



ICAR-Krishi Vigyan Kendra (IIHR) Hirehalli, Tumakuru, Karnataka

Annual Review Workshop
ICAR-CCARI, Goa
4-6, May, 2017

General Information of KVK



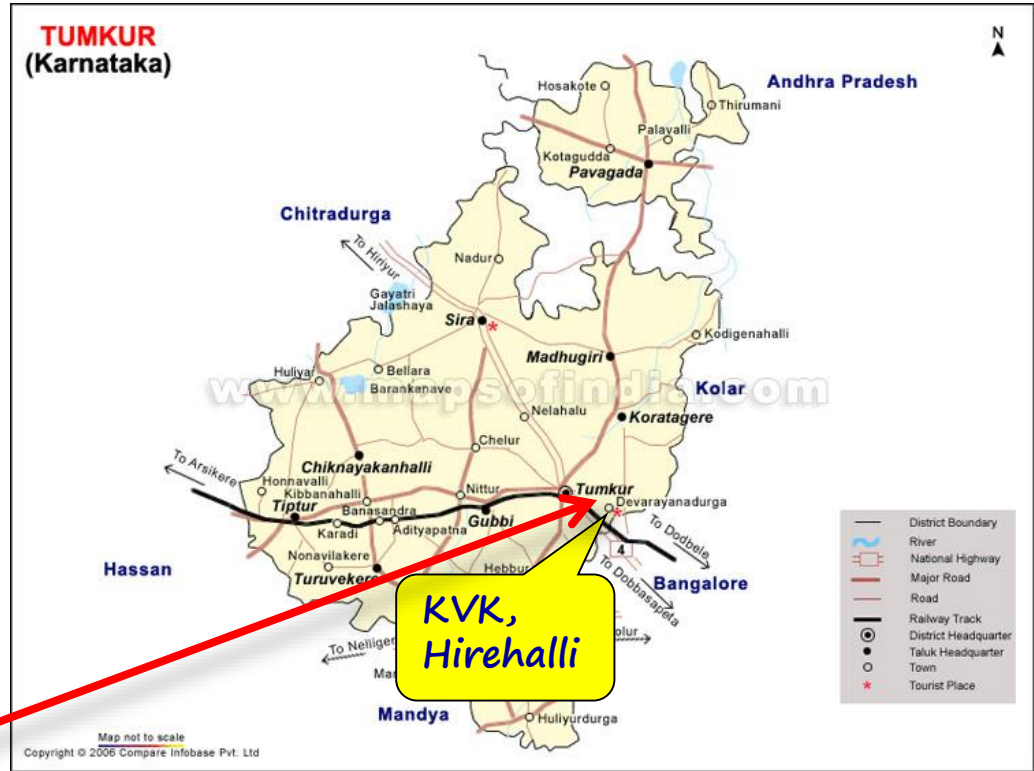
Year of sanction	: 2009-10
Address	: NH-4, Hirehalli, Tumakuru-572168 Karnataka
Host Institute	: Indian Institute of Horticultural Research, Bengaluru
Phone No./ Fax No.	: 0816-2243175/ 2243177
E-mail	: ihrkvk@gmail.com
Website	: www.ihrkvk.org
Total no. of staff	: 15
Area	: 42 acres



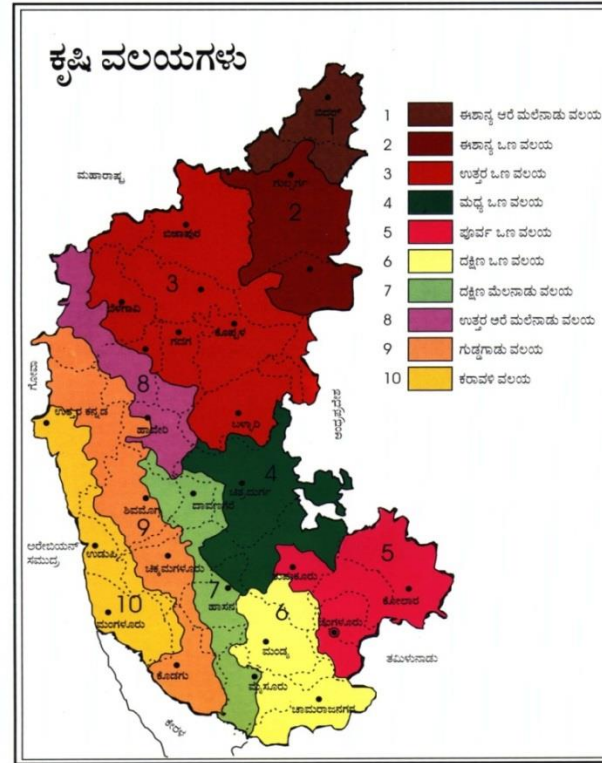
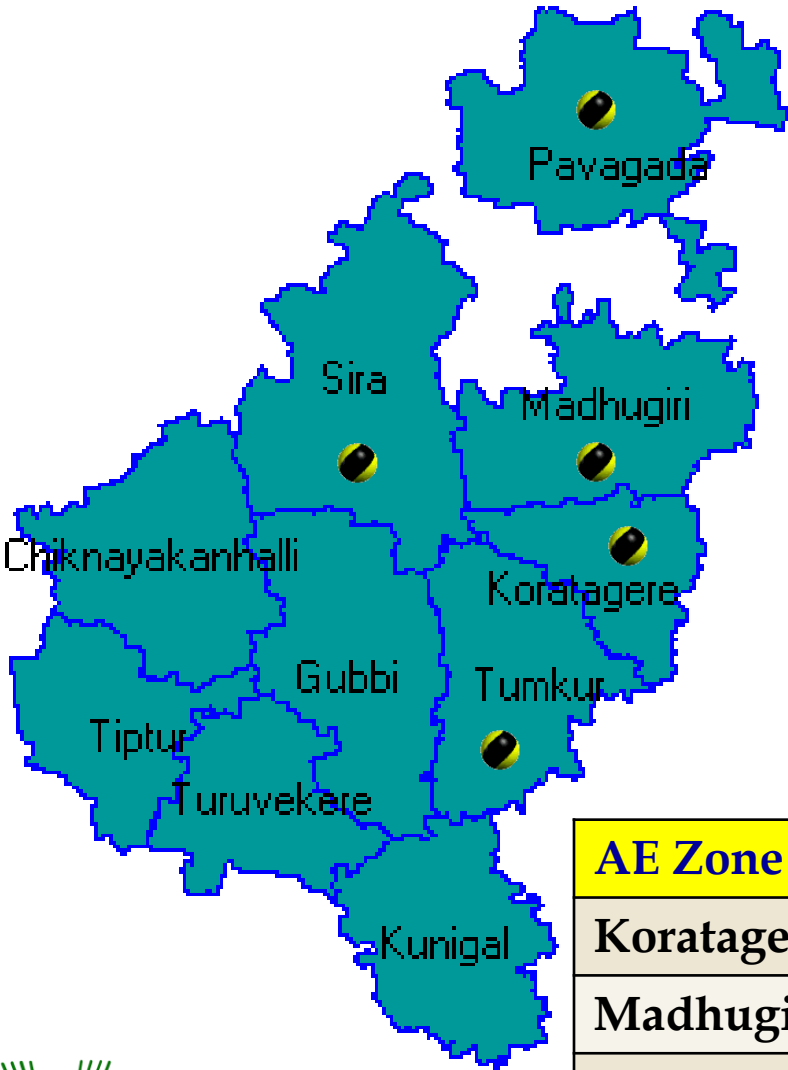
Particulars	P.C	SMS	P.As	Admn.	Drivers	Supportin g	Total
Sanctioned	01	06	03	02	02	02	16
Filled	01	06	03	01	01	02	15



Location



Jurisdiction of KVK , Hirehalli



AE Zone - 4 (Central dry)	AE Zone - 5 (Eastern dry)
Koratagere	Tumakuru
Madhugiri	
Pavagada	
Sira	

District- At a glance



Name of agro-climatic zone	:	Central and Eastern - Dry Zone
Soil type	:	Red sandy and Red Loamy Soils
Annual rainfall (mm)	:	584 mm
Total Geog Area	:	10,64,755 ha
Population (2011)	:	26,78,980
Total Gram Panchayats	:	321 (172 in our taluks)
Total villages	:	2574 (1272 in our taluks)
Major farming systems/enterprises	:	Dry Land Agriculture, Horticulture & Dairy
Major crops	:	Ragi, Groundnut, Coconut, Arecanut, Fruits and Vegetables
Major irrigation source	:	Bore well, Tank, Canal, Open well



Mandate and activities of KVK

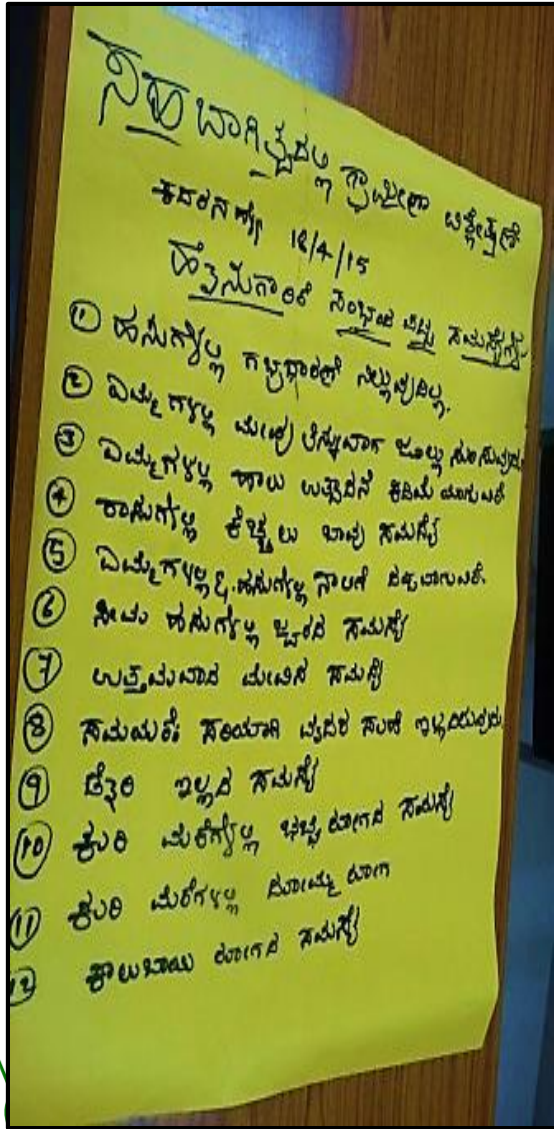
Main mandate of the KVK is **technology assessment, refinement and demonstration of technologies/products.**

The activities of KVK include

1. **On-farm testing** to identify the location specificity of agricultural technologies under various farming systems.
2. **Frontline Demonstrations** to establish production potential of technologies on the farmers' fields.
3. **Training of farmers** to update their knowledge and skills in modern agricultural technologies, and **training of extension personnel** to orient them in the frontier areas of technology development.
4. **To work as resource and knowledge centre** of agricultural technology for **supporting initiatives of public, private and voluntary sector** for improving the agricultural economy of the district.
5. In order to create awareness about improved technology, **a large number of extension activities** will be taken up.
6. **The seeds and planting materials produced** by the KVKs will also be made available to the farmers. (Source: Website of ATARI, Zone VIII)



PRA activities in taluks under jurisdiction – Every 3-4 years



SIRA



MADHUGIRI



PAVAGADA



KORATEGERE



Operational Areas

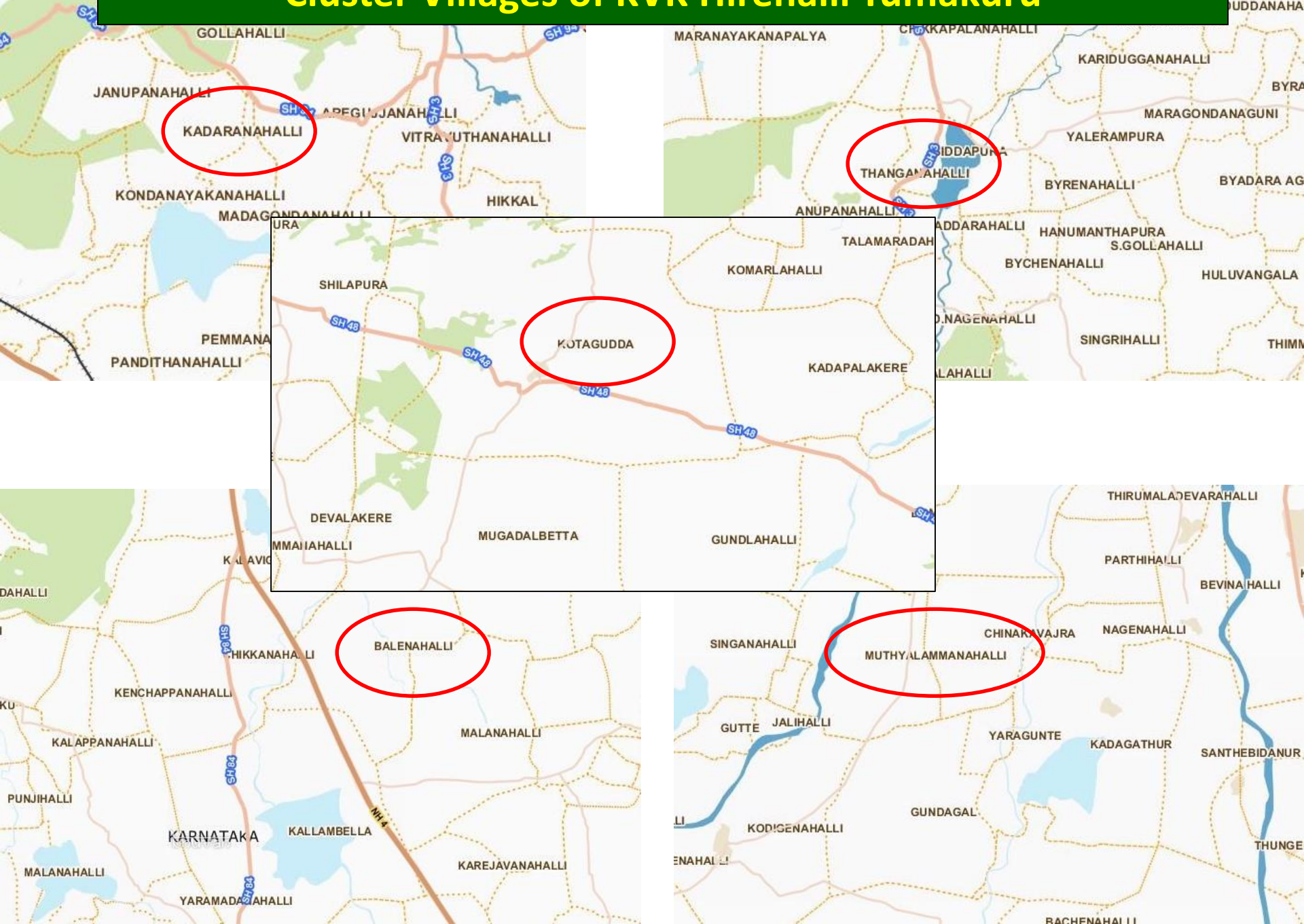
Taluks	Cluster Villages
1. Tumakuru	Kadaranahalli, Janapanahalli, Durgadahalli
2. Koratagere	Tanganahalli, Anupanahalli, Vaddarahalli, Eleramapura, D.Nagenahalli
3. Madhugiri	Muthyalammanahalli, Kodigenahalli
4. Sira	Balenahalli, Tippanahalli, Halenahalli
5. Pavagada	Kotagudda , Kariyammanapalya, Ponnasamudra, Mangalawada



Tumakuru



Cluster Villages of KVK Hirehalli Tumakuru



Thrust Areas

No.	Thrust Areas
1	High Yielding Varieties / Hybrids
2	Seed treatment with Bio Fertilizers and Fungicides
3	Soil test based fertilizer application
4	Integrated Nutrient Management
5	Intercropping / Mixed / Multistoried Cropping System
6	Seed Production Techniques in Vegetables and field crops
7	Integrated Pest & Disease Management
8	Post harvest technology in Vegetables and Fruits
9	Soil and Water Conservation
10	Drudgery Reduction among women
11	Income Generating Activities and Value Addition
	Child and Women care and balanced Nutrition



Major Problems Identified

- ▣ Button Shedding in Coconut
- ▣ Drying of Coconut gardens
- ▣ Red gram - Sterility Mosaic
- ▣ Pomegranate - Bacterial blight
- ▣ Mite attack in Jasmine

- ▣ Multiple issues in Mango
- ▣ Low yield in vegetable and flower crops
- ▣ Lack of improved varieties
- ▣ Wild boar problem
- ▣ Anaemia among adolescent rural girls

OFTs and FLDs are based on the above mentioned issues and suggestions from SAC and feedback from visiting farmers



Abstract of Interventions during 2016-17

Sl.No.	Interventions	Numbers
1	On Farm Testing	5
2	Front Line Demonstrations, NFSM, NMOOP	14+2
3	Farmers Field School	1
4	Entrepreneurship Development Programme	1
5	Integrated Farming System for farmers	1
6	Training of farmers and extension personnel	51
7	Extension Activities for Awareness creation	-
8	KVK Farm activities & Production of Seeds, Planting materials and IIHR products	-
9	Supporting initiatives of public, private & voluntary sector	-
10	Demo units and facilities created	-
11	External Projects handled	-
12	RFS, Budget utilized	-

7th Scientific Advisory Committee -28th Mar 2017



Details of target and achievements of mandatory activities-2016-17

OFT				FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement

Training				Extension Programmes			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement

Seed Production (Qtl.)		Planting materials (Nos.)	
Target	Achievement	Target	Achievement
19.60			
Seed kit (Nos)			

Bio-products (Kg)	
Target	Achievement
BF & BP- 6000 kg	
PT - 2500 (Nos.)	
Sealer cum Healer	

Home Science products		Micro Nutrient Fertilizers (Kg)	
Target	Achievement	Target	Achievement
Amla Candy-100 kg		8000	18318
Amla squash- 1000 ltrs			
Ragi Malt-50 kg			
Mushroom Spawn (Kg)			



Activities of SMSs

- SMS (Soil Sci) – PR Ramesh
 - OFT--
 - FLD-3
 - Production of AMC, Fruit fly trap, Micro nutrient specials
 - SWTL Lab
 - NICRA Project
 - NABARD Project
 - CA Project
 - Trainings
 - FFS, IFS
 - Extension activities
 - In-charge (Purchase)
- SMS (Horti) – JM Prasanth
 - OFT-2
 - FLD-4
 - Production of Planting Materials
 - Trainings
 - Extension activities
 - FFS, IFS
 - In-charge (Farm)

Activities of SMSs

- SMS (PP) – B.H.Gowda
- OFT-1
- FLD-3
- Production of Neem soap, Pongamia soap, Sealer cum Healer
- Trainings
- FFS, IFS
- Extension activities
- In-charge (Works)
- SMS (PB) – Somashekar
- OFT--
- FLD-1
- NFSM, NMOOP FLDs-2
- Production of Vegetable seeds and seedlings
- Participatory seed production
- Bhusamruddi Project
- Trainings
- Extension activities
- In-charge (Store)

Activities of SMSs

- SMS (HS) – Radha R Banakar
- OFT-2
- FLD-2
- EDP - 1
- Production of Mushroom Spawn & Amla, Ragi based products
- Trainings – Mushroom, Value addition
- Bhusamruddi Project
- Extension activities
- SMS (Extn) – Jagadish KN
- Trainings
- Extension activities (Field days, Exposure visits etc)
- Publications (Newsletters, Website, Whatsapp service)
- Documentation of success stories
- FFS, IFS
- Support to public, private and voluntary sector (ATMA, FPO)
- In-charge (Farmers Hostel)
- In-charge (Vehicle)



On Farm Testing

Abstract of OFTs during 2016-17

Sl. No.	Title	In-charge SMS
1.	Assessment of commercial flower crops in Coconut based Cropping System	SMS (Horti)
2.	Assessment of onion varieties for Rabi	SMS (Horti)
3.	Assessment of high yielding varieties of Redgram for disease tolerance	SMS (PP)
4.	Assessment of agricultural crop waste as substrate for Oyster Mushroom Cultivation	SMS (HS)
5.	Assessment of weeders as drudgery reducing equipments in Groundnut	SMS (HS)

1. Assessment of Onion varieties for Rabi

Problem: Non-availability of suitable Onion varieties during Rabi season

Technology Options	Details of technology	Source of Technology	Justification
T1: RPP	Arka Kalyan	IIHR, Bengaluru	<ul style="list-style-type: none"> • Recommended for Kharif and Rabi • Bulb shape -Globsoe • 130 days to Maturity with dark red color • Average bulb storage (< 1 month).
T2 :AP	Bhima Super	DOG, Pune	<ul style="list-style-type: none"> • Recommended for late Kharif and Rabi • Bulb shape -Round • 115-120 days to Maturity with Medium red • Better storage (up to 4 months)
T3 : AP	Bhima Shakti	DOG, Pune	<ul style="list-style-type: none"> • Recommended for late Kharif and Rabi • Bulb shape -Round • 110-115 days to Maturity with • Better storage



Arka Kalyan



Arka Kalyan



Arka Kalyan



Bhima Shakti

OFT-2016-17



OFT Plot



Arka Kalyan

Bhima Shakti

Arka kalyan

Bhima Shakti



Bhima super



Bhima super

Bhima Shakti

Bhima Super



2016-17

Particulars	Crop Particulars				Economics				B:C Ratio
	Plant Height (cm)	No of leaves /plant	Avg Bulb Weight (G)	Bulb Diameter(cm)	Yield (q/ha)	COC (Rs.)	Gross Income (Rs/ha)	Net Income (RS/ha)	
Arka Kalyan	54.80	7.8	77.42	5.52	260.40	56950	156240	99290	2.74
Bhima Super	50.20	8.1	72.92	5.23	210.70	55640	126420	70780	2.27
Bhima Shakti	60.12	8.6	86.23	5.63	290.30	56950	174180	117230	3.05



2. Assessment of commercial flower crops in Coconut based Cropping System

Problem: Mono-cropping practices in coconut garden

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : FP	Monocropping	FP	No additional income, No space utilization
TO 2: RPP	Coconut + Marigold	UHSB	Less profitable income, Kharif season crop
TO 3 :AP	Coconut+ China Aster (Arka Kamini - IIHR)	CPCRI Kasaragod	More Profitable income, Both Kharif and Rabi crops can be taken
TO 4 : AP	Coconut + Chrysanthemum (Yellow Gold / Kurnool)		More Profitable income, Both Kharif and Rabi crops can be taken

Coconut + Marigold

Coconut + Chrysanthemum

OFT- 2016-17



Coconut + Aster



Coconut + Marigold



Coconut + Aster



Coconut + Chrysanthemum

Results (2016-17)

Particulars	Intercrops Particulars			Economics				B:C Ratio
	Plant Height (cm)	Flowers /plant	Flower Diameter (cm)	Yield	COC (Rs./ha)	Gross Income (Rs./ha)	Net Income (Rs./ha)	
Coconut	-	-	-	6302	26800	63020	36220	2.35
Coconut +	-	-	-	6350	26800	63500	36700	3.00
Marigold		47	4.80	3852	32850	115560	82710	
Coconut +	-	-	-	6220	26800	62200	35400	2.60
Aster		42	4.21	2485	30750	86975	56225	
Coconut +	-	-	-	6580	26800	65800	39000	3.10
Chrysanthemum		54	4.32	3942	51550	146025	94475	

3. Assessment of Red gram varieties for disease tolerance & Higher yield

Problem	Higher disease incidence and reduced yield
SMS	SMS (PP)
Cluster	Balenahalli - Sira and K.T.Halli -Pavagada

Technology Options	Details of Technology	Source of Technology	Justification
TO 1 : FP	Local variety	—	Highly susceptible to Sterility mosaic and wilt disease and reduced yield.
TO 2: RPP	BRG-5	UAS, Bengaluru	Tolerant to wilt and long duration.
TO 3 : Alternate Practice	GRG -811	UAS , Raichur	Tolerant to Sterility mosaic and wilt and medium duration and higher yield

Results 2016-17

Details of technology	Disease incidence		Height of the Plant in cms	Test weight In gms	Yield Per ha In Qtls	Gross Cost In Rs.	Gross Returns In Rs.	Net Return In Rs.	B:C ratio
	Sterility Mosaic (%)	Wilt Incidence (%)							
T1: Local variety	5.68	10.46	152.4	11.80	8.64	23,580	51,840	28,260	2.19
T2: BRG-5	2.98	4.68	173.6	14.50	12.1	26,780	72,600	45,820	2.72
T3: GRG 811	2.16	5.01	130.6	12.10	12.9	26,780	77,400	50,620	2.89



BRG-5



GRG-811

4. Assessment of Agricultural crop waste as substrate for Oyster Mushroom Cultivation

Problem Definition	:	<ul style="list-style-type: none"> •Lack of availability of paddy straw in Tumakuru district. • Food insecurity in rural families.
Rationale for selection of technology	:	Finding alternate substrates which are locally available for oyster mushroom cultivation.Coconut coir and areca nut husk which are abundantly available can be effectively utilized for mushroom cultivation to achieve food and nutritional security.

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : FP	Paddy Straw	IIHR, Bengaluru	-
TO 2: RPP	Coconut coir	Directorate of Mushroom Research, Solan / CPCRI, Kasargod	-
TO 3 :Alternate Practice	Arecanut husk		Use of locally available Agricultural waste like Coconut coir, Areca nut husk
TO 4 :Alternate Practice	Ragi Straw		

Details of technology	Biological Efficiency (%)	B C Ratio
Paddy Straw	82	2.50
Coconut coir	20	1.57
Arecanut husk	45	1.80
Ragi Straw	78	2

5. Assessment of Weeders as drudgery reducing equipments

Problem Definition : Drudgery involved in weeding in groundnut

Rationale for selection of technology : Increased Labor problem in agriculture, Need to reduce the cost of production for sustainable agriculture



Weeding method	weeding efficiency (%)	REBA Score	Expenditure for 1 Ac weeding
Farmers practice	91	12.44	4500 (100%)
Cycle weeder	75	5.89	1500 (33.3%)
Twin wheel hoe weeder	82	5.11	1800 (40%)
Balaram weeder	85	8.25	2250 (50%)

*REBA- Rapid Entire Body Assessment

REBA Score	Risk Level
1	Negligible
2-3	Low
4-7	Medium
8-10	High
11-15	Very High

Frontline Demonstrations



Abstract of Front Line Demonstrations during 2016-17

No	Title	In-charge SMS
1.	Management of soil surface crust in red soils in finger millet	Soil Sci
2.	ICM in Pomegranate	PP
3.	Improved production practices and post - harvest management in Mango	HS
4.	ICM in Marigold	Horti
5.	ICM in China Aster	Horti
6.	ICM in Jasmine	PP
7.	ICM in Tomato	Horti
8.	Areca nut + French bean intercropping system	Horti
9.	ICM in Onion	PB
10.	Nutritional garden in schools	HS
11.	ICM in Coconut	Soil Sci
12.	Usage of Arka Microbial Consortium in Betelvine	Soil Sci
13.	Management of wild Boar in farming system	PP
14.	Demonstration on Jackfruit value addition, branding and market linkage	HS

1. Management of Soil Surface Crust in Red Soils in Finger millets

Thrust Area	Soil and Water management
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 30-40 % reduction in yield (21.6 q/ha in Tumakuru)
Technology demonstrated	FYM: 10 ton/ha, Gypsum: 2 ton/ha depending on Soil pH. Arka Microbial Consortium: 25 gm/litre, 200 ml/plant
Place	Kadaranahalli, Tumakuru
No. of Farmers	10
Remarks	Poor crop growth due to mid season drought (45 days) during Aug-Sep, 2016 and about yield will be reduced by almost 30%.



Control



Treatment



Results 2016-17

Particulars	Avg. Plant height (cm)	Soil Bulk Density (g/cc)	Avg. Panicle weight (g)	Avg. Yield (q/ha)	% Increase	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonstration	50.9	1.63	15.8	11.9	35.2	24,950	35700	10750	1.4
Check	40.1	1.75	11.3	8.8		22,500	26400	3900	1.1

Farmers Feedback

- Application of FYM, Gypsum and AMC improved the soil structure and reduced the soil compaction.
- Increased the Ragi yield by 35.2% compared to farmers practices
- Up scaling : Started Mass production of AMC under NABARD project to produce 3.5 tons of AMC

2. ICM in Pomegranate

Crop	: Pomegranate
Variety	: Bhaguva
Yield & Area of District	: 10 t/ha, 1,829 ha
Problem	: Lack of awareness on application of nutrients Higher incidence of wilt and BLB, Reduced yield up to 30-50 %.
Solution	: 1. Application of correct RDF and Micronutrients based on soil and leaf test analysis. 2. IPDM measures
Technology components to be included in the FLD	: INM and IPDM Package
Source of Technology	: NRCP, IIHR and UAS, Dharwad
Season & Year	: Kharif & Rabi, 2017-18
Parameters to be taken	: Growth parameters, % disease incidence Yield and economics
SMS	: SMS (PP)
Cluster	: Madde and Mangalawada of Pavagada taluk

Critical inputs to be provided	Area (ha)	No. of Farmers	Rs./Acre	Total Budget (Rs.)
1. Neemcake -250 kg 2. Arka Microbial consortium - 10 kg 3. Streptocycline- 375 g 4. Blitox- 2.5 kg 5. Carbendazim - 1 kg	2	5	9,000	45,000

Results 2016-

17

Details of technology	Disease				Yield Per ha In Qtls	Gross Cost In Rs.	Gross Returns In Rs.	Net Returns In Rs.	B:C ratio
	Wilt Incidence (%)	% Leaf blight	% Stem blight	% Fruit blight					
Demo plot	1.62	26.99	22.34	8.30	8.92	1,29,800	5,35,200	4,05,400	4.12
Control	8.64	64.28	52.82	28.61	6.88	1,46,000	4,12,800	2,66,800	2.83

3.Improved Production practices and Post Harvest Management in Mango

Crop	: Mango
Variety	: Alphanso
Yield & Area of District	: 8 t/ha, 11929 ha
Problem	: Lack of knowledge on production and post harvest technology
Solution	: ICM and PHT in mango
Technology components to be included in the FLD	: Mango special, Fruitfly traps, Healer cum Sealer, Neem soap, Mango harvester, Ripening chamber
Source of Technology	: IIHR, Bengaluru
Season & Year	: Rabi & Summer, 2017-18
Parameters to be taken	: Yield and economics
SMS	: SMS (HS)
Cluster	: Mavukere, Tumakuru taluk

Critical inputs to be provided

Area (Acre)

No. of
Farmers

Total
Budget (Rs.)

Mango special- 5 kg, Sealer cum Healer-1 kg,
Fruitfly traps-8 No,s,, Neem soap-3 kg, Mango harvester,-1 No,s ,
Ripening chamber- 1 No,s (for group)

10

10

40,000

Results 2015-16

***Demo plot (6 yrs old) Mango Fruits selling rate-40/kg and in check – 30 /kg**

Check Plot Details

Demonstration Details

Average yield / ha (Tons)	Gross cost/ha (Rs. In lakhs)	Gross Income /ha (Rs. In lakhs)	Net income /ha (Rs. In lakhs)	BC Ratio	Average yield / ha (Tons)	Gross cost/ha (Rs. In lakhs)	Gross Income /ha (Rs. In lakhs)	Net income /ha (Rs. In lakhs)	BC Ratio
6	0.8	1.8	1	2.25	8	0.9	3.2	2.30	3.55

4.ICM in Jasmine Var:Kakada

Crop	:	Jasmine
Variety	:	Local
Yield	:	5000 Kg/ha
Problem	:	Severe incidence of mite resulted in 30-50% yield reduction
Solution	:	ICM
Technology components to be included in the FLD	:	<ol style="list-style-type: none"> 1. Pruning in the month of Mar- April. 2. Spraying of Propergite 57 % EC 1ml/ltr twice or thrice at fortnightly intervals in 500 -750 ltr of water/ha.
Source of Technology	:	IIHR, Bengaluru

Critical inputs to be provided	Area (ha)	No. of Farmers	Rs./ha	Total Budget (Rs.)
Propergite - 2.0 lit	1	5	4,000	4,000

Results 2016-17

Details of technology	% mite incidence	% decrease in incidence over control	Yield Per ha In Qtls	% increase in yield over control	Gross Returns In Rs.	Gross Cost In Rs.	Net Returns In Rs.	B:C ratio
Demo	8.90	84.77	66.45	62.50	332250	89456	242794	3.71
Control	58.44		40.89		204450	97245	107205	2.10



5.ICM in Tomato

Problem	:	Improper cultivation practices in Tomato
Solution	:	Integrated Crop Management
Technology components to be included in the FLD	:	Arka Samarat, AMC, Vegetable Special, PP Chemicals and use of polythene mulch in tomato production (IIHR, Bengaluru)
Season	:	Rabi/Summer 2016
Parameters of assessment	:	Growth parameters, No of Fruits, Fruit weight, Pest and Disease Incidence, Yield and economics

Critical inputs to be provided	Area (ha)	No. of Farmers	Total Budget (Rs.)
Seeds -100 gm, AMC-15 Kg, Vegetable Special-6 Kg, Neem Soap -2 Kg, Chlorothilone -1 kg, Polythene mulch (80 micron)	1	5	25,000





With out Mulching



Laying of polymulch on Bed



FLD Plots at Vaddagere & Madde





Field Day on Polymulch in Tomato at Vaddagere Tumkur



Interaction with farmer by Department of Horticulture and Agric

Results 2016-17

Particulars	Parameters			Economics			
	No of fruits /plant	Fruit weight (g)	Avg Yield (t/ha)	% increased yield	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	43	88.4	74.80	12.90	3,36,600	2,63,150	4.58
Control	32	56.5	66.20		2,97,900	2,13,920	3.54

Benefits:

- ❖ Addl. yield of 08 t /ha = Rs. 38,000/-
- ❖ More crop per unit of water (2.5 acres can be irrigated instead of one by using plastic mulch)
- ❖ Not depended on external labours
- ❖ Harvested more yield and good quality fruits.

6. ICM in China Aster – Arka Kamini

Problem		Lack of improved, market suitable Aster variety
Solution	:	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 components included in the FLD	:	ARKA Kamini : Deep pink colored flowers more attractive than the local pink variety, Flowers are 6 cm in diameter and weight 2g each. Each plant produces about 50 flowers.
Parameters of assessment	:	Size, Weight, No. of Flowers/plant, Yield
Season		Rabi

Critical inputs to be provided	Area (ha)	No. of Farmers	Total Budget (Rs.)
Aster - Arka Kamini Seeds - 750 g/ha Biofertilizers 5 Kg AMC	1	10	9,500





China Aster FLD plots





China Aster FLD plots



Results 2016-17

Particulars	Parameters			Economics			
	No of Flowers	Flower Diameter (cm)	Yield (t/ha)	% Increase	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	42.2	4.50	4.45	26.42	1,33,500	98,250	3.79
Control	32.50	4.20	3.52		1,05,600	67,700	3.11



7. ICM in Marigod – Arka Bangara -2

Problem	:	Lack of improved variety and Improper cultivation practices in Marigold
Solution	:	Arka Bangara 2: Early flowering and more shelf life, attractive colour, medium size and more number of flowers per plant.
Technology components included	:	ARKA Bangara 2 : Flowers are of yellow gold colour. The variety comes to flowering by 40-45 days and continues to flower for next 65 -70 days. Flowers are medium in size. Distinct features of the variety is its Petaloid sterile flowers.
Parameters studied, Season	:	Size, Weight, No. of Flowers/plant, Yield Kharif

Critical inputs to be provided	Area (ha)	No. of Farmers	Total Budget (Rs.)
Rooted cuttings – 6,000 /Acre Biofertilizers 5 Kg AMC	0.4	05	6,500



Particulars	Parameters			Economics			
	No of Flowers	Flower Diameter (cm)	Yield (t/ha)	% Increase	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	58.5	4.7	5.60	20.17	1,79,200	1,40,450	4.60
Control	42.0	5.2	4.66		1,39,800	1,03,020	3.80





Arka Bangara 2 at D Nagenahalli



Arka Bangara 2 at Thanganahalli

8. Arecanut – French Bean Intercropping System

Problem	:	Lack of legume crop intercropping practices in Arecanut garden
Solution	:	Areca nut + French bean (Arka Suvidha) intercropping system
Technology components to be included	:	French beans - 40 kg Soil sample analysis- Before and After -5 samples
Parameters to be studied	:	No of pods /plant, Green Pod yield/plant , Nutrient status of inter crop and Yield (t/ha) of main and intercrop

Critical inputs to be provided	Area (ha)	No. of Farmers	Total Budget (Rs.)
Arka Suvidha seeds -40 kg Soil sample Analysis - 10 Nos	01	05	11,000



Areca nut Mono crop



Arecanut + French bean

Results of FLD 2016-17

Partiulars	Parameters of intercrops				Economics			
	Plant Height (cm)	No of branches	No of pods/plant	Length of Pods (cm)	Avg Yield (t/ha)	Gross return (Rs/ha)	Net incomce (Rs/ha)	B:C ratio
Arecanut monocrop	-	-	-	-	1.07	214000	141050	2.93
Arecanut +					1.12	224000	151050	3.52
French Bean	42.5	12	36.2	13.2	3.6	54000	37750	

9. Integrated Crop Management in Onion

Problem	Technology	Results
<p>Low yield due to diseases and pest problem and use of local seeds</p>	<p>ICM Practices in onion by use of A.Kalyan seeds 4kg, AMC- 1kg, 2 kg veg special, 2 kg Neem soap,</p>	<p>Bulb crop: Farmers practice – 98 qt/ac, FLD plot- 125 qt/ac, 27.55% more yield. BC ratio:1.56</p> <p>Seed crop: Farmers practice – 200 kg/ac, FLD plot- 300qt/ac, 50% more yield. BC ratio:1.81</p>



10.Nutrition garden in Schools

Crop	: Vegetables
Variety	: Arka varieties
Yield	: -
Problem	: Lack of knowledge on cultivation of vegetables crops in small area and high cost of vegetables and fruits.
Solution	: Nutrition garden
Technology components to be included in the FLD	: Demonstration on Establishment of Nutrition Garden in Schools
Source of Technology	: UAS ,Bengaluru
Season & Year	: Kharif & Rabi, 2017
Parameters to be taken	: Yield, Average Vegetable production per day, Cost of savings through nutritional garden.
SMS	: SMS (HS)
Cluster	: Sira and Tumakuru Taluk



Critical inputs to be provided

**No. of
Schools**

**Total Budget
(Rs.)**

Vegetable seed kits (4 No,s), seedlings of Papaya (5 No,s), drumstick(5 No,s) for each schools, Polyethene bags(4 kg), AMC- 2 kg, Veg. special- 2 kg, Neem soap-2 kg, sprayer – 2 No,s,

5

15,000

List of Schools and Results 2016-17

Sl. NO	School Name	Area approximate	Status	% of Vegetable met from Nutrition garden and amount saved
1	Govt Lower Primary School, Aralakatte, Tq: Tumakuru (Student Strength- 70)	2,400 Square feet	Total Vegetables harvested for one season-180 kg (Leafy veg, tomato, chilli, pumkin, French bean, Ridge gourd)	42% vegetable requirement met from garden and saved Rs.3600
2	Govt Higher primary School, Byalya, Tq: Madhugiri (Student Strength- 220)	1,400 Square feet	Leafy vegetables harvested- 60 kg. Tomato, Chilli, other Veg- Fruiting stage.	9.4 % vegetable requirement met from garden and saved Rs.1200
3	Govt Lower Primary School, Sigalahalli, Tq: Sira	4,000 Square feet	Leafy vegetables harvested- 40kg. Tomato, Chilli, other Veg- Seedling and Flowering stage	-
4	TVS School,	1,800	Sowing of all veg done,	-

11. ICM in Coconut

Crop	: Coconut
Variety	: Arsikere tall
Yield & Area of District	: 0.16 lakh nuts/ha, 1,32,587 ha
Problem	: Monocropping, low nutrient status and low yield, button shedding, mites, stem bleeding, Ganoderma wilt, Pests
Solution	: ICM
Technology components to be included in the FLD	: Neem cake-5kg per tree, French bean seeds-10kg/ acre, RDF- Gypsum-1kg/ tree, COC- 10g per lit water, Hexoconazole -3 ml per 100ml water and Pheromone traps
Source of Technology	: UAS , Bengaluru
Season & Year	: Kharif, 2017
Parameters to be taken	: Nutrient status, Coconut yield, Percent recovery of stem bleeding and Inter crop yield
SMS	: SMS (SS)
Cluster	: Tanganahalli, Anupanahalli- Koratagere & Duragadahalli, Kadaranahalli-Tumakuru



Critical inputs to be provided	Area -ha	No. of Farmers	Total Budget (Rs.)
Neem cake-5kg per tree, French bean seeds-10kg/acre, Gypsum-1kg/tree, COC- 10g per lit water, Hexoconazole - 3 ml per 100 ml water and Pheromone traps	2	10	30,000



Results 2016-17

Particulars	% Stem Bleeding incidence	Avg. Yield (No./ha)	% Increase	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonstration	4.5	6,420	8.7	33,500	70,620	37,120	2.1
Check	13	5,906		31,750	64,966	33,216	2.0

Partiulars	Parameters of intercrops in Coconut		Economics				
	No of pods/ plant	Length of Pods (cm)	Avg Yield (t/ha)	Gross cost (Rs/ha)	Gross return (Rs/ha)	Net incomce (Rs/ha)	B:C ratio
French Bean	36.9	13.7	3.2	16,500	48,000	31,500	2.90

Farmers Feedback

- **Frenchbean** Intercropping in Coconut as resulted in additional income.
- Due to prevailing continuous drought in Tumakuru has reduce the yield.

12. Cost Effective Arka Microbial Consortium for high quality and Crop yield of Betelvine

Thrust Area	Nutrient Management
Problem	High Pest and Diseases incidence, Poor drained soils, Low nutrient use efficiency and soil fertility, Less leaf area and low yield
Technology demonstrated	Microbial consortium 10g/ltr drenching 500 ml per plant FYM 25 kg/plant
Place	Yellerampura, Tanganahalli, Balenahalli
No. of Farmers	5
Remarks	More number of leaves per plant, bigger size leaves, Crop condition is good and reduced foot rot disease.



Results 2016-17

Particulars	Leaf Area (cm ²)	% foot rot disease	Avg. Yield (No. of leaves/acre) –in lakhs	% Increase	Gross Cost (Rs./ac)	Gross Returns (Rs./ac)	Net Returns (Rs./ac)	B:C ratio
Demonstration	109	10.8	2.8	21.7	38,500	70,400	34,040	1.8
Check	98	26.3	2.3		37,000	46,050	11,500	1.2

Farmers Feedback

- Application of AMC increased the number of leaves per plant in Betelvine and the leaf area was also increased.
- Crop condition and quality of the leaf is good and reduction in foot rot disease.
- Up scaling : Started Mass production of AMC under NABARD project to produce 3 tons of AMC per month

13. Management of Wild Boar in Farming system



Problem	: Heavy damage due to wild boar Disturbing and uprooting of Groundnut plants
Solution	: IPM
Technology components to be included in the FLD	: 1. Tying of old coloured cloth pieces around the field. 2. Installation modified Nylon net 3. Installation of Borep-Wild bore repellent
Source of Technology	: KAU, Thrissur
Season & Year	: <i>Kharif, 2017</i>
Parameters to be taken	: Percentage of damage, Yield loss
SMS	: SMS (PP)
Cluster	: Duragdahalli- Tumakuru, Tipenahalli- Sira, Kariyammanapalya-Pawgada



Installation of Borep





Additional inputs to be provided

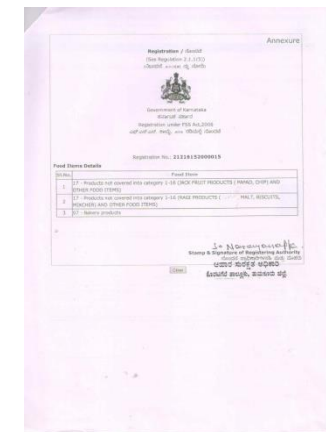
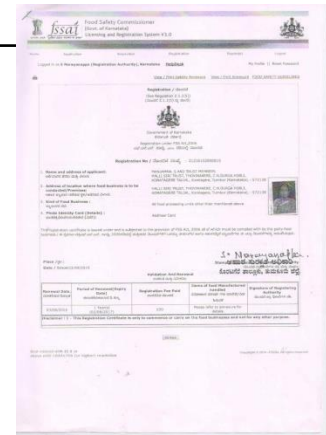
Additional inputs to be provided	Area (ha)	No. of Farmers	Rs./unit	Total Budget (Rs.)
1. Nylon net- 8 Kgs	2	5	5,400	32,000
2. Borep-Wild boar repellent			1,000	

Details of technology	% Damage in Early stage immediately after sowing	% Damage in Pod filling stage	Yield Per ha In qts	% increase in yield	Gross Cost In Rs.	Gross Returns In Rs.	Net Returns In Rs.	B:C ratio
Demo plot	Nil	Nil	3.84	28.85	14,456	19,968	5,512	1.38
Control	69.53	26.90	2.98		12,952	15,496	2,544	1.19



14. Jack fruit processing, Value addition and marketing linkage

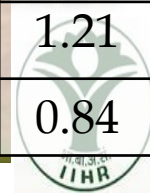
Problem	Technology	Result
Lack of knowledge on Jack fruit processing, Value addition and marketing linkage	Preparation of jack fruit chips, papad, halva, and marketing linkge with labeling	Training programme on Jack fruit processing was conducted on 3-8-2016 registration of FSSAI



Enhancement of Pigeon pea yield through introduction of BRG – 5 (NFSM)

Crop	Pigeon pea
Variety	BRG-5
Yield & Area of District	7-9 qt/ha, 25000 ha
Problem	Use of local low yielding varieties.
Solution	High yielding variety
Technology components to be included in the FLD	Demonstration of BRG-5 Variety, use of foliar micronutrient, use of pheromone traps, use of neem soap, Use of sticky traps

Particulars	Parameters		Economics				
	No of Pods/plant	Avg Yield (Qt/ha)	% increased yield	Gross cost (Rs/ha)	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	23	2.04	31.61	8,400	10,200	1,800	1.21
Control	14	1.55		9,200	7,750	-1,450	0.84



Enhancement of Groundnut yield under NMOOP

Crop	: Groundnut
Variety	: KCG-6/K-6
Yield & Area of District	: 7-8 qt/ha, 1.20 lakh ha
Problem	: Use of local low yielding varieties.
Solution	: High yielding variety
Technology components to be included in the FLD	: Demonstration of KCG-6 and K-6 Varieties
Source of Technology	: UAS, Bengaluru



Results of 2016-17

Cluster name	Check variety	Demo variety	Yield (q/ha)		Gross cost (Rs./ha)		Gross income (Rs./ha)		Net returns (Rs./ha)		Check B:C Ratio	Demo B:C Ratio
			Check	Demo	Check	Demo	Check	Demo	Check	Demo		
Tippanahalli (Tq:Sira)	TMV-2	K-6	2.83	3.04	15000	15000	14,50	15,20	-850	200	0.94	1.01
K.Palya (Tq:Pvg)	TMV-2	K-6	1.89	2.15	15000	15000	9473	10731	-5527	-4269	0.63	0.72

Cluster name	Check variety	Demo variety	Yield (q/ha)		Gross cost (Rs./ha)		Gross income (Rs./ha)		Net returns (Rs./ha)		Check B:C Ratio	Demo B:C Ratio
			Check	Demo	Check	Demo	Check	Demo	Check	Demo		
Kadaranahalli (Tq:Tmk)	TMV-2	KCG-6	3.28	3.46	15000	15000	16400	17300	1400	2300	1.09	1.15
Kanvenhalli (Tq:Pvg)	TMV-2	KCG-6	1.86	1.96	15000	15000	9321	9821	-5679	-5179	0.62	0.65



Farmers Field School-Integrated Crop Management in Potato

Problem Definition: Potato is the most important remunerative crop of the Tumakuru. The reduction in the income is mainly due to lack of knowledge on proper Crop Management Practices.

Main Objectives: ICM reduce the cost of cultivation, Higher yield and Higher net returns.

No. of farmers: 30

No. of sessions: 7

Village: Durgadahalli

Scientific Rationale :

Farmers are switching over to the other vegetables mainly due to pest and diseases and other crop management related issues. Through FFS the identified problems will be tackled to improve the net returns.



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

Learning process

- ◆ Potato growers/farmers will learn about the ICM approaches by actively involving from seed to post-harvest.
- ◆ The Farmers group will observe ICM technologies (UHS) 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.

Results 2016-17

Particulars	% disease	Avg. Yield (ton/ha)	% Increase	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonstration	12.2	17.5	16.7	68,750	1,92,500	1,23,750	2.8
Check	38.1	15		62,250	1,65,000	1,02,750	1.65

Farmers Feedback

- Application of AMC reduce the infestation of bacterial blight.
- Use of Vegetable Special 3 gm/litre and soil test based recommendation improves crop condition and yield.

EDP on Ragi Processing, Value Addition and Marketing

Sl No.	Products	Rate (Rs./kg)	Total quantity(kg)	Production cost(Rs.)	Total Income (Rs.)	Net income (Rs.)	BC Ratio
1	Ragi Ladu	280	100	18000	28000	10000	1.55
2	Ragi khara	200	50	6000	10000	3500	1.66
3	Ragi Chakkuli	180	40	4000	7200	3200	1.60

Ragi Processing, value addition and marketing



Integrated Farming System

Honey bee hives – 15 Nos
05 Nos Installed in each 3 farmers' fields
On cost sharing basis



Training and Extension Activities

Training programmes conducted during 2016-17

Category	Major thematic areas covered	No. of courses	No. of participants
1. Farmers & farm women	Agril. Engineering	1	40
	Agro-forestry	1	35
	Capacity Building and Group Dynamics	1	23
	Crop Production	3	106
	Home Science/Women empowerment	10	617
	Horticulture	3	60
	Plant Protection	5	161
	Soil Health and Fertility Management	6	190
	Value Addition in Agriculture and Horticulture crops	2	58

Training programmes conducted during 2016-17

Category	Major thematic areas covered	No. of courses	No. of participants
2. Rural youth	Mushroom Production	8	104
3. Extension personnel	Productivity enhancement in field crops	1	48
	Formation and Management of SHGs	1	15
	Rejuvenation of old orchards	1	85
	Integrated Nutrient management	1	22
	Production and use of organic inputs	1	86
4.Sponsored programmes	Crop production and management	4	160
	Home Science	2	58
Total		51	1868

Extension Activities 2016-17

Extension Activity	No. of activities	Participants		
		Farmers	Extension Functionaries	Total
Advisory Services				
Special Day Celebration				
Diagnostic Visits				
Exhibition				
Exposure Visits				
Farmers Visit to KVK				
Field Day				
Film Show				
Group meeting				
Kisan Mela				
Lecture delivered				
Soil health Camp				
Total				



ON CAMPUS TRAINING PROGRAMMES



Dryland Agriculture



IIHR Technologies



Areca Plate Making



Dryland Horticulture

OFF CAMPUS TRAINING PROGRAMMES



Use of Bio-fertilizers in Horticulture



Seed Kit for School at Tumakuru





Awareness Programme on Pradhan Mantri Bima Fasal Yojana at KVK, Hirehalli : 06.04.16



Technology Week 2016: Dec 23-28



Invited speakers : Dr. Ashwath, Principal Scientist, Dr. M Prabhakar Rtd. Principal Scientist, IIHR, Bengaluru, Dr. T.N. Venkatareddy Rtd. Professor UAS, Bengaluru, Dr. Giridhar & Dr. Gowda, Principal Scientists, ICAR-NAINP, Bengaluru and Dr. Selvakumar, Senior Scientist, IIHR, Bengaluru (Soil Science)



Organic Vegetable Mela 2016: 19.08.2016



Millet Mela in Collaboration with Tumakuru University: 22-23 Oct, 2016



World Soil Day & Rabi Campaign 2016: 05.12.16



Farmers Exposure Visits, Field days



Other Extension Activities 2016-17

Sl. No.	Nature of literature/publications	No. of Copies/Programmes
1.	Research Papers published	6
2.	Research abstracts/Proceedings published	5
3.	Technical Bulletins/Manuals	3
4.	Popular articles	3
5.	Book Chapters	1
6.	News letters	3
7.	Folders	3
8.	Radio talks	3
9.	TV coverage	7
10.	KVK Portal events covered	109
11.	KMAS messages to farmers	59

Research Papers

1. Nagappa Desai, B.Mamata, **J.M.Prashanth** 2016:Impact of Frontline demonstrations in adoption of production Technology and economics of Tomato in Farmers' Field of Tumakuru District. *The Asian Journal of Horticulture, Volume-2, Issue-2, December 2016 Pp 349-354.*
2. **N. KUMARA, N. LOGANANDHAN, SOMASHEKHAR AND B. HANUMANTHE GOWDA** 2016. Effect of Black Polythene Mulches on Growth and Yield of Green Chilli (*Capsicum annum*) in Tumkur District Karnataka. *Nature Environment and pollution Technology An International Quarterly Scientific Journal -Vol.15 (1): PP.201-204.*
3. Srinivas Reddy D.V., Sreenath Dixit, **N.Loganandhan**, Manjunath Gowda B. Mohan S., Sheeba . Mallikarjuna B.O. and Anitha, 2017., Short and Medium Duration Varieties of Cereals and Millets to Mitigate Monsoon Vagaries in Rainfed Agriculture, **Indian Journal of Ecology (2017) 44 (Special Issue- 4)**
4. Srinivas Reddy D.V., Sreenath Dixit, **N.Loganandhan**, Manjunath Gowda B. Mohan S., Sheeba . Mallikarjuna B.O. and Anitha, Influence of farm ponds towards imparting climate resilience to rainfed farming: Success from NICRA villages, XIII Agricultural Science Congress-2017: Climate Smart Agriculture - 21-24, Feb 2017.
5. **Ramesh P.R., Loganadhan N.** and Praveen Kumar, 2017, Rainwater harvesting through Checkdam and efficient use to enhance climate resilience at D.Nagenahalli, Tumakuru District, Karnataka, XIII Agricultural Science Congress-2017: Climate Smart Agriculture - 21-24, Feb 2017.

6. Srinivas Reddy D.V., Sreenath Dixit, **Ramesh P.R.**, Chougala D.C., Manjunath Gowda S. Sheeba S. Mallikarjuna B.O. and Anitha, Climate smart Agriculture - Influence of in-situ moisture conservation practices on the performance of field crops, XIII Agricultural Science Congress-2017: Climate Smart Agriculture - 21-24, Feb 2017.

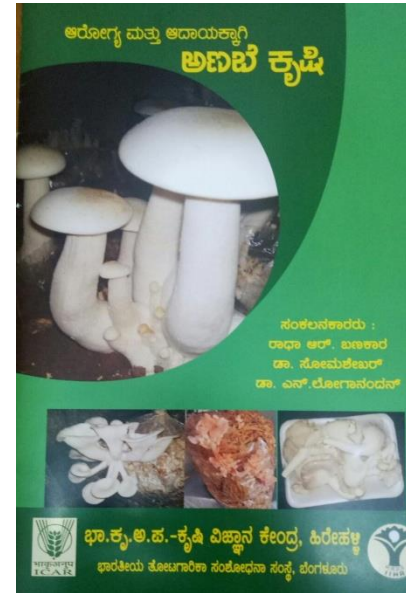


Research Abstracts/ Proceedings

1. Hanumanthegowda.B,Loganandhan. N ,Ramesh.P.R, Shashidhar,K.N, and Himabindu,2016, Role of Arka Microbial Consortium (AMC) on management of foot rot of Betelvine caused by *Phytophthoraparasitica* in cluster villages of Tumakuru District .In proceedings of IPS 6th International Conference on "Plant, Pathogens and People",held on Feb. 23-27, 2016 at NASC Complex, New Delhi.Pp:127-129
2. Hanumanthegowda.B,Ramesh.P.R, Shashidhar,K.N,, Jagadish.K.N , and Loganandhan. 2016, weather based approach for effective management of bacterial blight of pomegranate caused by *Xanthomonasaxonopodis pv. punicae* . In proceedings of First KVK Symposium Zone VIII held at UAS,Dharwad on Jan,21-22nd,2016. Pp:46-49
3. Hanumanthe gowda.B ,Loganandhan. N ,Ramesh.P.R , Prashanth, J.M,and Jagadish.K.N, 2017, Studies on effect of Arka Microbial Consortium (AMC) on management of wilt in Pomegranate caused by *Ceratocystisfimbriata* in cluster villages of Tumakuru District. Presented at National Symposium on 'Diagnosis and management of plant diseases: Integrated approaches and recent trends' to be held on Jan, 9-11, 2017 at Umiam, Meghalaya.Pp:156
4. Hanumanthegowda.B ,Loganandhan. N ,Ramesh.P.R , Prashanth, J.M,and Jagadish.K.N, 2017, Assessment of damage level of Groundnut crop caused by wild boar (*Sus scrofa*) in Tumkur district. Presented at National Meet of Entomologists on 7 h & 8th October held at ICAR-IIHR. Pp:73
5. Hanumanthegowda.B ,Loganandhan. N ,Ramesh.P.R , Prashanth, J.M,and Jagadish.K.N, 2017, ROLE OF 'Sealer Cum Healer' on management Of Mango stem borer caused by *Batocerarufomaculata* In Cluster Villages Of Tumakuru District.Presented at National Meet of Entomologists on 7 h & 8th October held at ICAR-IIHR.Pp:110

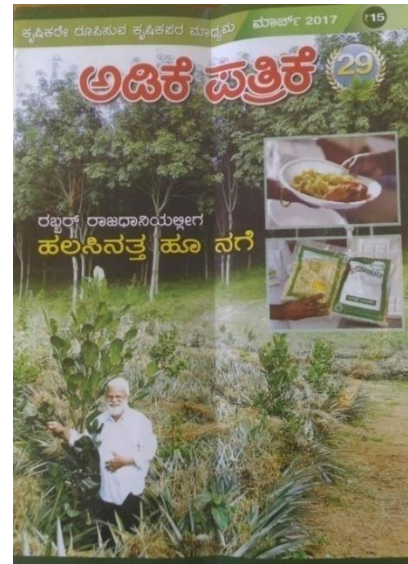
Technical Bulletins/manuals

1. **Prasanth JM, BH Gowda , KN Jagadish, PR Ramesh and N Loganandhan**, Manual on Integrated Farming System-Dryland Horticulture under Sujala Phase-III 2016-17, Department of Horticulture, Govt. of Karnataka.
2. **Radha R.Banakar, Somashekhar, Loganandhan and G karunakaran** 2016, 'Ahaara mattu poshana Subhadratege poustik Kaithota Published under Bhoosamrudhi Project funded by Zilla Panchayath Tumakuru.
3. **Radha R.Banakar, Somashekhar and Loganandhan** 2016, Arogya mattu aadhayakkaagi Anabe Krishi, KVK, Hirehalli.

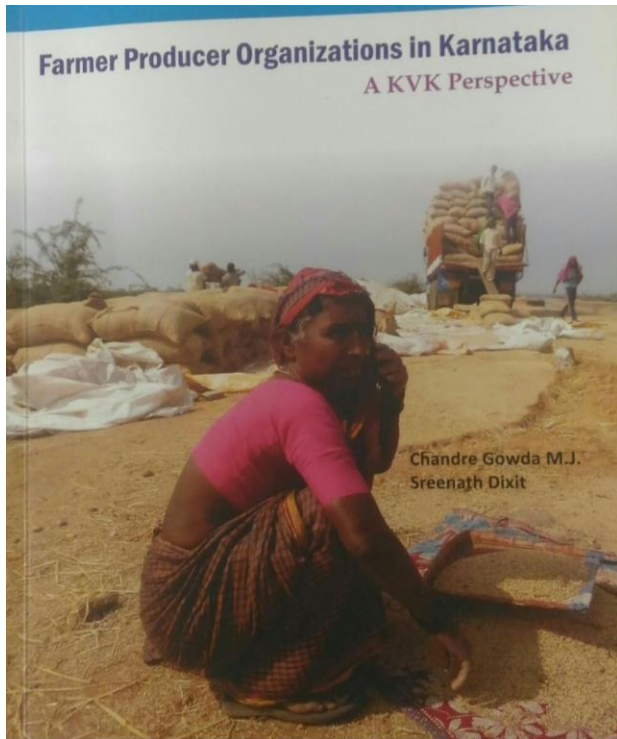


Popular Articles

1. **K.N.Jagadish, Padaru,**
Krushikarindale moulyavardhane-
bisakida gidagaligiga badukige
neralu, *Adike Patrike* ,March 2017:
Pp No. 12-15.
2. **Radha R.Banakar, Somashekhar,**
Loganandhan N 2016. 'Halasina
Hannu sanskarane mattu moulya
vardhane' In:Siri samruddi
monthly magazine.BAIF, Tiptur.
June, 2016, PP- 26-29.
3. **Radha R.Banakar, Somashekhar,**
Loganandhan N 2016.
'Arogyakkagi Anabe-Besaya mattu
Moulyavardhane' In:Siri samruddi
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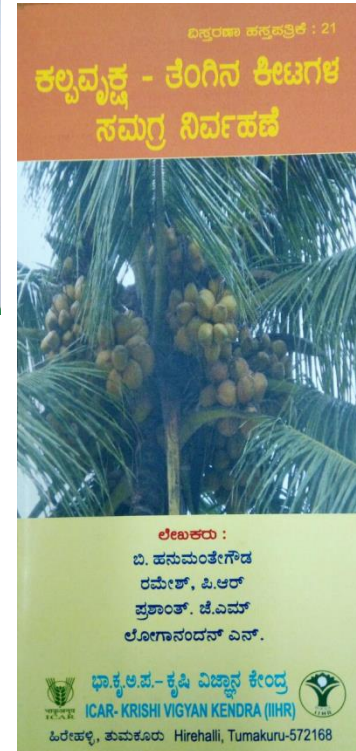
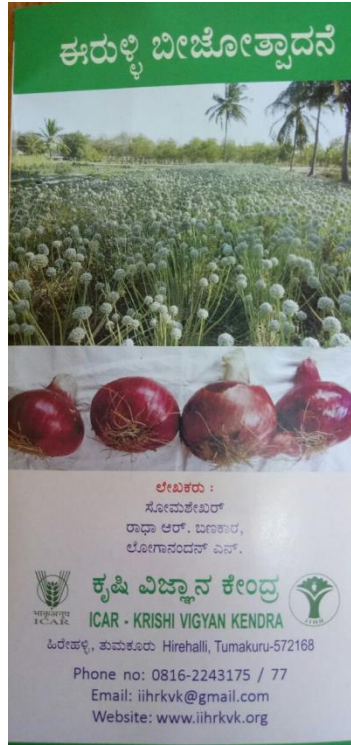
Book Chapters



1. N.Loganadhan, K.N.Jagadish, KVK Tumakuru (II) Status of Farmer Producer Organizations in Tumakuru District (Part I) at Book Chapter: Chandre Gowda, M.J. and Sreenath Dixit (Eds) 2016, ***Farmer Producer Organizations in Karnataka - A KVK Perspective***, ICAR Agricultural Technology Application Research Institute Bengaluru, Karnataka, India. **Pp 54 -62**

Folders

1. **Somashekhar, Radha R.Banakar and Loganandhan** 2016, 'Eerullayalli Bheejothpadhane', KVK, hirehalli
2. **Hanumanthegowda.B, Jagadish.K.N, Shashidhar,K.N, and Loganandhan.** 2016, IDM in Coconut, KVK, Hirehalli
3. **Hanumanthegowda.B, Ramesh.P.R, Prasanth J.M., and Loganandhan.** 2016, IPM in Coconut, KVK, Hirehalli



Radio talks

- ▣ **Cultivation of Lime by JM Prasanth:** AIR, Bengaluru telecast on **28th February 2016.**
- ▣ **IPDM in Coconut by B.Hanumanthe Gowda:** AIR, Bengaluru, telecast on **23rd August 2016.**
- ▣ **Vermicompost unit and its importance by K.N.Jagadish:** AIR, Bengaluru, telecast on **24th Nov, 2016.**



Electronic Media Coverage



7 Programmes covered in 2016-17

News Letters



ICAR-Krishi Vigyan Kendra

Hirehalli, Tumakuru-572 168.



ICAR-Indian Institute of Horticultural Research

News Letter

Volume - 5 Issue - 3
April 2016 - June 2016

Special Programmes

➤ **Awareness Programme on Pradhan Mantri Bimla Fasal Yojana at KVK, Hirehalli**

Sri Muddaharame Gowda, Member of Parliament, Tumakuru, inaugurated one-day awareness programme on "Pradhan Mantri Bimla Fasal Yojana" at KVK, Hirehalli, Tumakuru on 09th April 2016. The event was organised in collaboration with ICAR-Indian Institute of Horticultural Research, Bengaluru and with support from ICAR-Agricultural Technology Application Research Institute, Bengaluru.

Dr. N. Loganathan, Head, KVK, Hirehalli welcomed the guests and all the participants.

In his inaugural address, Honorable MP Highlighted the special features of Bimla Fasal Yojana, he added that farmers will have to pay a very low premium for insuring their crops which will be 2% for Kharif crops, 1.5% for Rabi crops and 5% for commercial and horticultural crops. Remaining amount of the premium will be borne by the Government.

The MP also visited Exhibitions stalls of ICAR Institutes and KVK, Tiptur UAS Bengaluru and other agencies and interacted with the scientists and development officials.

Sri Veerabardhan, DDM, NABARD, Tumakuru in his keynote address shared information about Pradhan Mantri Bimla Fasal Yojana.

Dr. Venkattakumar R, Principal Scientist and Head, Division of Extension IHR Bengaluru in his presidential address highlighted the significant achievements of the institute and its commitment for upliftment of vegetable growers through various extension activities like Soil Health Card Distribution, Mera Gaon Mera Gaurav Scheme, Skill Entrepreneurship Development Programme, Farmer Producer Organisation etc.

During the day Dr. Antony, IDA, Dr. Darshan, Dept. of Veterinary, Sri Jayaramalah Manager Lead Bank, Dr. Shivanas, T.N., Principal Scientist, Dr. Shivaram Head, Meteorological, IAS Bengaluru, Sri K. Ramesh, AbhayaKali Innovation Forum, Tumakuru, Dr. Sulanya, PC KVK Tiptur participated in the programme and shared their experience for the development of farmers.

More than 550 farmers including 185 farm women took part in this programme.

Farmer friendly literatures on PMFBY and other technological packages were distributed among participating farmers.

Divisional/District level Govt. officers, Private and NSICs representatives were present in this programme. All the KVK staff members from Hirehalli and Kotehalli, Tumakuru actively participated towards the successful completion of programme.







ICAR Krishi Vigyan Kendra, Hirehalli, Tumakuru



ICAR-Krishi Vigyan Kendra

Hirehalli, Tumakuru-572 168.



ICAR-Indian Institute of Horticultural Research

News Letter

Volume - 5 Issue - 4
July 2016 - Sept. 2016

Special Programmes

• **Visit of Earthcare Award Committee to KVK, Hirehalli and NICRA Village, Koratageri, Tumakuru**

TDC NICRA Team from CRIDA in presence of Dr. Sreenath Dhot, Director, ADRI and Dr. Sreenivas Reddy D, Principal Scientist, ATARI, Bengaluru visited KVK and D. Nageshalli NICRA Village, Koratageri, Tumakuru on 17th July 2016.



• **Inauguration of Diploma in Agricultural Extension Services for Input Dealers (DAESI) Programme at ICAR KVK (IHR) Hirehalli Tumakuru on 29th September 2016**

As a part of Golden Jubilee Celebration, ICAR-KVK (IHR) has organized Diploma in Agricultural Extension Services for Input Dealers (DAESI) program on 29th September 2016 at KVK, Hirehalli. This programme was inaugurated by Dr Anantoji, Joint Director Agriculture, Tumakuru in presence of Dr R Venkattakumar, Principal Scientist and Head, Division of Social Sciences and Training, ICAR-IHR, Bengaluru. Dr R Venkattakumar in his keynote address briefed about the importance of DAESI to reach farmers through input dealers. Dr N Loganathan Senior Scientist and Head, KVK Hirehalli Tumakuru addressed the participants on this occasion and briefed about the role of KVK and IHR to address farmers problems with the available technologies. The DAESI programme was attended by Input Dealers of Tumakuru, Madhugiri, Siragubbi and Koratageri Taluk of Tumakuru District.



• **Research Advisory Committee Meeting**

22nd RAC meeting was held at Krishi Vigyan Kendra, Hirehalli on 16th August 2016. Dr. N. Loganathan, Sr. Scientist & Head showcased the activities of KVK. RAC Chairman and the members appreciated the work.



It was also attended by Subject Matter Specialists, Sri Umesh Chandra Banerjee, Facilitator, DAESI and other staff of KVK Hirehalli. Welcome by Sri Hanumanthegowda and Vote of thanks by Sri Jagadish KN.





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News Letter

Volume - 5 Issue - 5
Oct. - Dec. 2016

Special Programmes

• **Millet Mela**

On 22nd and 23rd October 2016, a Millet Mela was organized in collaboration with University of Tumakuru and NABARD, Tumakuru. About 100 people took part in this two days event. VIPs like Sri Muddanahannagouda J, Honourable Member of Parliament of Tumakuru Constituency and Prof. A. H. Rajasab, Vice Chancellor of Tumakuru University, Dr. V. A. Tonagi, Director, Indian Institute of Millet Research, Hyderabad and




• **Swatchtha Pakhwada**

Swatchtha Pakhwada event was organized at KVK, Hirehalli on 17th October 2016. All the KVK and CHES staff members were participated, taken the oath of Swatchtha Pakhwada and initiated for cleaning of entire campus. On 18th October 2016, a method demonstration on "Bio-degradation of Arcuate Husk" was organized at Kollihalli village. On 19th October 2016 lecture was delivered by Sri G.V. Raghu, Project Director, ORDER NGO on Minor Millets on account of World Food Day 2016. On 20th October 2016 a meeting of Farmers Producer Organisation (FPO) was organized at Lead Bank Office of Tumakuru. On 21st October 2016, an awareness programme on Swatchh Bharat was organized at Doshlagere village of Madhugiri Taluk, and at Kollihalli Village near KVK. During the week end - 22nd and 23rd 2016, a Millet Mela was organized in collaboration with University of Tumakuru and NABARD, Tumakuru. On 24th October 2016, an awareness programme on "Swatchh Bharat" was organized at Pananahalli, Sir. On 25th October 2016, a Video Conferencing programme by Honorable Agriculture Minister was organized at the office of Zilla Panchayat. On 26th October 2016, Programme Coordinator of KVK took part in the "Brain storming Meeting on indicators of Climate Resilient Agriculture" organized by ICAR-CRIDA, Hyderabad. On 27th 2016, a training programme on "Sandali wood cultivation" was organized




operational methodology of R-Governance using online audio-visual system. Dr. D. Sreenivasa Murthy described in detail the advantages of the system in making the official procedure prompt and transparent. He further assured of full support and guidance of AMMU in case of any difficulties in the implementation of R-Governance. All staff of the Hirehalli campus attended the training program and got acquainted with the operational aspects. Sri Jayasankar N, AKMU Cell, IHR also participated during the day.

• **Training on R-Governance at ICAR KVK Hirehalli**

A training programme on R-Governance was conducted on 15th October, 2016 at KVK/CHES (ICAR-IHR), Hirehalli with an aim to use communication technology effectively for efficient and transparent disposal of office business. R-Governance is the part of E-Governance which is being implemented in different ICAR institutes. Dr. D. Sreenivasa Murthy, Chairman, AMMU, IHR, Bengaluru imparted the training and described the basis and



IIHR-KVK Website

The screenshot shows the website for ICAR Krishi Vigyan Kendra (KVK) Hirehalli, Tumakuru District, Karnataka. The header includes the organization's name, address, and contact number (0816-2243175). A search bar is located on the right. The navigation menu includes Home, About us, Activities of KVK, Infrastructure, Package of Practices, District At A Glance, and Contact us. The main content area features a large photograph of an inauguration ceremony for the Seed Processing Unit. A group of men are gathered around a plaque, with one man cutting a yellow ribbon. The plaque text reads: "ICAR - KRISHI VIGYAN KENDRA (KVK) Hirehalli - 41, Banashankar Avenue, Bangalore - 560075, Tumakuru District, Karnataka. SEED PROCESSING UNIT (Constructed under Rashtriya Krishi Vikas Yojana) Inaugurated by Dr. A.K. Singh, Deputy Director, (Horticulture) ICAR, Bangalore. In the presence of Dr. T. Janakiram, ADG (Horticulture-I) ICAR, Bangalore. On Saturday 7th January, 2017. Dr. M. R. Gopalakrishnan, Director, ICAR-IHR, Bangalore. Dr. Suresh Babu, Director, ICAR-KVK, Bangalore. Dr. S. Lakshminathan, Director, ICAR-KVK, Bangalore." Below the photo is a caption: "Seed Processing Unit". Below the main content area is a text block: "ICAR-Krishi Vigyan Kendra (KVK) is a Knowledge and Resource Center...7th SAC meeting will be held a".



KVK-Network Portal

Krishi Vigyan Kendra Knowledge Network
कृषि विज्ञान केंद्र ज्ञान तंत्र

Home Online Monitoring MPR Register Feedback Contact Us Telephone Directory User Manual English

Home > Search KVK Past Events > Past Event Details

ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District

Event Name : Regional Horticultural Fair
Event Venue : ICAR-Indian Institute of Horticultural Research, Hesarghatta, Bengaluru
KVK address : ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
Contact person details : Dr. M. R. Dinesh
 Director
 director@ihr.res.in
 9448064198 08223611298
Event Date : 1/15/2017 To 1/19/2017
Description : The Regional Horticultural Fair was organized as part of the Golden Jubilee celebrations of ICAR-IIHR, during 15-19 January 2017 at IIHR, Bengaluru. The RHF was a five-day event, wherein for first three days there was an exhibition of technologies. On 15.1.2017, Honorable Director General, ICAR inaugurated the Golden Jubilee Orchidarium and visited the demonstration plots. In his speech, he emphasized the need for arranging link between farmers producers organizations (FPOs) and the market. Sri. KR Ramesh Kumar, Honble Minister, Ministry of Health and Family Welfare, Government of Karnataka visited the Regional Horticultural Fair 2017 on 15.1.2017. Honble Agriculture Minister, Government of Karnataka, Sri. Krishna Byre Gowda and Honble MLA, Yelahanka constituency, Sri. S. R. Viswanath, visited the Regional Horticultural Fair 2017 on 17.1.2017. ICAR-KVK (IIHR), Tumakuru received first prize for stall display. For Video link: <https://www.youtube.com/watch?v=ZgGn9-Qh6ME&t=195s>

Image: Regional Horticultural Fair

Krishi Vigyan Kendra Knowledge Network
कृषि विज्ञान केंद्र ज्ञान तंत्र

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Home > Search KVK Past Events

KVK Past Events

Search by

State: KARNATAKA
 District: Tumkur

Search

S.No	Event Name	Event Date (mm/dd/yyyy)	KVK Address
1	Training on "OPERATION AND MAINTENANCE OF AGRICULTURAL & HORTICULTURAL MACHINERY"	3/10/2017 To 3/10/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
2	Women's Day	3/8/2017 To 3/8/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
3	KVK Visit	3/7/2017 To 3/7/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
4	Second KVK Symposium	3/7/2017 To 3/8/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
5	KVK, Hirehalli Visit	3/3/2017 To 3/3/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
6	Field Visit	3/3/2017 To 3/3/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
7	Group discussion on Developing Index for KVK Evaluation	2/25/2017 To 2/25/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District
8	Agricultural Science Congress	2/21/2017 To 2/24/2017	ICAR - Krishi Vigyan Kendra, NH4, Hirehalli, Tumakuru District

109 events covered so far



Kisan Mobile Advisory Services and Advice slip

SMS PORTAL FOR FARMERS USER CONTROL PANEL



Welcome Dr. LOGANANDAN

Home Dashboard Sign Out

Welcome to the SMS Portal for the Farmers and other stake-holders in the field of Agriculture. With a possible expandability to more than ten thousand officers, scientists & experts officers and potential outreach to 127.3 million farm families in their respective languages, this Portal is possibly among the biggest such ICT initiatives anywhere in the world.

Credentials



Name	Dr. LOGANANDAN
Email	ihrkvk@gmail.com
Designation	Programme Coordinator
Specialisation	General
Sector	AGRICULTURE
Verification Status	User Activated

Present Role

Designation	Programme Coordinator
Specialisation	General
Level	State Level
Organisation Type	KVK
Sector	AGRICULTURE
Office	Kisichi Vigyan Kendra, Tumkur,
Location	TUMKUR, KARNATAKA
Approved By	Dr. V. VENKATASUBRAMANIAN
SMSs Sent	166
Farmers Benefited	179719

User Options

- Approval Requests
- Block Unblock Users
- Edit Profile
- Change Password
- Send SMS
- Add/Edit signature
- Profile Photo
- Users' List
- Deregister
- Update Preferences
- SMS Delivery Report
- Queries Received
- Monitoring / SMS Rating
- Upload Database [Go](#)
- Department wise Report
- App Translation

Send SMS

ICAR-KRISHI VIGYAN KENDRA
(Indian Institute of Horticultural Research, Bengaluru)

NH No.4, HIREHALLI, Tumkuru District-572168
Ph : 0816-2243175 / 77, E-mail : ihrkvk@gmail.com

ADVICE SLIP 002

- Name of the farmer : Somaselvar
- Address of the farmer : Jogesaballi
Bangalore South
- Phone / Mobile number : 9945199600
- E-mail id :
- Crop grown : Guava

Problem identified Sooty mould	Solution provided Spraying with 1% stonach + 1% fambendazim
Signature of the farmer C. Soma Selvar	Signature of the Scientist A. Sreed

<p>Hindi</p> <p>English</p> <p>Regional</p> <p>Message</p> <p>Total No of Farmer :- 1713</p> <p>Advisory Date :- 3/18/2017 12:05:03 PM</p>	<p>3</p> <p>Advisory Type :- 1 Advisory Mode :- Sector Message</p> <p>Hindi</p> <p>English</p> <p>Regional</p> <p>Message</p> <p>Total No of Farmer :- 1730</p> <p>Advisory Date :- 3/17/2017 11:36:18 AM</p>
<p>Hindi</p> <p>English</p> <p>Regional</p> <p>Message</p> <p>Total No of Farmer :- 1729</p> <p>Advisory Date :- 3/18/2017 3:15:07 PM</p>	

59 messages sent so far



Kisan Mobile Advisory Services (2016-17)

Month	No. of SMS sent	No. of farmers to which SMS was sent
April 2015		
May		
June		
July		
August		
September		
October		
November		
December		
January 2016		
February		
March 2016		
Total		

Human Resource Development

Name of the Staff	Designation	Title of the HRD programme	Institute where attended	Dates
Sri K.N.Jagadish	SMS-Agril. Extn	SREP for Filed Functionaries	SAMETI, UASB, Hebbal, Bengaluru	8 th – 11 th August 2016
		“Financial Inclusion, Agricultural Credit and Crop Insurance”	MANAGE, Rajendranagar, Hyderabad	20 th -22 nd February, 2017
Sri P.R.Ramesh	SMS-Soil Science	Dairy Farm and Milk Processing Plant Management	NDRI, Adugodi, Bengaluru	19 th -24 th , September , 2016
Dr.N.Loganandhan	Sr.Sci & Head	Cross learning at KVK of same zone	KVKs Salem, Tamil Nadu and Pathanamthitta, Kerala, CIAE, Coimbatore, TN	17-18, Nov, 2016
Dr.B.Hanumanthe Gowda भोक्तृअनुप ICAR	SMS-Plant Protection	IPS Meet - 2016	ICAR-NEHR, Barapani, Megalaya	10-12, Jan, 2017



Awards / Recognition



ICAR-KVK (IIHR) Hirehalli received first prize for display of stall under KVK category at RHF-2017, ICAR-IIHR (15-19, Jan, 2017)

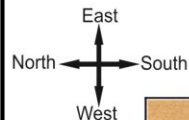


Shri. B. Hanumanthe Gowda received Republic day Award for outstanding contribution in the field of Agriculture by District Administration, Tumakuru

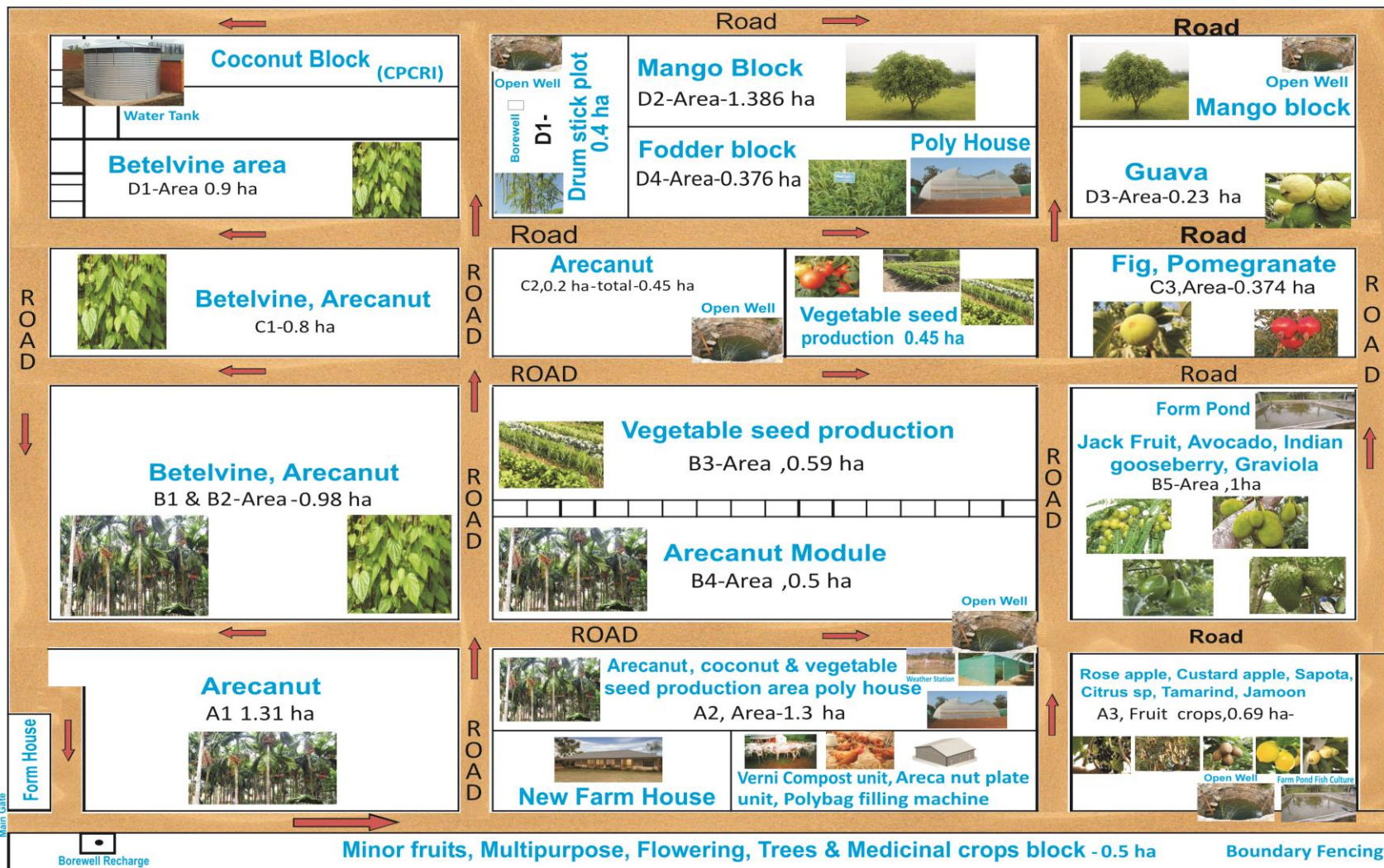
A photograph of a coconut plantation. In the foreground, several rows of coconut saplings are planted in a field of dark brown soil. The saplings are arranged in neat, parallel lines. In the middle ground, three people are working. Two individuals, one wearing a green shirt and the other a white shirt, are bent over, tending to the plants. A third person, wearing a blue shirt and a red cap, stands to the right, observing the work. The background is filled with tall palm trees and a clear sky, suggesting a tropical environment. A semi-transparent dark oval with a purple border is overlaid on the center of the image, containing the text 'KVK Farm Activities' in yellow.

KVK Farm Activities

KVK Farm Map



ICAR-KVK, Hirehalli Route Mapping of Farm



Total Area: 16.08 ha

Cultivable Area: 14.0 ha

- ▣ Arecanut: 2 ha
- ▣ Coconut:1 ha
- ▣ Mango:2 ha
- ▣ Custard Apple:0.1 ha
- ▣ Sapota:0.2 ha,
- ▣ Citrus:0.3ha
- ▣ Tamarind:0.2 ha
- ▣ Jamoon:0.09 ha
- ▣ Amla block – 1.5 ha
- ▣ Pomogranate:0.2ha
- ▣ Guava:0.3 ha
- ▣ Seed Production : 2.0 ha
- ▣ Fodder block-0.3 ha
- ▣ Betel vine plot -1.75
- ▣ Poly house and nursery- 0.2 ha
- ▣ Minor fruits – 0.2 ha

Production and sale of planting materials : 2016-17

Crops	Variety/ Hybrid	Achievement (Nos)	Rate of sale (Rs.)	Total Value (Rs.)
Areca nut	Hirehalli tall	34,052	30	10,21,560
	Sprouts	3,000	5	15,000
Coconut	Arsikere tall	2,250	80	1,80,000
Mango	Alphanso	1,950	40	78,000
Guava	Pink flesh, AK	550	40	22,000
Amla	NA-4,5,7	260	40	10,400
Lime	Seedless	135	40	5,600
Pomello	Devanahalli	120	20	2,400
Lime	Kazi Lime	250	20	5,000
Sapota	Cricket Ball	250	40	10,000
Tamarind	PKM-1	1,770	40	70,800
Others seedlings	Rose apple, Fig, Ramphal, Custard apple	550	10	11,000
	Total	45,137		14,31,760

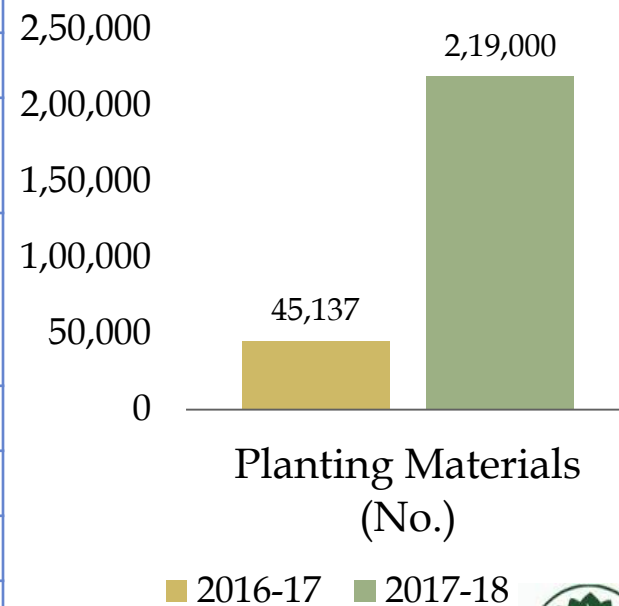
Planting materials and Root stocks- target plan for 2017-18

Sl. No.	Crop	Variety	Type - Seedling/ Grafts	Quantity
1.	Arecanut	Hirehalli tall	Seedling	90,000
2.	Mango	-	Rootstock	50,000
3.	Guava	-	Rootstock	50,000
5.	Coconut	Tiptur tall	Seedling	4,500
6.	Mango	Alphanso, Mallika	Graft	10,000
7.	Guava	A.Mridula, A.Kiran, A.Safed	Graft	10,000
8	Tamarind	PKM-1	Graft	1,000
9.	Amla	NA5 , NA7	Graft	1,500
11	Lime	Kazgi	Seedlings	2,000
			Total	2,19,000

The expected Gross income : RS. 48.66 lakhs

Expenditure cost : 7.69 lakhs

Total Net Income : 40.97 lakhs

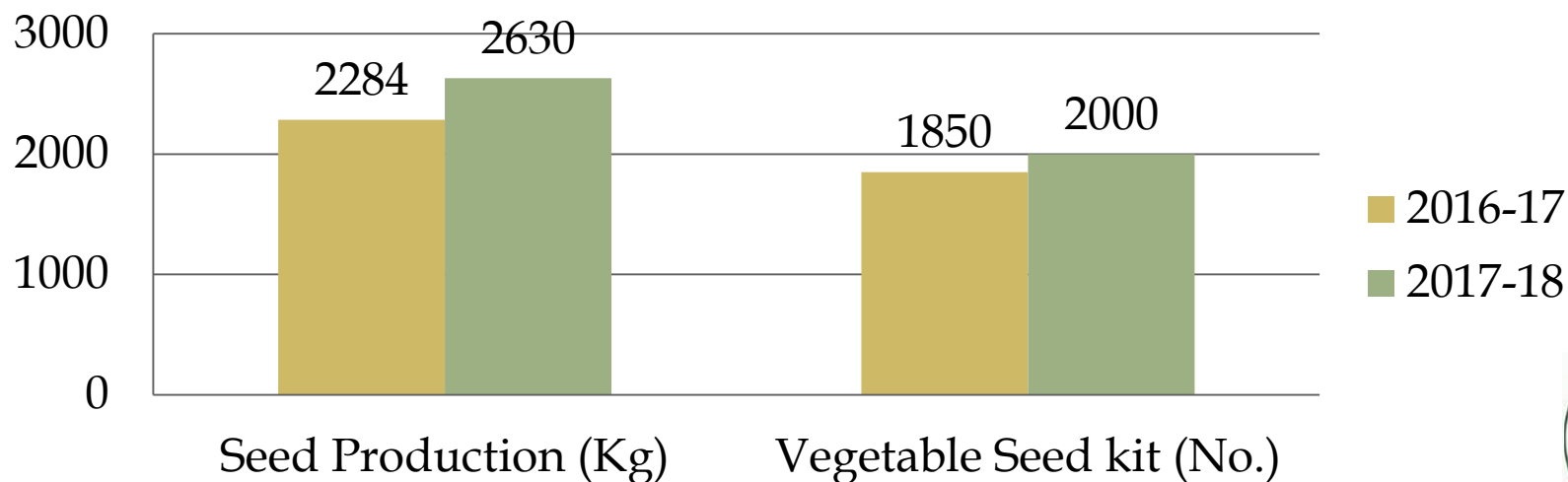


Agricultural Crop Seed Production Target plan :2017-18

Sl.No.	Crop	Variety	Area (ha)	Target (Kg)
Kharif Season				
1	Ragi	ML-365	0.4	400
2	Red gram	BRG - 5	0.4	200
3	Little millet	CO-6/local	0.4	300
Sub Total			1.2 ha	900 Kg

Fodder Crops

1	Fodder Sorghum	CO(FS)-29	0.2 ha	100 kg
Sub Total			0.2 ha	100 kg
Grand Total			4.8 ha	2630 kg



Sale of Vegetable Seeds (2016-17)

Seeds	Quantity(Kg)	Rate(Rs.)	Total Value (Rs.)
Amaranthus	21.24	500	10,620
Palak	22.41	400	89,645
Chilli	5.27	1,800	9,486
Onion	127.95	1,500	1,91,925
Okra	11.47	500	5,735
Tomato	5.1	2,000	10,200
Ridgegourd	3.65	1,000	3,650
Pumpkin	3.15	1,000	3,150
French Bean	1.32	250	330
Vegetable Cowpea	5.82	250	1,456
Bottle gourd	0.55	1,000	550
Pumpkin	0.5	1,000	500
Radish	1.5	500	750
Pappaya Seeds	0.010	1,00,000	1,000
Vegetable Seed kit (No)	1489	100	1,48,900

Seed Production achievements at KVK farm (2016-17)

Sl No.	Crop	Variety	Quantity in kg	Rate (Rs.)	Total Value (Rs.)
1	Red gram	BRG-5	134	150	20,100
2	Palak	Arka Anupama	189	400	75,600
3	Cowpea	Arka Garima	40	250	10,000
4	Tomato	Arka Meghali	20	2000	40,000
5	Amaranthus	Arka Suguna	50*	500	25,000
6	Onion	Arka Kalyan	50*	1500	75,000
7	Onion	Bhema Shakti	200*	1500	3,00,000
8	Radish	Arka Nishant	31	400	12,400
9	Ragi	ML 365	400*	40	16,000
10	Ragi	ML 322	30	40	1,200
11	Sunhemp	Local variety	240	70	16,800
12	French bean	A Suvidha	400*	250	1,00,000
13	Brown top millet	Local variety	500*	80	40,000
		Total	2,284		7,32,100
14	Veg Seed kit (No.)	10 different vegetables	1,850	100	1,85,000
	* Expected Quantity of Seed production			Grand Total	9,17,100



ICAR



KVK

Sale of other Veg seedlings, other Crop Seeds & Seedlings (2016-17)

Seedlings	Quantity(No.s)	Rate(Rs.)	Total Value (Rs.)
Drumstick	1132	12	13584
Papaya	941	10	9410
Chilli	2050	1	2050
Pumpkin	500	1.5	750

Seeds	Quantity (Kg)	Rate	Total Value (Rs.)
Ragi	1,566	40	62,640
Foxtail Millet	13	80	1,040
Fodder. Sorghum	7	500	3,500
Fodder. Cowpea	12	250	3,000
Redgram BRG-5	240	150	36,000
Ground nut	100	80	8,000
Seedlings	No.s		
N.P Grass Cuttings	11300	1	11,300
Total			6,29,171

Farmers Participatory Vegetable seed production during 2016-17

Sl no	Crop	Variety	No of Farmers involved	area in ha	Expected quantity in kg
1	Onion	Arka Kalyan	5 No's	3 ha	1000*
2	Okra	Arka Anamika	2 No's	1 ha	171
3	French Bean	Arka Suvidah	1 No's	1 ha	300*
Total			20 No's	5 ha	1471

*Expected quantity of seed

Farmers Participatory Pulse & Millet seed production (2016-17)

Sl no	Crop	Variety	No of Farmers involved	area in ha	Expected quantity in kg
1	Red gram	BRG- 5	1 No's	0.5ha	75
2	Red gram	BRG-2	1 No's	0.5 ha	169
3	Red gram	GRG-11	2 No's	1 ha	263
4	Ragi	ML -365	1 No's	1 ha	1265
Total			20 No's	3 ha	1772

Vegetable Seed Production Target plan : 2017-18

Sl. No.	Crop	Variety	Area (ha)	Target (kg)
Kharif Season				
1.	French Bean	Arka suvidha	0.4	200
2.	Ridge gourd	Arka sumeet	0.2	50
3.	Amaranthus	Arka suguna	0.2	50
4.	Pumkin	Arka Chandan	0.4	50
5.	Palak	Arka anupama	0.2	50
6.	Cow pea	Arka Garima	0.4	300
7.	Onion	Arka Kalyan	0.2	Bulbs
8.	Onion	Bheema shakti	0.2	Bulbs
Sub Total			2.2	700
Rabi Season				
9.	Onion	Arka Kalyan	0.2	200
10.	Onion	Bheema shakti	0.2	200
11.	Okra	Arka anamika	0.2	200
12.	Brinjal	Arka shirish	0.2	30
13.	Cow pea	Arka garima	0.4	300
Sub Total			1.2	930

Custom Hiring Centre

Sl. No.	Particulars	Crop	Hours used	No of farmers	Revenue generated (Rs.)
1	Seed cum Fertilizer drill	Ragi Redgram	24.7 hrs	12	3,705



Seed cum Fertilizer drill



Ragi Harvester

Production of KVK-Products (2016-17)

Bio Products	Name of the bio-product	Qty (Kg)	Value (Rs.)	No. of Farmers covered
Micro Nutrient Fertilizers	Banana Special	8,165	12,24,750	621
	Vegetable Special	7,681	11,52,150	630
	Mango Special	4,551	6.82,650	363
	Citrus Special	1,069	1,60,350	76
Bio-pesticides	Neem Soap	3,542	5,31,300	684
	Pongamia Soap	1,145	1,40,835	381
	Sealer cum Healer	306	45,900	117
Bio-Fertilizer	Arka Microbial consortium	2.943	4,41,450	410
Pheromone Traps/Lures (No.)	Mango fruit fly traps/Lures	23,159	4,63,180	1260
Others	Amla Squash (Lit)	125	16,250	
	Amla Candy	76	22,800	
	Mushroom Spawn	125	10,000	
	Ragi Malt	60	12,000	
		Total	49,03,615	4542



Soil, Water and Plant Analysis 2016-17

Particulars	No. of samples	No of farmers	Rate /unit (Rs.)	Amount (Rs)
Soil	3,668	2890	100	3,66,800
Water	2,826	1260	50	1,41,300
Plant	35	15	100	3,500
Total	6,529	4165		5, 11,600



Supporting initiatives of public, private and voluntary sector

ICAR Institutes & SAUs

- ▣ ICAR- IIHR:
 - Fruit Wealth Exhibition – 27-29 Apr, 2016
 - Regional Horticulture Fair – 15-19, Jan, 2017
 - Field days, Vegetable Melas
 - Technology Week – AMC
 - Training on Agrl. implements
- ▣ ICAR- NIANP
 - Technology Week – Animal husbandry
- ▣ GKVK – SAMETI & MANAGE, Hyderabad
 - DAESI Programme



State Department

- ❑ Dryland Horticulture – Sujala scheme – Training
- ❑ Krishi Abhiyan Programmes
- ❑ ATMA – Trainings
- ❑ Custom Hiring Centre - Implements
- ❑ Siddaganga Mat – Agri. Exhibition
- ❑ KVK Products – Taluk level
- ❑ School Teachers – Horticulture training
- ❑ State Department Building – Support
- ❑ KMF – Training on Fodder Production
- ❑ Training – Organic Federation
- ❑ Training on Sandalwood cultivation – Wood Science Institute, Bengaluru

Dry land Horticulture Training programme under Sujala Water shed Phase II



1st Batch on 11-13th July 2016



2nd Batch on 3rd October to 5th October 2016



3rd Batch on 23rd to 25th January 2017



4th Batch on 30th January to 01st Feb 2017

Krishi Abhyian 2016



- ❑ DHAN Foundation – Walkathon – Giving forward to society
- ❑ Uttam Grama Seva Trust– Training on Areca leaf plate making
- ❑ ORDER NGO - Millet Mela
- ❑ AVISHKAR NGO - Inauguration of FPOs
- ❑ SKRDP NGO – Trainings
- ❑ MOTHER NGO – Participatory Seed Production

DHAN Foundation



Uttam Grama Seva Trust

**RAGHUKUL
ECO CARE
REC**
Areca leaf plate
Manufacturers

Cordially invites you and
your family to bless on the
occasion of
**Opening
Ceremony**

on 2nd November 2016 Wednesday
between 6 am to 11 am
followed by lunch

Location: No. L4, KSSIDC Indst. Area, B H Road, Tumkur
Land Mark: Opp. to SIT College

Kindly grace the occasion with your presence

Best Compliments from: **Pruthvi: 8123364652 / 9972418188**
B.E. Mechanical

Uttam Grama Seva Trust
Product



NABARD, Tumakuru

- ❑ AMC Production unit - support
- ❑ FPO support- Meeting – 20th Oct 2016
- ❑ State level meet on ‘Doubling farmers Income- 30th Dec 2016 at NABARD, Bengaluru
- ❑ KVK - NABARD - ‘Doubling farmers Income’ Meeting- 10th Jan 2017



Demo units, Facilities Created (2016-17)

Contribution from ICAR-IIHR and CHES

▣ ICAR- IIHR

- Bio-metric facility
- R-Governance (e-Governance) facility
- Renovation – Food processing unit, Neem soap unit, Quarters drainage facility

▣ CHES, Hirehalli

- Areca nut and Coconut Seedling production
- EPABX facility



- ▣ Office Automation – Rs.3.0 lakhs – Laptop, Computers, TV, Speakers
- ▣ Demo units – Rs.8.0 lakhs
- ▣ Repairs and Renovation – Rs.4.0 lakhs
- ▣ Furniture and Fixture – Rs.3.0 lakhs

Demo units- Rs.8 lakhs

No.	Item	Amount (Rs.)
1	Cattle shed	98,971
2	Sheep shed	98,971
3	Soil lab materials	98,694
4	Micro nutrient Mixer	92,312
5	Autoclave	97,325
6	Biodigestor	49,700
7	Food processing unit	71,678
8	Rotavator	98,880
9	Polyhouse	91,125
	Total	7,97,656

Demo Units



Repairs and Renovation – Rs.4.0 lakhs

Items	Rs. In Lakhs
a) Painting of Seed farm building	0.91
b) R.O Plants	0.72
c) Solar Water Heater	0.72
d) Water related work for adjacent Seed farm building	0.10
e) Electricity related work for adjacent Seed farm building	0.76
f) Training hall renovation (stands for TV, Projector, Speaker, Screens etc)	0.55
g) Repair work of furniture and painting of farm gate, fence, rooms etc.	0.24



AMC unit



Healer cum Sealer unit

Solar Panel



R.O.Plant

Furniture and fixtures – Rs.3.0 Lakhs

Items	Rs. In Lakhs
Cots and Dining tables	1.00
a) Beds	0.40
b) Bed Sheet, Bed Spread, Pillow Cover and Curtains	0.32
c) Almeras, Tables and dressing tables for Hostel	0.40
d) Chairs (Training Hall)	0.33
e) EPABX Cables for farmers hostel (which was not included earlier)	0.33
f) Almeras-2 (for staff), Door mats, Dust bins	0.22



Externally Funded Projects

Externally Funded Projects

No.	Name of the Project	Source of Fund	Amount (2016-17) Rs.-Lakhs
1	Participatory Vegetable Seed Production and distribution system	RKVY, GOK (Rs.40 lakhs)	10.00
2	Technology demonstration component of NICRA	CRIDA, ICAR, GOI (Rs.115 Lakhs)	14.5
3	AMC Unit	NABARD, Tumakuru	4.8
5	Conservation Agriculture	CRIDA, Hyderabad	0.5
6	Bhusamruddi Project	Agri and Horti Dept, GoK	8.3
		Total	38.1

Rashtriya Krishi Vikas Yojana

Participatory Seed Production and Distribution System for Recently Released Vegetable Cultivars

1. Equipments of Vegetable Seed Processing Procured.
2. Seed Storage unit of Capacity 2,000 kg seeds completed.
3. Seed Processing Unit completed and Inaugurated by Honorable DDG (Hort. Sci).
4. Farmer Participatory Seed Production of Vegetable seeds Initiated



National Innovation in Climate Resilient Agriculture (NICRA)

Modules

Module I - Natural Resources

Module II - Crop Production

Module III- Livestock & Fisheries

Module IV – Institutional Interventions



Module I - Natural Resources

NRM module

- Collected 100 soil samples for analysis - 100 Nos. benefitting 210 farmers.
- Demonstration of Horse gram PHG-9 as green manure crop covering 5 ha and benefitting 25 farmers.
- Rotary tillage for improving soil structure - 12 ha, 20 farmers.
- Ridges and furrow making for improving soil moisture -7 ha, 30 farmers
- New farm pond, 300 cu.mt -1 NO.
- Farm pond desilting - 5 Nos
- Check dam desilting - 4 Nos
- Diversion channel desilting - 400 mts
- Trench cum bunding-- 5 ha



Module II - Crop Production

Crop Production module

- Drought tolerant variety Finger millet ML-365 – 25 ha, 80 farmers.
- Drought tolerant variety Finger millet GPU-28 – 20 ha, 30 farmers.
- Short duration variety Red gram BRG-2 – 40 ha, 80 farmers.
- Improved variety Cow pea C-152 – 20 ha, 50 farmers.
- Water saving Aerobic Paddy MAS-26 – 12 ha, 30 farmers.
- Tamarind seedlings plantation for dryland horticulture – 6 ha, 55 farmers.



Module III – Live Stock

Livestock & Fisheries

- Maize for fodder production in collaboration with NAINP – 1.5 ha, 3 farmers.
- Fodder sorghum CoFS-29 – 2 ha, 14 farmers.
- Melia dubia seedlings plantation for year round fodder production – 60 fa



Module IV - Institutional Interventions

New Village Climate Risk Management Committee (VCRMC)

Members	Decisions taken
President Ramanjaneya	NRM works
Vice President Bandeppa	Change of rent for diesel engine
Secretary: Nagarajaiah	Smooth running of CHC
Members: Kemparaju, Narasimhanna, Sabjan Sab, Rajanna, Basha Sab Nagaraju	Impact of NICRA intervention Selection of farmers for NRM works Verification of stock register of CHC Makeshift for CHC



Boosamrudhi Project – Rs.8.3 Lakhs (2016-17)

- ❑ Kitchen Garden – Rs.2.24 lakhs (Dept. Of Horticulture) 250 farm women were benefitted from Tumakuru District
- ❑ Nutrition Garden -Rs. 6.06 Lakhs (Dept. Of Agriculture), 750 farm women were benefitted from 5 taluks of Tumakuru District.

Boosamrudhi scheme – Rs.10 Lakhs (2017-18)



DAESI (Diploma in Agrl. Extension service for Input dealers, CA (Conservation Agrl) Projects



Status of Revolving Fund (Rs.)

Year	Opening balance as on 1st April 2016	Income during the year	Expenditure during the year	Closing balance as on 1st April 2017 (Rs.in Lakh)
April 2016 to April 2017	41,04,887	64,65,004	59,75,363	45,94,528

Budget – Details (2016-17)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
I	Recurring Contingencies			
	Pay & Allowances	1,08,50,000		1,08,50,964
	Traveling allowances	1,50,000		1,02,923
	Contingencies			
A	Stationery, telephone, postage & other expenditure on office running, publication of Newsletter & library maintenance	3,00,000	1,41,07,102	3,54,754
B	POL, repair of vehicles, tractor & equipments	3,00,000		1,94,243
C	Meals/refreshment for trainees	1,00,000		74,210
D	Training material	50,000		50,000
E	Frontline demonstration (except oilseeds & pulses + NFSM)	2,44,000		1,93,140
F	On farm testing	66,000		32,313
G	Training of extension functionaries	50,000		33,000
H	Maintenance of buildings	1,00,000		87,854
	Establishment of Soil, Plant & Water Testing Laboratory	50,000		49,800



Sl. No.	Particulars	Sanctioned	Released	Expenditure
J	Library	5,000		5,000
K	Extension Activities	25,000		23,665
L	Integrated Farming System	30,000		30,000
M	Farmer's Field School	30,000		29,699
N	EDP/Innovative activities	30,000		30,000
O	Display Boards	10,000		0
	Total Recurring	1,23,90,000		1,21,41,565
II	Non-Recurring Contingencies			
	Works			
A	Demo Units -2 Nos.	8,00,000		7,05,162
B	Repairs & Renovation	4,00,000		91,125
C	Equipments including SWTL & Furniture			
D	Office Automation	3,00,000		3,04,180
E	Furnitures & Fixtures	3,00,000		1,70,451
F	Library			
	Total Non Recurring	18,00,000		12,70,918
	GR & TOTAL (I+II)	1,41,90,000		1,34,12,483

Thank you from Team KVKK

ಭಾ.ಕೃ.ಅ.ಪ. - ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ,
ಹಿರೇಹಳ್ಳಿ, ತುಮಕೂರು
I.C.A.R - KRISHI VIGYAN KENDRA, HIREHALLI, TUMAKURU

