•	Increased cost of cultivation due to higher use of Pesticide. Lack of Suitable Hybrid for Summer season. Lack of Suitable Hybrid for Processing.
Solution		Educating the Tomato growers on new hybrid
Technology components to be included in FLD	:	Arka Rakshak F1 Tomato Hybrid.(Source – IIHR,B) resistant to Leaf curl, Bacterial Wilt and Early leaf Blight in Tomato





Critical inputs to be	Area (ha)	No. of	Total Budget
provided		farmers	(Rs.)
Arka Rakshak Tomato Hybrid seed – 100g/ha	01	05	6000



	Resi	lt of 2014	4-15	
Critical inputs to be provided	Area (ha)	No. of farmers	Average yield of Demo Plot (t/ha)	Average yield check(t/ha)
Arka Rakshak Tomato	01	05	41.37 (25.5% more	32.94
The second second		B. C.	yield)	ALL ALL

9. Polythene mulch in Tomato

Crop	:	Tomato
Variety	:	Hybrid
Yield	:	55 t/ha
Problem	:	weed menace, Low nutrient use efficiency and low yield Water scarcity, soil borne diseases and pest incidence problem of in vegetables cultivation
Solution	:	Use of plastic mulching
Technology components to be included in the FLD	:	Use of polythene mulch for mulching in tomato production (IIHR, Bengaluru)





Critical inputs to be	Area (ha)	No. of	Total Budget
provided		Farmers	(Rs.)
Polythene mulch (50mm micron) – 15 roles/ha (135 kg /ha)	01	05	30000





With out mulching



Results 2014-15

Particula rs	Parameters			Economics			
	No of fruits /plant	Fruit weight (g)	Avg Yield (t/ha)	% increase d yield	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C ratio
Demo	48	97.8	76.25	14.66	3,05,00 0	239150	4.6
Control	39	52.4	66.5		2,66,00 0	189800	3.4

Benefits:

- * Addl. yield of 10 t /ha = Rs. 40,000/-
- * More crop per unit of water (2 acres can be irrigated instead of one by using plastic mulch)

Feedback:
Water saved (50%)
Only family members could manage to weed out and not depended on external labours
Harvested more yield and good quality fruits.

10. Integrated crop Management in Onion – NEW

0		0.1
Crop	:	Onion
Variety	:	Arka Kalyan
Yield	:	20 t/ha against potential 40 t/ha
Problem	:	Use of local low yielding varieties.
		Most of the farmers are using substandard local available seeds.
Solution	:	30– 40% productivity can be increased by use of quality seed of improved varieties along with improved package of practice
Technology components to be included in the FLD	:	Arka Kalyan seeds (High yielding, Tolerant to purple blotch diseases). Demonstration of Onion seed drill (IIHR) Use of Foliar nutrition(Vegetable special). Use of Arka Microbial Consortium for Disease management. Promoting seed production of potential varieties.

Critical inputs to be	Area (ha)	No. of	Total Budget
provided	/ Number	Farmers	(Rs.)
Arka Kalyan- 10 kg/ha	03	8	40000





11. Cost effective Arka Microbial consortium(AMC) for high quality				
	and crop yield of Betelvine – New			
Crop	:	Betelvine		
Variety	:	Local		
Yield	:	30 lakh leaves/ha		
Problem	:	Non application of Chemical Fertilizer.		
		High Pest and Diseases incidence,		
		Poor drained soils		
		Areca nut is supporting tree and poor		
		decomposed litters.		
		Low nutrient use efficiency and soil fertility		
		Poor leaf quality and low yield (21 lakh		
		leaves/ha)		
Solution	:	AMC which contain N fixing, P& Zn solubilizing and PGPR bacteria. Improves the soil structure, plant growth and vigor. Increases the yield upto 17%.		
Technology	:	Microbial consortium 10g/ltr drenching 500		
components to be		ml per plant		
included in the FLD		FYM 25 kg/plant		
		RDF 50:50: 50 NPK kg/ha (IIHR, Bengaluru)		

Critical inputs to be	Area (ha)	No. of	Total Budget
provided		Farmers	(Rs.)
Arka Microbial Consortium– 60kg/ha	2	10	9000



ಅಣುಬಂಧ - ೨ ವೀಳ್ಯದೆಲೆಯಲ್ಲಿ ಸಾವಯವ ಕೃಷಿ

वंतरसंसदयं उत्तरत्वलं

ಸು ದುಡಿ ತುಡಾರಿಸುವನ ಮನ್ನಗೆ "ಅರ್ಕು ಬೇವಾಲು ಗೊಬ್ಬರ", ಬೇಟನ ಹಿಂಡಿ ಮತ್ತು ಕಲ್ಲ ರಂಜಕ ಸೇರಿಸುವುದರಿಂದ ಸಭ್ಯತ ಸಸಿ ಪಡೆಯಲುವುದ

ಒಂದು ಟರ್ ಸಗಳ ಗೊಬ್ಬರ್ ಸೂರು ಕೆ.ಸಿ. ಬೆಸಿದ ಹಿಂಡಿ ಮತ್ತು 10 ಕೆ.ಸಿ.'ಆರ್ಕ ಚೀವಗಲ ಗೊಬ್ಬರ್ ಸಗರಿ 20 ದಿವರ ಬಡಿ. ಆರಾಧ ನಂತರ ಪ್ರತಿ ಬಳಿಯ ಬಂಡಕ್ಕೆ ಹಿಂದು ಕೆ.ಸಿ. ಬಕ್ತಗ ಹಾಕಿ. ಎರಡು ತಿಂಗಳ ನಂತರ ಪ್ರತಿ ಬಳಿಯ ಬಂಡಕ್ಕೆ 100 ಗ್ರಾಂ "ಆರ್ಕ್

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100 ಕೆ.ಪಿ. ಸಾಸ್ ಗೊಬ್ಬಂಗ್ಯೆ 1 ಕೆ.ಪಿ. "ತಿಗಡ್ ಫ್ಲೇ" ಮಿಕ್ರನ ಮಾಡಿ ಒದ್ದೆಯಾದ ಗೋನ ಚೇರ ಮುಖ್ಯ 20 ದವಸ ಬಾಹಿ. ಇಪ್ಪತ್ತು ದಿವಾದ ಸಂತರ ಈ ಮಿಕ್ರಣವನ್ನು 1 ಟರ್ ನಾಸ್ ಗೊಬ್ಬದನ್ನು ಸೇವಿಸಿ ಪ್ರತಿ ಬಳ್ಳಿಯ ಬುಡಕ್ಕೆ ಒಂದು ಕೆ.ಪಿ. ಯಪ್ಪು ಹಾಕಿ, ಇದರಿಂದ ಯಾವುದೇ ತಂಡದ ಗೋಗ್ ಡೋಗದ ಸಿವಾರಣೆಯಾಗವುದು ಮತ್ತು ಬಳಿಯ ಬೆಳವಣಿಗೆ ಪ್ರದ್ರಿಯಾಗುವುದು.

ಸಸ್ಯ ಮದಿಗಳಿಗೆ ಈ ಮೇಲಿನ ಬುದ್ರತ ಮತ್ತು "ಟೈಕೋಡವರ್ಡ" ಪಾಕುದ್ರದರಿಂದ ಉತ್ರಮ ರೋಗದಲ್ಲಿತ ಸತ್ಯ ಪಡೆಯಲ್ಲಿರುವ

ಕೊಳೆ ದೋಗದ ಪ್ರಕೋಟಿಸಾಗಿ ಮಳಿಗಾಲದ ಮುಂಚೆ ನೇಶಾಜ ಒಂದರ "ಬೋರ್ಟೋ" ಪ್ರಾಥಣ ಪ್ರತಿ ಬಳ್ಳಿಗೆ ಸಂಪರಣೆ ಮಾಡಿ ಮತ್ತು "ದೋಡೋಗ ಪೇಸ್ನ"ನ್ನು ಬುಡದಿಂದ 2 ಅದಿಯ ವರೆಗೆ ವೇಸ್ಟ್ ಮಾಡಿ.

בנקט המשלטה בסופי לינסיו בניים משביב שניים שליניים היומים המשב



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

Critical inputs to be provided	Total budget(Rs.)	No of Demonstrations /Units
Weighing balance, Sealing machine, Vermi celli maker, Labels, Packing materials	20000	O2 SHGs







Results

- Trainings conducted
- D Nagenahalli 50 farmers and farm women participated
- KVK Hirehalli 32 farm women participated
- Oorkere village 20 farm women participated



Activities calendar for cluster village 1 . Kallambella –Sira Tq Major crops/enterprises of the village: Arecanut, Banana, Coconut, Tomato, Ragi, Betelvine, Redgram

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Areca nut	Monocropping	Intercropping in areca nut with French bean CPCRI	OFT & Trainings
Banana	Low plant Density & low yield Current yield-28.6 t/Ha Potential yield-42 t/Ha	High density planting of Banana (G-9) NRC Banana, Thrichy	FLD, Group Discussion, Method Demonstration, Trainings and field days
Minor Millets	Use of local varieties Grain yield –6 qt/ha against 10 qt/ha	Little millet variety CO-6 as a intercrop in Pigeon pea Row ratio – 1:4 (Source – AICRP on Small millets, Bengaluru)	FLD, Group discussion, Field day & Trainings
China Aster	Small size flowers, less shelf life and low yield Current yield– 8.6 t/ha Potential yield– 12.5 t/ha	Varieties: Kamini, Phule Ganesh & Arka Adya	OFT Trainings Contd.,

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Betelvine	Poor Soil and nutrient Management, Low keeping quality	Arka Microbial consortium IIHR,Bengaluru	FLD ,Group Discussion, Method demonstration, Trainings and field days Print Media and Folder
Pigeonpe a	Use of local varieties Current yield- 07 qt/Ha Potential yield- 12 qt/Ha	Enhancement of Pigeonpea yield through introduction of BRG-4 variety	FLD, Group discussion, Field day & Trainings
Groundn ut	Śmaller 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

Activities calendar for cluster village 2. Vaddarahalli–Koratagere Tq Major crops of the village: Ragi, Paddy, Maize, Tomato, Frenchbean, Pigeonpea, Banana, China Aster

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention		
Ragi	Soil crusting in Red soil, Delayed monsoon, long duration ragi , Moisture stress, Use of low yielding varieties Current yield-11.2 Qt/Ha Potential yield- 30 Qt/Ha	Gypsum, AMC and Organic Manures, Drought tolerant Ragi ML -365 UAS B	FLD Trainings / Field day		
Minor Millets	Use of local varieties Grain yield -6 qt/ha against 10 qt/ha	Little millet variety CO-6 as a intercrop in Pigeon pea Row ratio – 1:4 (Source – AICRP on Small millets, Bengaluru)	FLD, Group discussion, Field day & Trainings		
			Contd		

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Tomato	Water scarcity, weed menace and low yield	Plastic mulching in tomato production IIHR,Bengaluru	FLD , Trainings /Field day
Mango	Low soil fertility, Monocropping, Lower income Current yield–9 t/ha Potential yield– 15 t/ha	Groundnut as a intercrop in Mango orchard for climate resilient agriculture UAS , Dharwad	OFT Trainings
Banana	Low plant Density & low yield Current yield– 28.6 t/ha Potential yield– 42 t/ha	High density planting of Banana (G-9) NRC Banana, Thrichy	FLD, Group Discussion, Method Demonstration, Trainings and field days
China Aster	Small size flowers, less shelf life and low yield Current yield– 8.6 t/ha Potential yield– 12.5 t/ha	Varieties: Kamini, Phule Ganesh & Arka Adya	OFT Trainings

Activities calendar for cluster village 3. Belagumba–Tumakuru Tq Major crops of the village: Arecanut, Mango, Banana, Tomato, Brinjal, French bean, Ragi, Maize

Crop/ enterpris e	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Mango	Stem borer infestation Heavy fruit infestation % pest Incidence – 12.6	Management of Mango Stem Borer by Sealer cum Healer Use of Pheromone Trap for control of fruit fly in Mango IIHR, Bengaluru	FLDs Trainings
	Pre & Post harvest loss High cost involved in ripening	Mango Harvester , low cost ripening chamber & Packing IIHR, Bengaluru	FLD Trainings & Method Demonstration

Contd...

Crop/ enterpris e	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Tomato	Water scarcity, weed menace and low yield	Plastic mulching in tomato production IIHR,Bengaluru	FLD , Trainings /Field day
Tomaco	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, Bengaluru	FLD Trainings /Field day
Ragi	Soil crusting in Red soil, Delayed monsoon, long duration ragi , Moisture stress, Use of low yielding varieties Current yield-11.2 Qt/Ha Potential yield- 30 Qt/Ha	Gypsum, AMC and Organic Manures, Drought tolerant Ragi ML -365 UAS B	FLD Trainings / Field day

Activities calendar for cluster village 4. Midigeshi-Madhugiri Tq Major crops/enterprises of the village: Pigeonpea, Groundnut, Ragi, Tomato, Pomegranate, Mango, Betelvine

Crop/ enterpris e	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Pigeonpee a	Use of local varieties Current yield– 07 qt/Ha Potential yield– 12 qt/Ha	Enhancement of Pigeonpea yield through introduction of BRG-4 variety	FLD, Group discussion, Field day & Trainings
Groundnu t	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
Pomegran ate	Indiscriminate use of Fertilizers and poor soil health., Low yield Current yield- 8.5 qt/Ha Potential yield- 12 qt/Ha	Leaf Test based Foliar Nutrient Application	FLD & Trainings Contd

Crop/ enterpris e	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Onion	Non availability of quality seed of improved varieties	Onion Production Technology IIHR, Bengaluru	FLD, Field day & Trainings
Betelvine	Poor Soil aeration and nutrient Management, Low quality & yield	Arka Microbial consortium IIHR,Bengaluru	FLD ,Group Discussion, Method demonstration, Trainings and field days

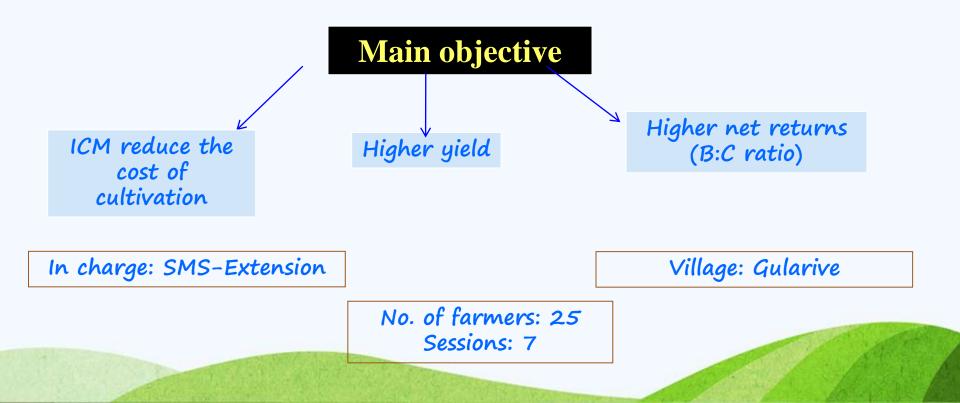
Activities calendar for cluster village : 5.Arasikere-Pavagada Tq Major crops/enterprises of the village: Pomegranate, Groundnut, Ragi, Mango

Crop/ enterprise	Problem (Quantify)	Availability of Technologies and the Sources	Nature /mode of intervention
Pomegra nate	Indiscriminate use of Fertilizers and poor soil health.	Leaf Test based Foliar Nutrient Application	OFT, FLD & Trainings
	Wilt & Bacterial Blight, Low yield Current yield- 8.5 qt/Ha Potential yield- 12qt/Ha	Evaluation of technology for management of Pomegranate wilt	
Mango	Stem borer infestation Heavy fruit infestation % pest Incidence – 12.6	Management of Mango Stem Borer by Sealer cum Healer, Use of Pheromone Trap for control of fruit fly in Mango (IIHR, Bengaluru)	FLD Trainings
Groundn ut	Smaller pod size & Lower yield Current yield- 06 qt/Ha	Assessment of Ground nut varieties KCG -2 and KCG - 6	OFT
	Potential yield- 15 qt/Ha		1 All A

Farmers Field School

Title of FFS: Integrated Crop Management (ICM) in Chilli

Problem Definition: Chilli 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.



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 improve the net returns.

Learning process

Chilli growers/farmers will learn about the ICM approaches by actively involving from seed to harvest.

•The Farmers group will observe ICM technologies (IIHR) pertaining to different critical stages.

The interaction supported with visual aids will enhance the farmers' knowledge and skill through experiential learning.

The focus will also be on comparing the improved methods with the conventional methods followed by farmers.

Stage of Demo	Activity	Inputs	Demo to be used
Field preparation	Soil Testing importance	_	Method Demonstration
Nursery Stage	Seed Treatment, Raise beds, erection of Nylon net	Seeds(F1) Seedpro, net	Method Demonstration
Transplanting Stage	RDF , Plastic mulching, Seedling treatment, application of AMC	RDF, AMC, Mulching sheet	Method Demonstration
Vegetative Stage	Application of Vegetable Special, IPDM	Vegetable Special, IPDM Components	Method Demonstration
Flowering stage	-do-	-do-	Method Demonstration
Fruiting Stage	IPDM	IPDM Components	Method Demonstration
Harvesting Stage	РНТ	-	Result, Method Demonstration and Field Day

Budget

Particulars	Amount (Rs.)
1. Seeds	3000
2. Soil Testing	-
3.INM (Vegetable Special, Seed	6000
pro, AMC), RDF	
5. IPDM (Imidachloprid, Neem	
Soap, Kavach, Dicofol, Quintal)	
6.Field sessions (AV-Aids,	13000
Refreshments)	
7. Publication	3000
8. Field day	5000
Total	30000









Integrated Farming System





Integrated Farming System

Integrated Farming System as Diversified Agriculture /Livelihood

Intervention	No. of	Area	Cost per	Total
	farmers	(ha.)	unit (Rs.)	(in Rs.)
Integrated Farming System • Agri- Horti. Silvi- Pasture system • Compost pit • Fish rearing • Farm Pond • Honey Bee • Bio digester • Nutrition garden • Azolla	05 (1 Per taluk)	5	10000	50000

IFS Farmers Details

A State of the second					
Name of the Farmer	Village & Taluk	SMS involved	Area (Acr e)	Components	
Krishnaiah	Sangapura Gollarahatti, Tumkur	K.N.Jagadis h	2.5	Flower, Fruits crops Animal husbandry, Poultry, Agriculture	
Krishnappa	Bangarigow danahatti, Sira	Somashekh ar	4	Ragi, Sunflower, Coconut, Vegetables, Livestock	
Chikkappaia h	Kalenahalli, Madhugiri	Prasanth JM	3.2	Horticulture, Livestock, Tree based Farming , Agriculture	
Mohan Kumar			3.2	Mangalavada, Pavagada	B.Hanumanteg owda
Ravi	Baichenahall i, Koratagere	P.R.Ramesh	2.5	Floriculture, Livestock, Tree based Farming System, Agriculture	

National Initiative on Fodder Technology Demonstration (NIFTD) 2015–16

I. Technology Demonstration Module (TDM)–I

Sl. No.	Technologies	No. of Demonstration	Approximate Budget (Rs.)
1	Round the year forages : Bajra napier grass (BNH- 10/ CO-3)	3	15,000
2	Rainfed forage production: Forage sorghum (COFS-29)	4	10,000



Total Area -2.0 ha

II. Technology Demonstration Module(TDM)-II

Sl. No.	Technologies	No. of Demos	Approximate Budget (Rs.)
1	Horti-pasture model: Coconut/Mango + Guinea grass/Cowpea	3	10000/-
2	Silvipasture model: Melia dubia (tree) + Guinea grass	1	5000/-

Total Area - 1.0 ha



Silvipasture system



III. Technology Demonstration Module (TDM)-III

Sl. No.	Technologies	No. of Demos	Approximat e Budget (Rs.)
1	Urea treatment of crop residues	4	
2	Silage preparation/hay making	3	10,000/-
3	Area specific mineral mixture	3	



Spraying of urea solution on straws



Wet conservation as silage

Results of NIFTD in 2014-15

Technology	No. of Farmers proposed	No. of Farmers adopted	Green Fodder yield in Demo (t/ha)	Green Fodder yield in Check (t/ha)
Round the year forages :Bajra napier grass (BNH-10/ CO-4)	3	2	112.8	85.6
Rainfed forage production: Forage sorghum (COFS-29)	4	20	87.4	54.1
Horti–pasture model: Coconut/Mango + Cowpea–COFC–8	3	3	38.5	27.9
Silvipasture model: Melia dubia (tree) + Guinea grass	1	1	81.6	7 <i>5.</i> 4



Innovative Programme

Assessment of Arecanut cutting machine under NIF in Tumakuru district

Collaborative partners : National Innovation Foundation –NIF, Ahmadabad

Justification : Arecanut is considered to be an highly commercial crop in Tumakuru. Due to the labour scarcity, timely operation of Arecanut grading and cutting is not happening in proper manner. There is a need for an innovative mechanization for this process to save time and labor. An innovative machinery has been developed by a innovative farmer which will be evaluated during 2015-16 in collaboration with NIF. The machine will be tested for quality cuttings based on need and saving in man power. A proposal has been submitted and an amount of Rs. 1.6 lacs approved from NIF will be utilized for the innovative programme.

Mode of operation : Procurement of areca nuts for trials and providing logistic facilities for shipment of machine at the selected venue. Experts will be invited for Evaluation based on different selected parameters.

Areca nut cutting machine







Activities calendar of each SMS (Plant Breeding)

Village	Crop/ enterpri se	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget Proposed (Rs.)
		OFT		
Sakshihalli	Ground nut	Assessment of Ground nut varieties KCG -2 and KCG -6	Radha Banakar Jagadish K N	21000
		FLD	•	•
Bukkapattan a	Red gram	Enhancement of Pigeon pea yield through introduction of BRG-4 variety	Radha Banakar Ramesh	7 <i>5000</i>
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
Bukkapattan a	Onion	Integrated crop Management in Onion	Banakar Prashanth J M	40000
Sakshihalli, Belgumba	Minor millet	2Demonstration of Little Millet Var: Co– 6 as a Intercrop in Pigeon pea	Radha Banakar Ramesh	24000 Contd

Village	Crop/ enterpris e	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed (Rs.)					
Training pro	Training programmes for Farmers/ Farm Women								
Sakshi halli	Pigeon pea	Improved production practices post harvest technology in Pigeonpea.	Radha Banakar	3000					
Ganadhun ase	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					
Mallasandr a	Fodder Crops	Recent technologies in forage crops	Radha Banakar Ramesh P R	10000					
Training Pro	ogrammes f	or Extension persons							
Hirehalli	Vegetable s	Seed Production in Vegetables	Radha Banakar Prashant J M	5000					
Sponsored Training Programmes									
Urkere	Red gram	Improved Seed production in Red gram (sp by KSSC LTD.Tumakuru)	Radha Banakar Prashant J M						
NY CASA AND SP				Contd					

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

Demo/ Production Units/ Labs	Crop/ enterprise/ Activity	Physical Target for the year (Kg)	Approxima te Expenditur e (Rs.)	Revenue (Rs.)
	Ragi- ML=365	500	10000	20000
	Fox tail millet	200	5000	10000
	Redgram –BRG4	500	15000	30000
	Tomato –Arka Meghali	20	18000	30000
	Brinjal – A Shirish	20	14000	24000
	Chilli – A Suphal	30	15000	36000
Seed Production	French Bean – Arka Suvidha	1000	50000	150000
	Bhendi – A Anamika	500	65000	150000
	Pumpkin – A Chandan	20	25000	60000
	Ridge gourd –A. Sumeet	50	20000	30000
	Onion – A.Kalyan	200	70000	200000
	Radish –A. Nishant	50	10000	15000
	Amaranthus- A.Suguna	20	4000	6000
	Papaya – A.Prabhath	2	50000	200000
	Total	3,112	3,71,000	9,61,000

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 (Rs.)
D.Nagenahall i	Mango- OFT	Assessment Groundnut as a intercrop in Mango orchard for climate resilient agriculture	J.M.Prashanth K.N. Jagadish & B.H.Gowda	16200
D. Nagenahalli, Kallambella, Vaddarahalli	Ragi-FLD	Management of Soil Surface Crust in Red Soils	K.N.Jagadish	24000
Kallambella	Betelvine -FLD	Cost effective Arka Microbial consortium(AMC) for high quality and crop yield of Betelvine	KN Jagadish, J.M.Prashanth , B.H.Gowda	9000
Arasikere, Sakshihalli, Haralur	Pomegran ate-FLD	Leaf Test based Foliar Nutrient Application in Pomegranate	J.M.Prashanth , KN Jagadish,	12000

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 (Rs.)
Trainings for 1	^f armers/Farm v	vomen/Rural youth		
D.Nagenahall i	Soil health management	Enhancement of soil fertility through different bio- fertilizers	Jagadish.K.N Shashidhar.K.N	3000
D, Nagenahlli, Kallambella,	NRM	Soil and water conservation.	Jagadish.K.N Shashidhar.K.N	3000
Baichanahalli , Hosapalya	Ragi - FLD	Red Soil Management	Jagadish.K.N, B.H.Gowda	3000
Kallambella	Betelvine- FLD	Use of Arka microbial consortium Method of compost production.	Jagadish.K.N, J.M.Prashanth, Shashidhar.K.N	3000
Kataveerana halli, Kallambella	Mango & Arecanut- OFT	Intercropping system & Nutrient management in Areca nut & Mango	J.M.Prashanth	3000



Village	Crop/ enterprise	Activity as leader (Title of Training title)	Other members of the team	Budget propose d (Rs.)
Trainings for farm	ers/Farm won	hen/Rural youth		
Kallambella	Betelvine	Organic farming in horticulture crops	Jagadish.K.N	3000
D. Nagenahalli	Mango, Banana Papaya	Soil and water conservation	Shashidhar.K. N	3000
Arasikere	Horticultura l crops	Importance of Soil , Leaf and water testing	Shashidhar.K. N	3000
Belgumba, Durgadahalli,	IFS	Integrated farming system for sustainable agriculture	Prashanth.J.M Jagadish.K.N	3000
Kallambella	Horticultura l crops	Enhancement of soil fertility through different bio-fertilizers	Jagadish.K.N Shashidhar.K. N	3000
Haralur, Arasikere	Fruit crops	Sampling method for leaf analysis	Jagadish.K.N Shashidhar.K .N	3000
				🐷 Contd

∨illage	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 (Rs.)	
Trainings for Exte	nsion Personnel				
Tumakuru District	Tomato, Betelvine	Use of Arka Microbial Consortium for sustainable production	Prashanth.J.M	5000	
Tumakuru District	Banana, Mango, Vegetables	Micronutrient management in Horticulture crops	Jagadish.K.N Shashidhar.K.N	5000	
Vocational Trainin	9	· · · · · ·			
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	
Sponsored Programmes					
	Agri & Hort crops	Organic farming practices	Jagadish.K.N Shashidhar.K. N		
				Contd	

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

Demo/ Production Units/ Labs	Crop/ enterprise/ activity	Physical Target for the year in Kg	Approximate Expenditure (Rs.)	Approximat e Revenue (Rs.)
Banana Special	Production of Banana Special	3000	280000	450000
Mango Special	Production of Mango Special	2000	190000	300000
Citrus special	Production of Citrus Special	1000	95000	150000
Vegetable Special	Vegetable Special	2000	80000	300000
Arka microbial consortium	Mass production	2000	50000	150000
VAM	VAM Production	3000	80000	100000
Fruit Fly Traps	Mango, Gauva, Annona	25000 Nos	1800000	2500000
Soil, water and leaf test	All horticulture and Agriculture crops	2500 samples	150000	250000
	Total		2725000	4200000

	Activities calendar of SMS (Horticulture)					
Village	Crop/ enterprise	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	members of	Budget proposed (Rs.)		
		OFT				
Ariyur, Vaddarahalli	Areca nut	Assessment of Areca nut – French bean intercropping system for high soil fertility and higher income	K.N. Jagadish Somashekar, P.R. Ramesh	32400		
D.Nagenahalli, Teeta	China Aster	Assessing the Performance of varieties of china aster (Callistephus chinensis Ness.) in Tumakuru district	K.N. Jagadish Somashekar, P.R. Ramesh	13500		
		FLD's				
Chiksarangi, Karadigere	Tomato	Technology demonstration on plastic mulching in tomato production	K.N. Jagadish P.R. Ramesh	30000		
Kallambella, Mulukunte	Banana	Maximization of yield through High density planting of Banana (G-9)	PRRamesh, KNJagadsih	52000		



Village	Crop/ enterprise	Activity as leader (training title)	Other members of the team	Budget proposed (Rs.)
	TI	rainings -Farmers/Farm women	L	
Kallambella	Areca nut OFT	Improved production practices in Areca nut	K.N. Jagadish Somashekar	3000
Karadigere, Chiksarangi	Tomato FLD	Importance of plastic mulching in tomato	K.N. Jagadish P.R. Ramesh	3000
Kallambella, Gulur	Banana FLD	Production practices in banana cultivation	P.R. Ramesh K.N. Jagadish	3000
D Nagenahalli Kodigenahalli	Dry land horticultur e FLD	Importance of dry land horticulture crops and their production practices	P.R. Ramesh K.N. Jagadish	3000
D Nagenahalli, Teeta	Flowers	Production practices of Commercial flowers	PRRamesh, K.N. Jagadish	3000
Kodigenahalli, Baichenahalli	IFS	Importance of Horticulture in IFS	Ramesh, K.N. Jagadish	3000



Village	Crop/ enterprise	Activity as leader (training title)	Other members of the team	Budget proposed (Rs.)	
		Trainings –Rural youth			
KVK Hirehalli	Vegetables	Raising of quality vegetables seedlings through pro-trays	Jagadish K.N. Somashekar	3000	
	•	Vocational trainings	•		
KVK Hirehalli	Coconut	Coconut Friends	PRRamesh, BHGowda	6300	
KVK Hirehalli	Fruit Crops	Propagation Techniques in Fruit Crops	Jagadish K.N. Somashekar	6300	
Sponsored trainings					
KVK Hirehalli	Fruit crops	Commercial Floriculture	PRRamesh, Jagadish KN	-	



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

Demo/ Production Units	Crop/ enterprise/ activity	Physical Target for the year	Approximat e Expenditure (Rs. in Lakhs)	Approximate Revenue (Rs. in Lakhs)
Model Nursery unit	Areca nut Coconut	0.52 Lakh seedlings	5.0	10
	Fruit crop seedlings	0.40 Lakh seedlings	3.5	7.5
	Vegetables seedlings	0.30 Lakh	0.30	0.60
Total			8.8	18.10

Activities calendar of SMS (Plant 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 (Rs.)
Arasikere	Pomegrana te-OFT	Evaluation of technology for management of Pomegranate wilt	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	18900
Sakshihalli	Cotton- OFT	Evaluation of effective method for control of sucking pest in cotton	Somashekhar, P.R.Ramesh Jagadish.K.N	40000
Arsikere, Belagumba	Mango- FLD	Management of Mango Stem Borer by : Sealer cum Healer	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	12000

Village	Crop/ enterprise	Activity as leader (Title of trainings)	Other members of the team	Budget proposed (Rs.)	
Trainings for far	mers/Farm wom	en/Rural youth			
Arsikere	Mango-FLD	IPDM in Mango	P.R.Ramesh Jagadish.K.N Shashidhar.K.N	3000	
Midegesi	Pomegranate -OFT	Pest and Disease management in Pomegranate	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	3000	
Sakshihalli	Cotton-OFT	IPDM in Cotton	Somashekhar, P.R.Ramesh Prashanth.J.M Shashidhar.K.N	3000	
Vaddarahalli	Ragi-FLD	IPDM in Ragi	P.R.Ramesh Prashanth.J.M Shashidhar.K.N	3000	

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 Exte	nsion Personnel		·	
Tumakuru District Horticulture Dept. officials	Plantation Crops	IPDM in Coconut	P.R.Ramesh Prashanth.J.M Shashidhar.K. N	6000
Tumakuru District Agriculture Dept. officials	Groundnut	IPDM in Groundnut	P.R.Ramesh Jagadish.K.N Shashidhar.K. N	6000
Vocational Trainin	9			
Selected Rural youths from all clusters	Bio control agents	Mass production of Trichogramma chelonis for the control of fruit and shoot borer in Brinjal	J.M.Prashanth Jagadish.K.N Shashidhar.K. N	6000
		•		

Contd...

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	3000	270000	300000
Pongamia soap	Production of Pongamia Soap	1000	90000	125000
Mango Healer cum Sealer	Production	1000	60000	100000
	Total		420000	525000

Activities calendar of SMS (Home Science)

Village	Crop/ enterpri se	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed (Rs.)	
FLD					
Kallambella	Mango	Demonstration on Mango Harvester , low cost ripening chamber & Packing	Somashekhar Prashanth JM	2.5000	

		EDP		
Kallambella D Nagenhalli	Ragi	Branding and Labelling of value added products from Ragi – 2 SHGs	Somashekhar Ramesh P R	30000

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 (Rs.)
	Trainii	ng programmes for Farmers/ Farm	n Women	
Kallambella	Minor millets	Processing and value addition in minor millets	Somashekhar	2500
Nagenhalli	Ragi	Processing, value addition and marketing techniques in ragi	Somashekhar Prashanth JM	3000
Bellagumba	Mango	Demonstration on Mango harvester, low cost ripening chamber and packing	Somashekhar Prashanth JM	3000
Arakere	Horticult ural crops	Processing and value addition	Somashekhar Prashanth JM	4000
	-	Training Programmes for Rural Yo	outh	
Hirehalli	Ragi	Processing & value addition to Ragi	Somashekhar Prashanth JM	3000
KVK Hirehalli	Mushroo m	Mushroom cultivation	Somashekhar	2500

Village	Crop/ enterpris e	Activity as leader (Title of OFT, technology in FLD, training title , specify any other activity)	Other members of the team	Budget proposed (Rs.)
	Tra	aining Programmes for Extension po	ersons	
Tumakuru		Health & Nutrition	Somashekhar	5000
Koratagere	IGA	IGA for SHG groups	Somashekhar	5000
	Vo	cational Training Programmes		
KVK	Hort. Crops	PHT in horticultural crops	Somashekhar	7000
	Sp	onsored Training Programmes	1	
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	1500 Kg	45000	90000
Amla Candy	Value addition	100 Kg	10000	30000
Amla Juice	Value addition	1000 ltr	50000	150000
Amla Supari	Value addition	25 Kg	3000	6000
Ragi Malt	Value addition	200 Kg	3000	30000
		TOTAL	111000	306000

Activities calendar of 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 proposed (Rs.)
	Traini	ng Programmes for Extension p	persons	ł
Hirehalli, Tumakuru		Community based organization	Shashidhar. K.N	5000
Hirehalli, Tumakuru		ICT for farm entrepreneur	Shashidhar. K.N	5000

Farmers Field School					
Gularive, Tumakuru		ICM in Chilli		ALL SMS	30000

Activity calendar for Farm Manager

Seed Production

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

Special Activity

Organic nutritional	Area: 0.4 ha	-
garden		



Planting material

Sl. No.	Сгор	Variety	Type – Seedling / Grafts	Quantity
1.	Arecanut	Hirehalli tall	Seedling	0.50 lakh
2.	Coconut	Tiptur tall	Seedling	2000
3.	Mango	Alphanso, Mallika	Graft	3000
4.	Sapota	PKM, Cricket Ball	Graft	2500
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	0.60 Lakh

Activity calendar for Programme assistant (L.T)

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
Arecanut plate making Demo	20000 Nos.	15000	30000	-	Shashidhar.K .N

Activities other than the above:

 Involved in assisting for conducting the training Programmes/FLD/OFTs.
 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)

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

Other Activities

- Compilation and Preparation of all reports (SAC, Action plan, MPR, DARE Report, Cabinet Report, Annual Report) and power point presentation.
- Entering of Monthly and Annual Report data to Online Reporting System .
- 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)		
1.Micro nutrient management in Vegetables with an emphasis on Vegetable special technology:	 Pamphlets Training for farmer 	 Mass media Community Based Organization 		
2. ICM in Mango with an emphasis on Mango Special technology	• Mango Special-1000 Kg • Pamphlets	 Mass media Farmer to farmer spread Collaboration with HOPCOMS and State Horticulture Department, Tumakuru 		
3. Arka microbial consortium in vegetable production with a special emphasis on Arka microbial consortium	 Workshop for extension personnel Folder 	 Mass media Convergence with line department and collaboration with ATMA 		

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)
	 Collaboration with KMF Seed production – 800 kg 	 Mass media Farmer to farmer spread Collaboration with Karnataka Milk Federation for buy back arrangement of seeds and State Horticulture Department, Tumakuru District
 5.French bean Arka Suvidha demonstrated in FLD with Selection-9 	• To meet the demand of the seed Arka Suvidha an exclusive FLD on seed production is being proposed	 Under NHM & RKVY scheme French bean seed production is being taken up for large quantity production

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

Seed Production

Sl. No.	Сгор	Variety	Quantity (Kg)
1.	Tomato	Arka Meghali	20
2.	Brinjal	Arka Shirish	20
3.	Chilli	Arka Suphal	30
4.	French Bean	Arka Suvidha	1000
5.	Bhendi	Arka Anamika	500
6.	Pumpkin	Arka Chandan	20
7.	Ridge gouard	Arka Summit	50
8.	Onion	Arka Kalyan	200
9.	Radish	Arka Nishant	50
10.	Amaranthas	Arka Suguna	20
11.	Mushroom Spawn	Hu (Oyster)	1500

Planting Material

Sl. No.	Crop	Variety	Type – Seedling / Grafts	Quantity (Nos.)
1.	Arecanut	Hirehalli tall	Seedling	0.50 lakh
2.	Coconut	Tiptur tall	Seedling	2000
3.	Mango	Alphanso, Mallika	Graft	2000
4.	Sapota	PKM, Cricket Ball	Graft	2500
5.	Guava	L49, Pink flesh	Graft	1000
6.	Tamarind	PKM-1	Graft	1000
7.	Amla	NA5, NA7	Graft	4500
8	Jamoon	Gokak	Graft	1000

Bio-control agents / botanicals /Micronutrient fertilizer

Sl. No.	Name	Туре	Quantity (Kg)
1.	Neem soap	botanicals	3000
2.	Pongamia Soap	botanicals	1000
3	Arka Microbial consortium	Bio control agents	2000
4	Arka coco peat	Bio control agents	1000
5	Banana special	Micronutrient fertilizer	3000
6	Vegetable Special	Micronutrient fertilizer	2000
7	Mango Special	Micronutrient fertilizer	2000
8	Citrus special	Micronutrient fertilizer	1000
9	Fruit fly traps	Bio control	25000 Nos.
10	Sealer cum Healer	Plant protection	1000

Details of Budget Estimate (2015–16) based on proposed action plan

SI. No.	Particulars	BE 2015-16 proposed (Rs. In Lakhs)
1	Recurring Contingencies	
1.1	Pay & Allowances	143.63
1.2	Traveling allowances	5.00
1.3	Contingencies	18.25
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.00
B	POL, repair of vehicles, tractor and equipments	4.50
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	2.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	2.00
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	3.14
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	1.31
G	Training of extension functionaries	0.50

Sl. No.	Particulars	BE 2015–16 proposed (Rs. In Lakhs)
Н	Library	0.50
1	Extension Activities	1.00
J	Farmers Field School	0.30
K	IFS	0.50
L	NIFTD (National Initiative on Fodder Technology Demonstration)	0.50
	TOTAL Recurring Contingencies	166.88
2.	Non-Recurring Contingencies	
a.	Works	100.00
b .	Equipments including SWTL & Furniture	27.00
с.	Vehicle (Four wheeler/Two wheeler, please specify)	-
d.	Library (Purchase of assets like books & journals)	0.10
	TOTAL Non-Recurring Contingencies	127.10
3	REVOLVING FUND	-
	GRAND TOTAL	293.98

Soil, Leaf, and Water Analysis

Sl. No.	Analysis	Quantity(Nos.)
1.	Soil	1000
2.	Leaf Analysis	1000
3.	Water	500

Revolving Fund Status (Rs. in Lakhs)

Opening balance as on 01.04.2014 (Rs.in Lakh)	Expenditure incurred during 2014– 15 (Rs.in Lakh) as on 31.01.2015	Receipts during 2014-15 (Rs.in Lakh)	Closing balance as on 31.01.2015 (Rs.in Lakh)	Expected closing balance by 31.03.2015 (Including value of material in stock)
33,42,292	3,15,737	2,82,892	51,83,748	60,35,870

Additional Activities-External Projects during 2015-16

Name of the Project	Source of Fund	Amount Sanctioned in 2014–15 (Rs. in lakhs)	Physical Targets to be achieved
Technology demonstration component NICRA	CRIDA, Hyderabad	18.00	Farm pond -10 Check dam- 02 Trench cum bunding - 10 ha Seed production- 2.5 ton Animal shed-02
Establishment model Nursery at KVK Hirehalli	NHM, GOK	25	Fruit crop Seedlings- 40,000
Participatory Vegetable Seed Production and distribution system	rkvy, Gok	40	1. Onion Seed- 2000 Kg. 2. Okra - 500 kg

