ICAR- Krishi Vigyan Kendra
Hirehalli, Tumakuru, Karnataka

Annual Review Workshop: 2018-19

14th - 16th, May, 2019
ICAR-KVK, Chikkamagaluru

General Information of KVK

Year of establishment	:	2009-10
Address	:	NH-48, Hirehalli, Tumakuru-572168 Karnataka
Host Institute	:	ICAR-Indian Institute of Horticultural Research, Bengaluru
Phone No./ Fax No. E-mail Website	: : :	0816-2243175/ 2243177 kvk.tumakuru2@icar.gov.in www.iihrkvk.org
Total no. of staff	:	12
Area	:	16.8 Ha (Office- 1.7 Ha, Farm -15.1 Ha)

Particulars	Head	SMS	P.A's	Admin	Drivers	Supporting	Total
Sanctioned	01	06	03	02	02	02	16
Filled	01	05	03	02	01	00	12

KVK Team

N.Loganandhan, Head

12 Staff

Jagadish,SMS(Extn)

B.H.Gowda,SMS(PP)

Radha,SMS(HS)

Prasanth,SMS(Horti)

Ramesh,SMS(Soil)

Shashidhar,PA

Jayasankar,PA

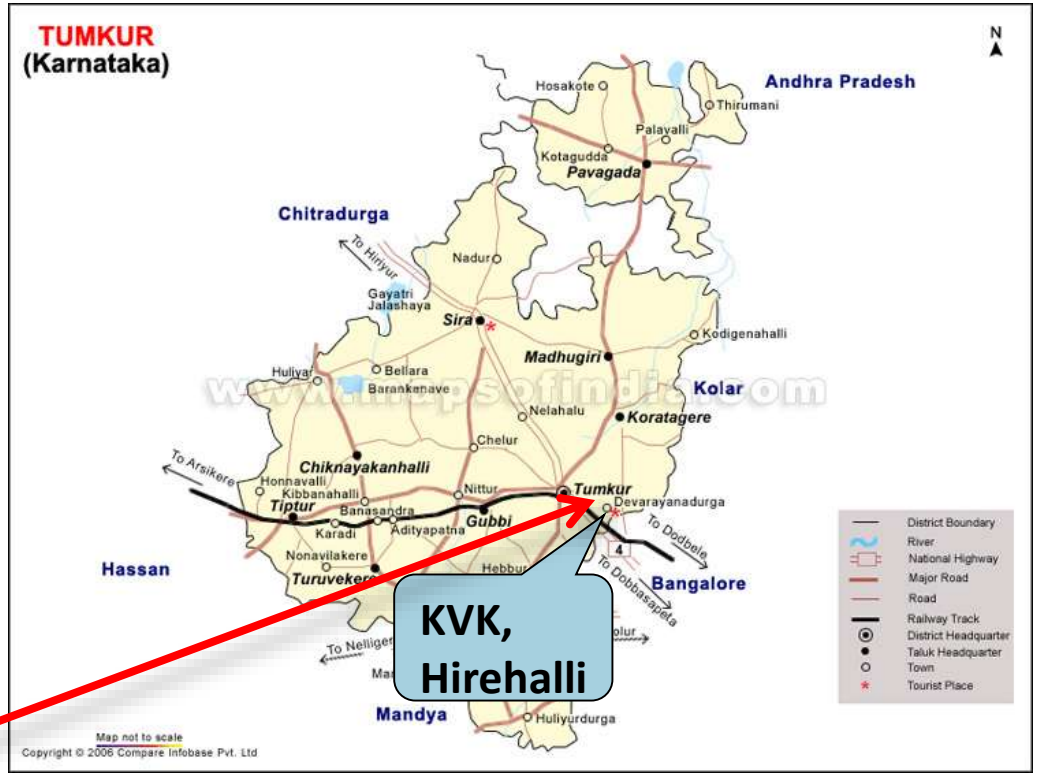
Muralidhara, PA

Ramakrishna,Asst

Veda,Steno

Ningappa,Driver

Location



KVK, Hirehalli

Google Map


Jumma masjid
ಜುಮ್ಮಾ
ಮಸೀದಿ
Mumbai Hwy
Siddaganga High School
KVK
Hirehalli
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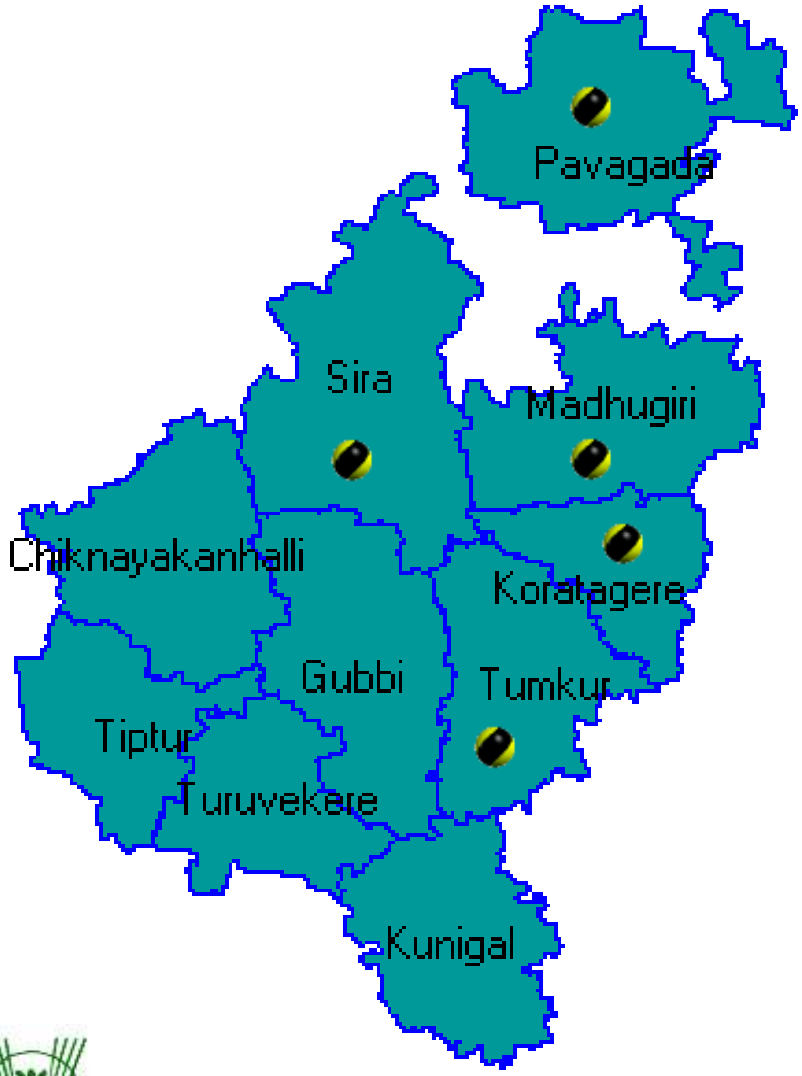
3D
Google

Jurisdiction of KVK and AE Zones



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

District- At a glance

Soil type	Red sandy and Red Loamy Soils
Annual rainfall (mm)	697 mm
Total Geog Area	10,64,755 ha
Population (2011)	26,78,980
Total Gram Panchayats	331
Total villages	2,715
Major farming systems/enterprises	Dry Land Agriculture, Horticulture & Dairy
Major crops	Ragi, Groundnut, Red gram, Paddy, Coconut, Arecanut, Fruits and Vegetables
Major irrigation source	Bore well, Tank, Canal, Open well

Major crops of District -details

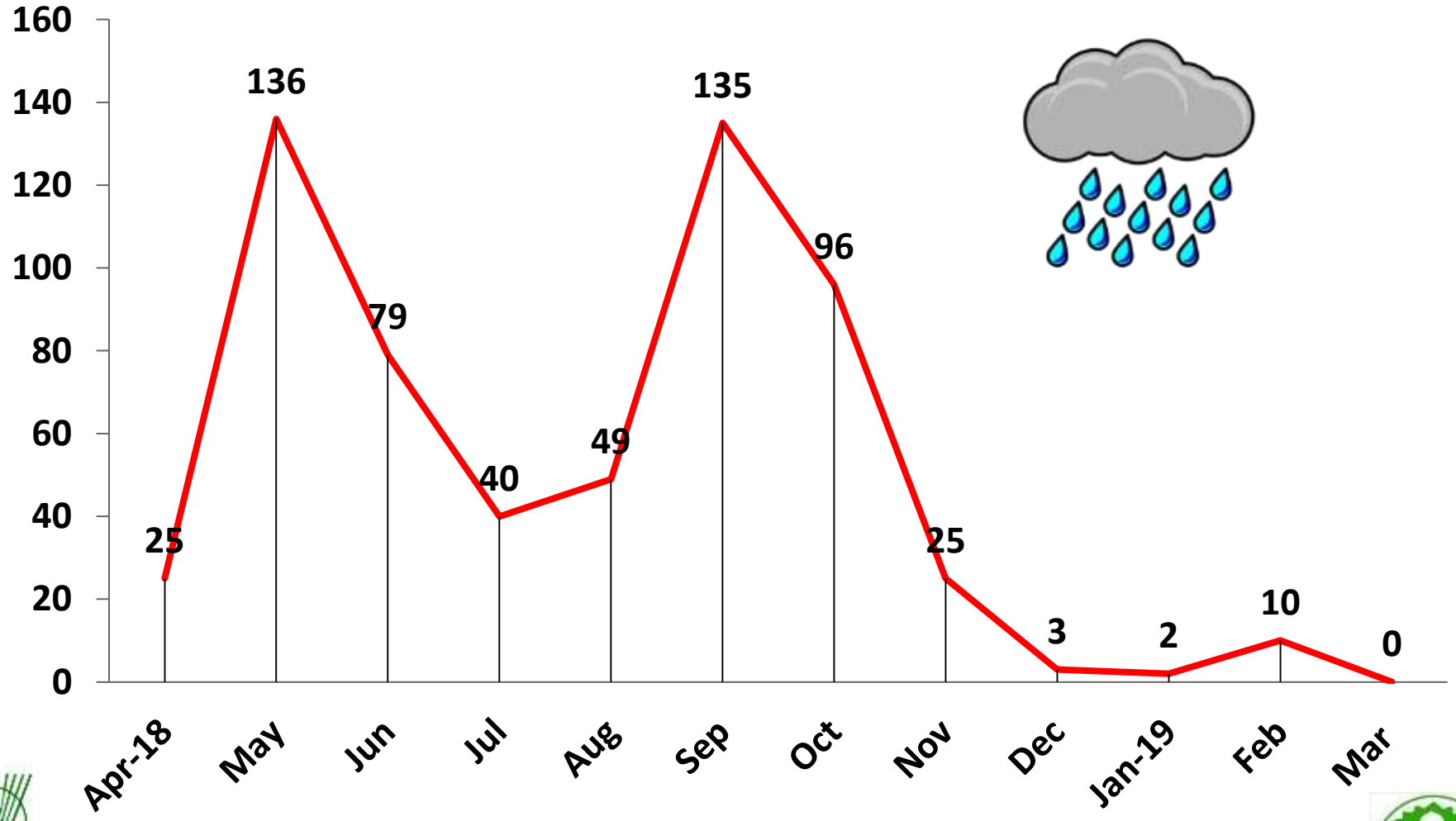
Crop	Area (Ha)	Production (t)	Average Yield of the District	Potential Yield	Yield gap %
Ragi	1,71,527	2,29,290	1,594 kg/ha	2000 kg/ha	25.47
Paddy	9,502	77,165	2,856 kg/ha	5000 kg/ha	75.07
Redgram	9,819	4,868	354 kg/ha	1250 kg/ha	253.1
Groundnut	88,011	22,503	268 kg/ha	750 kg/ha	179.85
Mango	15,152	1,51,520	10 t/ha	20 t /ha	100
Banana	5,174	1,27,346	24.61 t/ha	37.50 t/ha	52.40
Coconut	1,45,660	12,885	0.09 t/ha	0.14 t/ha	55.55
Areca nut	32,341	43,691	1.35 t/ha	2.0 t/ha	48.10
Tomato	1385	74,202	53.58 t/ha	75 t/ha	40.00
Chilli	912	13,204	14.48 t/ha	25 t/ha	72.65
Onion	600	11,881	19.80 t/ha	25 t/ha	26.30

Weather Data-2018-19

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)
		Maximum	Minimum	
Apr 18	25	42.2	15.4	13
May	136	40.9	17.0	18.5
Jun	79	39.6	16.4	31.9
Jul	40	35.8	17.0	27.6
Aug	49	34.8	16.8	25.6
Sep	135	37.4	14.4	22.8
Oct	96	37.6	10.7	15.0
Nov	25	39.2	8.7	10.7
Dec	3	37.0	0	0
Jan 19	2	35.5	0	0
Feb	10	39.6	10.3	3.3
Mar	0	41.1	11.3	4.2

Source: KSNDMC, Bengaluru

Pattern of Rainfall (mm) – 2018-19



Source: KSNDMC, Bengaluru

Rainy days, Dry spells

Month	No of rainy days (>2.5 mm)	Dry spells(Nos.)	No. of days
APRIL 2018	3	2	17 & 10
MAY	13	0	0
JUNE	9	1	20
JULY	4	1	20
AUGUST	6	1	15
SEPTEMBER	9	1	11
OCTOBER	7	1	14
NOVEMBER	4	2	14 & 11
DECEMBER	0	1	31
JANUARY 2019	0	1	31
FEBRUARY	1	2	10 & 17
MARCH	0	1	31
Total	**56**	**14**	

Rainfall pattern (2018-Month wise)

Month	Normal (mm)	Actual (mm)	%DEP
Jan	2.1	0.0	-99.5
Feb	3.2	3.6	13.4
Mar	7	26	258
Apr	33	25	-23
May	87	136	57
Jun	62	79	28
Jul	70	40	-44
Aug	81	49	-40
Sep	148	135	-9
Oct	147	96	-35
Nov	47	25	-47
Dec	10	3	-70
SW	361 (51%)	302	-16
NE	204 (29%)	124	-39
Annual	**697**	**617**	**-12**

Demonstration Units at KVK office and Farm

1	Modern Water Storage Tank (German Technology)
2	Bore Well recharge Unit
3	Minor Fruits Collection Block
4	Areca nut Plantation Unit
5	Flowering & Foliage Tree Demonstration Plot
6	Areca nut Plate Making Unit
7	Avocado Demo Plot
8	Fruit Crops Varietal Demonstration Cum Mother Block
9	Multipurpose Tree Collection Block
10	Areca nut Nursery Unit
11	Medicinal Plant Demonstration Plot
12	Integrated Farming System Block

13	Mist House Unit
14	Farm pond with plastic lining
15	Threshing Yard
16	Farm Machinery Unit
17	Fruit Crop Nursery Unit
18	Shredding Cum Chipping Unit
19	Automatic Weather Station Unit
20	Areca nut Based Model Cropping System Unit
21	Water Harvesting Cum Fish Pond Unit
22	Maduvana Block
23	Graviola Block
24	Drum Stick Seed Production Demo Unit









25	Centralized Irrigation System
26	Betel vine Varietal Collection Unit
27	Areca nut Varietal Collection
28	Coconut Varietal Collection Unit
29	Bio-digester Unit
30	Mushroom Demo Unit
31	Animal Shed – Hallikar breed

Laboratories Details	
1.	Leaf Tissue Analysis Lab
2.	Plant Health Clinic Lab
Production Units	
1.	Micronutrient Production Unit
2.	AMC Production Unit
3.	Processing & Value addition Unit
4.	Neem Soap and Pongamia production unit
5.	Vermi- Compost Production Unit
6.	Compost Production Unit
7.	Vegetable Seed Production Unit
8.	Mushroom Spawn Production Unit
9.	Fish pond Unit
10.	Fruit fly Pheromone traps Production Unit



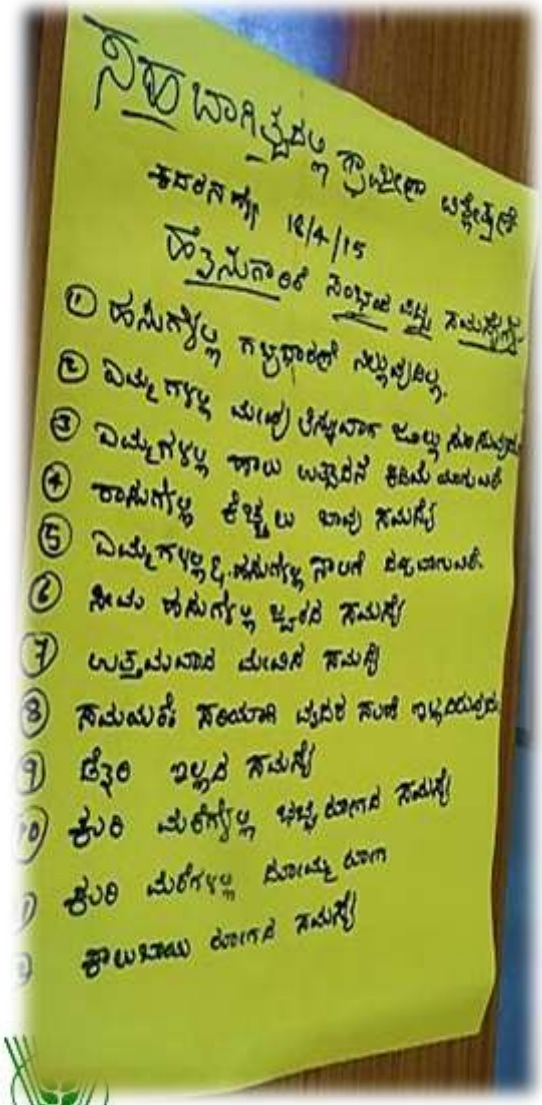






9th Scientific Advisory Committee -11th Feb, 2019

PRA activities in taluks under jurisdiction:



SIRA

MADHUGIRI

PAVAGADA

KORATEGERE

Operational Areas

Taluks	Cluster Villages (17 in no.)
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

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
12	Child and Women care and balanced Nutrition

Major Problems/DFI strategic issues Identified

- *Genoderma* wilt in Arecanut
- Alternate Oil seed crops
- Red gram – Poor yield
- Pomegranate – Bacterial blight and wilt
- Lack of Areca husk decomposing methods
- Major P and D issues in Maize
- Lack of improved HY varieties in Groundnut

- Lack of knowledge in Organic farming practices
- Low yield in vegetable and flower crops
- Lack of improved varieties in Rabi Onion
- Poor Market acceptability in Finger millet byproducts
- Lack of improved fodder crops varieties
- Lack of Knowledge on processing and value addition in Tamarind

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

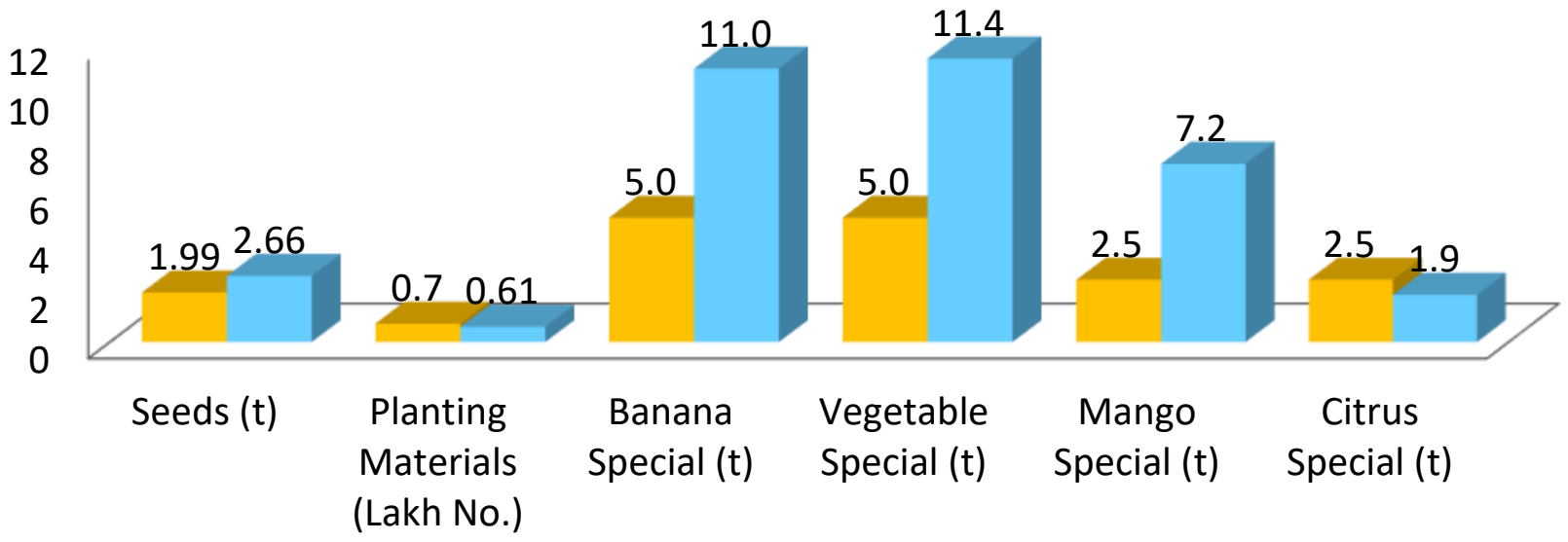
Details of target and achievements of mandatory activities of KVK: 2018-19

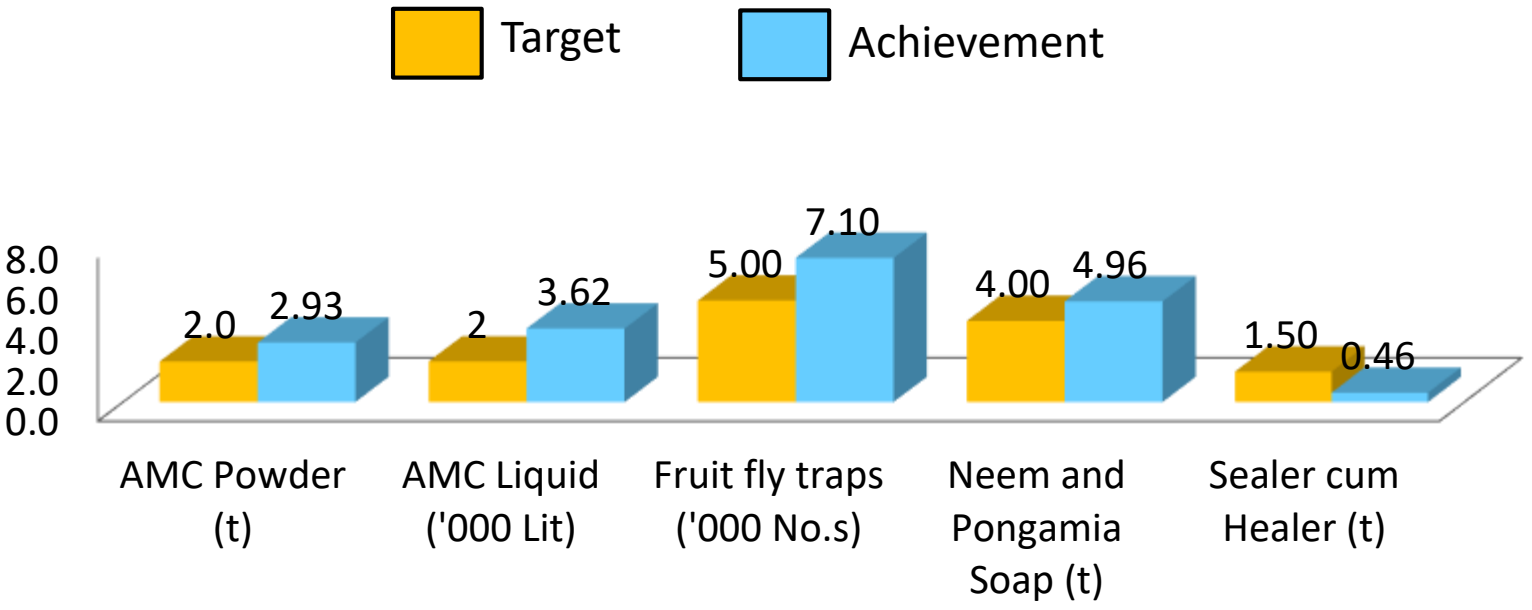
Particulars	Target	Achievement
OFT- Numbers	6	5
OFT- No. of farmers	18	15
FLD- Numbers	11	11
FLD- No. of farmers	58	58
Trainings - Numbers	20	50
Trainings – Number of farmers	665	2392
Extension Programmes: Numbers	349	184
Extension Programmes: Number of farmers	1,12,440	36,319

Details of target and achievements: 2018-19

Seeds and Planting Materials	Target	Achievement
Seed Production (Qtl)	19.90	26.64
Planting Materials (No. in Lakhs)	0.74	0.61
Other KVK Products		
Neem and Pongamia Soap (Kg)	4000	4969
Sealer cum Healer (Kg)	1500	468
AMC Powder (Kg)	2000	2923
AMC Liquid (Lit)	2000	3625
Fruit fly traps / Lures (No.s)	5000	7105
Micro nutrients: Banana Special (Kg)	5000	11066
Vegetable Special (Kg)	5000	11403
Mango Special (Kg)	2500	7176
Citrus Special (Kg)	2500	1974
Amla Candies (Kg)	100	130
Amla Squash (Lit)	1000	359
Ragi Malt (Kg)	100	442
Mushroom Spawn (Kg)	1200	688

Target and achievements 2018-19





Mandate and Activities of KVK

- **Technology assessment, refinement** and demonstration of technology/products.
  - **On-farm testing** to identify the location specificity of agricultural technologies under various farming systems.
  - **Frontline demonstrations** to establish its production potentials on the farmers' fields.
  - **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.
  - 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.
  - In order to create awareness about improved technology, a large number of **extension activities** will be taken up.
  - **The seeds and planting materials** produced by the KVKs will also be made available to the farmers.

Abstract of Interventions during 2018-19

Sl.No.	Interventions
1	On Farm Testing
2	Front Line Demonstrations and Entrepreneurship Development Programme including CFLDs
3	Training of farmers and extension personnel
4	Extension Activities for Awareness creation
5	HRD, Awards and Recognition
6	Production of Seeds, Planting materials and other Products
7	Activities as Resource and Knowledge Centre
8	Demo units, other facilities created and important visitors
9	Impact of KVK and success stories
10	RFS and Budget utilized

On Farm Testing

On Farm Testing

Abstract of OFTs during 2018-19

No.	Title	In-charge
1.	Assessment of Mustard varieties as alternative oilseed crops	SMS (SS)
2.	Assessment of onion varieties for Rabi	SMS (Horti)
3.	Assessment on Management of Downy mildew in Cucumber	SMS (PP)
4	Assessment of different storage methods to extend shelf life of Jasmine (Kakada)	SMS (HSc)
5	Assessment of suitable intercrops for Mango orchards	SMS (SS)
6	Assessment of decomposing culture in compost preparation (Areca husk)	SMS (Extn)

1. Mustard varieties as oil seed crops

Title of Technology	:	Assessment of Mustard varieties as alternative oil seed crops
Problem Definition	:	Lack of suitable oilseed crop during Rabi season, high pungency in oil

No. of Trials : 3 Area : 0.3 ha Soil type : Red sandy loam
Farming Situation : Irrigated Season & Year : Rabi, 2018-19

SMS (Soil Science)

Technology Options	Details of technology	Source of Technology	Justification
T1: RP	Ground nut	UAS, Bengaluru	Low income, high foliar disease
T2 :AP	PUSA 25	IARI, New Delhi	Yield : 1.5t/ha, seeds contain 39.6% oil, short duration(107days)
T3 : AP	PUSA 28	IARI, New Delhi	Yield: 2 t/ha, seeds contain 41.5% oil, short duration(115days)
T4 : AP	PUSA 30	IARI, New Delhi	Yield: 2.2 t/ha, seeds contain 37.7% oil, short duration(137 days)
T5 : AP	PUSA 31	IARI, New Delhi	Yield : 2.37 t/ha, seeds contain 40.56% oil, long duration(144 days)

Assessment of Mustard varieties for Rabi

PUSA 25

PUSA 31

PUSA 28

Results 2018-19

Particulars	Yield Particulars			Economics			
	Test wt. (g)	Yield (q/ha)	Oil content (%)	COC (Rs./ha)	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Ground nut	35.8	15.3	48.8	25,890	59,670	33,780	2.3
PUSA 25	3.8	0.981	28.41	22,530	83,385	60,855	3.70
PUSA 28	4.1	1.134	38.17	22,530	96,390	73,860	4.28
PUSA 30	3.5	1.323	38.84	22,530	1,12,455	89,925	4.99
PUSA 31	3.0	1.407	37.7	22,530	1,19,595	97,065	5.31

Price: Rs.8,000/ qtl

Conclusion

- Farmers' Feedback: Pusa 31 and Pusa 28 were found to be more profitable for Rabi season as compared to Ground nut
- Found to be better alternative to Groundnut, if market is assured (DFI Strategy)
- PUSA-28 is a short duration variety (115 days) suitable for erratic rainfall
- This OFT will be continued during 2019-20 in Rabi.

2. Onion Rabi varieties

Title of Technology	:	Assessment of Onion varieties for Rabi season
Problem Definition	:	Non availability of Rabi varieties and Poor storability of bulbs in Kharif

No. of Trials : 3 Area : 0.4 ha Soil type : Red sandy loam
Farming Situation: Irrigated Season & Year : Rabi, 2018-19

SMS (Horticulture)

Technology Options`	Details of technology	Source of Technology	Justification
T1: RP	Arka Niketan	IIHR, Bengaluru	•Bulbs globular with thin neck, attractive colour, 46 cm in size. Good keeping quality. Plant matures in 145 days after transplanting.
T2 :AP	Bhima Shakti	DOG, Pune	•Recommended for late *Kharif* and Rabi •Bulb shape –Round •110-115 days to Maturity with Medium red •Better storage
T3 : AP	NHRDF L-3 Red	NHRDF Hubli	Bulbs are attractive dark red in colour. Better storage performance. Mature in 110-120 days.

T3: NHRDF L-3 red

T2: Bhima Shakti

T1: Arka Niketan

OFT Plot Field observation

Results 2018-19

Particulars	Crop Particulars			Economics				
	Bulb width (cm)	Avg. Bulb Weight (gm)	Purple blotch disease incidence (%)	Yield (q/ha)	COC (Rs.)	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Arka Niketan	3.85	58.22	12.96	228.20	41,477	1,32,356	90,879	3.19
Bhima Shakti	5.53	61.82	19.07	213.04	41,477	1,23,563	82,086	2.97
NHRDF 3 Red	5.60	71.46	16.33	234.32	40,902	1,35,906	95,004	3.32

Price: Rs.580 / qtl

Conclusion

- Farmers' Feedback: NHRDF 3 red and Arka Niketan were found to be more profitable for Rabi season as compared to Bhima Shakti. Purple blotch incidence is less in Arka Niketan.
- This OFT will be continued during 2019-20 in Rabi.

3.Downy mildew in Cucumber

Title of Technology	:	Assessment on Management of Downy mildew in Cucumber
Problem Definition	:	Incidence of Downy mildew–448ha affected in the district

No. of Trials : 3 Area : 1.2 ha Soil Type : Red sandy soil
Farming Situation : Irrigated Season & Year : Kharif 2018

SMS (Pl. Protection)

Technology Options	Details of Technology	Source of Technology	Justification
T 1 : FP & RP	Spray the crop with Metalaxyl + Mancozeb (0.2%) and Cymoxanil+ Mancozeb (0.2%)	UAS (B) & UHS, Bagalkot	Control of downy mildew is moderate and more residue content
T 2: AP	Seed treatment with Captan (2g/kg seeds) Spray of Mancozeb (0.2%) & Cymoxanil+Mancozeb (0.2%)	IIHR, Bengaluru	High Frequent sprays causes more residue and high COC.
T 3 : AP	1. Seed treatment with Metalaxyl (2g/kg seeds) 2. *Trichoderma harzianum* enriched Farm Yard Manure (@ 1 kg / 100 kg FYM) application 3.Prophylactic Spray with Mancozeb (0.25%) followed by Spraying of Metalaxyl+ Mancozeb (0.25%) and Dimethomorph (0.1%)+ Mancozeb (0.2%)	IIVR, Varanasi	Integration of all the methods helps to reduce the disease incidence.

Results–2018-19

Technology Practices	Observations on Per cent Disease severity					Avg. disease severity
	20 DAS	30 DAS	40 DAS	50 DAS	60 DAS	
T- 1: Local Practice	15.15	34.33	29.66	25.33	20.33	24.96
T-2: Recommended practice	15.28	30.82	25.62	23.25	22.62	23.52
T-3: Alternate practice	6.66	13.20	1.14	6.14	4.49	6.32

Technology Practices	Yield (qtls/ha)	% increase in yield	Cost of cultivation in Rs.	Total gross returns (Rs./ha)	Total Net returns (Rs./ha)	B:C ratio
T- 1: Local Practice	28.10	3.33	46,888	1,12,400	65,512	2.40
T2:Recommended practice	29.07		45,354	1,16,280	70,926	2.56
T-3: Alternate practice	34.46	15.64	41,354	1,37,840	96,486	3.33

Conclusion

Farmers' Feedback:

- Application of *Trichoderma harzianum* enriched Farm Yard Manure, Seed treatment and Prophylactic Spray with chemicals found very useful in control of disease as well as less residue content.

4. Different storage methods for Jasmine (Kakada)

Title of Technology	:	Assessment of different storage methods to extend shelf life of Jasmine (Kakada)
Problem Definition	:	Highly perishable flowers, Low price during glut and Lack of knowledge on storage

No. of Trials : 3 Season & Year : Kharif, 2018-19

SMS (Home Science)

Technology Options	Details of technology	Source of Technology	Justification
T1: FP	Farmers practice	-	Storage in wet gunny bags
T2 :AP	200 µ Polythene bags	TNAU	Storage in Polythene bags(200µ)
T3 : AP	300 µ Polythene bags	TNAU	Storage in Polythene bags(300µ)
T4 : AP	4% Boric acid treatment	UAS, Raichur	Storage in Polythene bags (200µ) with 4% Boric acid treatment

Results 2018-19										
Parti-culars	Shelf Life (Hrs)	Physiological loss in Weight (%)			Freshness Index (%)			Colour retention Index(%)		
		24 hrs	48 hrs	72 hrs	24 hrs	48 hrs	72 hrs	24 hrs	48 hrs	72 hrs
Control	28	33.33	50.20	60.60	70.20	0.00	0.00	60.20	32.00	0.00
200 Gauge	80	6.26	10.20	16.10	100	95.20	90.20	96.20	87.40	80.60
300 Gauge	84	4.10	7.30	13.84	100	97.00	92.60	98.20	92.62	86.40
4% Boric Acid	78	2.26	6.3	10.50	100	86.00	78.80	90.30	80.00	76.44

Conclusion

- Farmers' Feedback: Flowers packed in 300µ were found to be more suitable for packing followed by 200µ compared to farmer's practice and 4 % Boric acid treatment.
- This OFT will be continued during 2019-20.

5.Assessment of suitable intercrops for Mango orchard

Title of Technology	:	Assessment of suitable intercrops for Mango orchard
Problem Definition	:	Soil erosion due to wind and runoff, Low fertility status of mango gardens, non utilization of in-between space

No. of Trials : 3 Area : 0.3 ha Soil type : Red sandy loam
Farming Situation :Rainfed Season & Year : Kharif/Rabi, 2018-19

SMS (Soil Science)

Technology Options	Details of technology	Source of Technology	Justification
T1: RP	Mango	Farmer practice	Mono cropping
T2 :AP	Mango + Pigeonpea	IARI, New Delhi	To increase the soil fertility and additional income
T3 : AP	Mango + Field bean	IARI, New Delhi	To increase the soil fertility and additional income
T4 : AP	Mango + Horse gram	IARI, New Delhi	To increase the soil fertility and additional income

Assessment of suitable intercrops for Mango orchard

6.Assessment of decomposing cultures

Title of Technology	:	Assessment of different compost cultures in compost preparation (Areca husk)
Problem Definition	:	Unscientific disposal of Areca Husk Lack of Knowledge on better utilization of Areca Husk

No. of Trials : 3 Season & Year : Summer, 2019

Technology Options	Details of technology	Source of Technology	Justification
T1: RP	Areca Husk + Cow dung slurry	Farmer Practice	Time consumption is more for decomposing
T2 :AP	Areca Husk + Decomposer	ICAR-IIHR, Hesaraghatta	Fast and proper decomposing method
T3 : AP	Areca Husk + Decomposer	UAS, Dharwad	Fast and proper decomposing method
T4 : AP	Areca Husk + Waste Decomposer	NCOF, Ghaziabad	Fast and proper decomposing method

Results: on going

FLDs and EDP

Front Line Demonstrations, EDP and CFLD

Abstract during 2018-19

No	Title	SMS
1.	Integrated Pest and Disease Management in Maize	PP
2.	Demonstration of Arka Actino-Plus (ACP) on Growth and Yield of Brinjal	Soil Sci
3.	Demonstration of Bio-rationals in French bean	Soil Sci
4.	ICM in French bean– Arka Arjun	Horti
5.	Integrated Pest and Disease Management in Bhendi	PP
6.	ICM in Chilli - Arka Kyathi	Horti
7.	ICM in China Aster – Arka Kamini	Horti
8.	ICM in Arecanut	Soil Sci
9.	Demonstration of Finger millet variety KMR 340 for value addition	HS
10.	Oyster mushroom production, value addition and market linkage (EDP)	HS
11.	Demonstration of Fodder sorghum CoFS 29	Extn
1.	EDP: Tamarind Value Addition, Branding and Market linkage	HS
1.	Enhancement of Pigeon pea yield through introduction of BRG – 5 under CFLD	PP
2.	Enhancement of Groundnut (K-6) yield under CFLD	PP

1.Integrated Pest and Disease Management in Maize

Crop	Maize
Thrust Area	Pest and disease incidence
District Area / Avg. Yield	12580 ha / 52 q/ha
Problems	Downy mildew and *Turcicum* leaf blight Stem borer incidence
Technology demonstrated	Demonstration *Turcicum* leaf blight and *Fusarium* Stalk rot tolerant hybrid: MAH-14-5 Seed treatment with Metalaxil M + Mancozeb (4g/kg of seeds) for Downy mildew Spraying of Chlropyriphos (2ml/ltr) for stem borer.
Source	UAS, Bengaluru
Parameters studied	Plant height, Cob size, Cob length, % Stem borer, Downy mildew and *Turcicum* leaf blight incidence, Yield, B:C ratio
Cluster Villages	Lingadahalli(P) and Seethakallu(T)
Season	Kharif, 2018
SMS	Plant protection

Critical inputs provided	Area (ha)	No. of Farmers
Seeds-5 kg, Bio fertilizer-AMC 2.50kg, Metalaxyl+ Mancozeb-250g Chlropyriophos-250ml	2	5

Results 2018-19

Technology Practices	Per cent Disease Incidence		Plant ht. in cms	Avg.cob Length in cms	Test weight in gms
	TLB (%)	DM (%)			
Demonstration	2.03	4.56	227.40	24.84	34.56
Check	21.13	27.36	213.4	22.16	36.36

Technology Practices	Yield (qtls/ha)	% increase in yield	Cost of cultivation in Rs.	Total gross returns (Rs./ha)	Total Net returns (Rs./ha)	B:C ratio
Demonstration	80.17	13.53	43507.5	128280	84772.5	2.94
Check	70.62		42230	113000	70770	2.67

Price: Rs.1,300/qtl

Conclusion

- **Farmers' Feedback:** MAH-14-5 hybrid performed very well in case of yield parameters.
- TLB and Downy mildew Disease incidence was also observed to be very low.

2. Demonstration of Arka Actino-Plus (ACT) on Growth and Yield of Brinjal

Crop	Brinjal
Thrust Area	INM
District Area / Avg. Yield	418 ha / 22t /ha
Problems	Low nutrient use efficiency & soil fertility, Severe incidence of wilt and lower yield
Technology demonstrated	Seed treatment with ACT- 10g/ 100g of seeds, ACT- 20g/ litre of water and applied near root zone on 10th DAT.
Source	IIHR, Bengaluru
Parameters studied	Plant height (cm), Per cent wilt disease, Yield (t/ha)
Cluster Villages	Badavanahalli, Hodekallu, Tumakuru
Season	Kharif 2018
SMS	Soil Science

Critical inputs provided	Area (ha)	No. of Farmers
ACT -60 kg /ha	1	5

Field visits

Treated

Control

Results 2018-19

Particulars	Avg. Plant height (ft)	Wilt disease incidence (%)	Avg. Yield (t/ha)	% Increase	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonstration	3.2	6	23.9	27.81	74,425	4,30,200	3,55,775	5.78
Check	2.3	17	18.7		79,570	3,36,600	2,57,030	4.23

Price: Rs.18/kg

Conclusion

- Farmers' Feedback : Application of ACT increased the plant growth and reduced the wilt disease and improved the fruit quality.
- Increased the brinjal yield by 27.81 % compared to farmers practices

3. Demonstration of Bio-rationals in French bean

Crop	French bean
Thrust area	Organic farming
District Area / Avg. Yield	250 ha / 11.4 ton/ha
Problems	Poor soil health and low soil fertility
Technology demonstrated	Jeevamrutha- 2000 lits/ha
Source	UAS, Bengaluru
Parameters studied	Plant height (cm), Pod length (cm), Root length (cm), Yield (t/ha)
Cluster Villages	Kadaranahalli, Durgadahalli, Tumakuru and Anupanahalli
Season	Rabi, 2018
SMS	Soil Science

Critical inputs provided	Area (ha)	No. of Farmers
Jeevamrutha- 2000 lits /ha	1	5

Soil Test Report

Chemical analysis	pH	OC	N	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu
Unit		%	kg/acre			ppm						
Optimum range	6.5-7.5	0.75-1.0	112-224	9-22	50-120	800-1500	150-250	10 - 15	5 - 10	3 - 8	0.75 -1	0.5-1
Before	6.8	0.52	119	13.2	90.7	974	210	9.8	16.8	10.7	0.8	0.31
After	6.6	0.61	148	14.5	95.2	1140	235	11.1	24.5	11.8	0.9	0.53

Results 2018-19

Particulars	Avg. Plant height (cm)	Root lenght (cm)	Pod lenght (cm)	Avg. Yield (t/ha)	% Increase	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonstration	64.1	15.3	15.21	10.51	23.2	33,131	1,56,049	1,22,918	4.7
Check	45.7	11.7	12.45	8.53		36,253	1,17,287	81,034	3.2

Price: Rs.15/kg

Conclusion

- Farmers' Feedback: Application of Jeevamrutha increased the plant growth and reduced the cost of cultivation and improved the pod quality.
- Increased the activity of earthworms in the demo plots.
- Increased the French bean yield by 23.2 % compared to farmers practices

4. Integrated Crop Management in French Bean - Arka Arjun

Crop	French Bean
Thrust Area	ICM
District Area / Avge.Yield	491 ha / 12 t/ha
Problems	Low yield, Use of local varieties, Non use of disease resistance varieties, Improper Nutrient Management
Technology demonstrated	Arka Arjun (YMV resistant, bush type, pods round and stringless), AMC : Drenching @ 20g /lit (10 DAS) - Vegetable Special- 2gm /lit & Neem soap : @ 7 g/lit
Source	IIHR Bengaluru
Parameters studied	Pod length (cm), Weight (g), No. of pods /plant, Yield (t /ha) and Mosaic Diseases incidence (%)
Season	*Rabi/Summer* 2018-19
Cluster	Anupanhalli, Tanganahalli, Badavanahalli
SMS	Horticulture

Critical inputs provided	Area (ha)	No. of Farmers
Arka Arjun seeds -40 kg AMC- 5 kg	**1.0**	**05**

Tanganahalli

Badavanahalli

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Results 2018-19

Particulars	Parameters			Economics				
	No of pods /plant	Length of pods (cm)	Yield (t/ha)	% Increase	Gross Cost (Rs	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	35.6	14.53	7.80	24.40	36,776	1,56,080	1,19,304	4.24
Local	28.8	13.01	6.27		37,882	1,25,400	87,518	3.31

Price: : Rs.20 /kg

Conclusion

French Bean Arka Arjun was found to be more profitable with an additional income of Rs. 30,680 per ha as compared to Local.

5.Integrated Pest and Disease Management in Bhendi

Crop	Bhendi
Thrust Area	Pest and disease incidence
District Area / Avg. Yield	175 ha / 16.5 t/ha
Problems	Higher incidence of Bhendi yellow vein Mosaic, Low yield
Technology demonstrated	Arka Nikitha -F1 hybrid (125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha ,) AMC : Drenching @ 10ml /lit Vegetable Special- 2gm /lit at starts at flower initiation stage and regular 15 days interval
Source	IIHR, Bengaluru
Parameters studied	Plant height, No. of flowers, No. of fruits, Fruit length, BYVM %, Yield and B:C Ratio
Cluster Villages	Lingadahalli(P) and Seethakallu(T)
Season	Summer, 2019
SMS	Plant protection

Critical inputs provided	Area (ha)	No. of Farmers
Seeds-2.5kg, Organic Manure-250kg, AMC-10kg, Vegetable special-1kg	2	5

Results of 2018-19 (On going….)

Details of technology	Germination %
Demo plot	92.44
Control	88.66

6. Integrated Crop Management in Chilli

Crop	Chilli
Thrust Area	ICM
District Area / Avge.Yield	1393 ha / 14.01 t/ha
Problems	Low yield, Local varieties, Imbalanced nutrition, Disease incidence – Mosaic virus susceptible
Technology demonstrated	Arka Kyathi -F1 hybrid- Green and turn red on maturity, tolerant to powdery mildew and CMV, duration 180 days. AMC: Drenching and Spraying, Vegetable Special- 3gm /lit, Yellow sticky traps and Neem Soap @7 gm /lit
Source	IIHR, Bengaluru
Parameters studied	Plant height (cm), No of fruits /plant, Fruit weight (g), Mosaic Incidence, Yield (t/ha)
Cluster Villages	K.P Halli, Rangapura, Seethakal, Devarayanaroppa
Season	Rabi, 2018
SMS	Horticulture

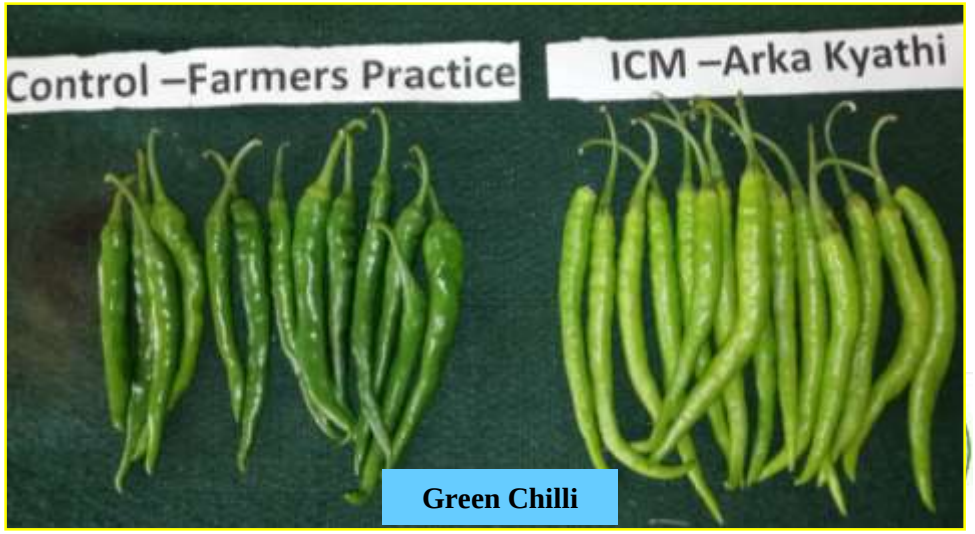
Critical inputs provided	Area (ha)	No. of Farmers
Seeds-30 gm, Bio fertilizer AMC- 1 lit, Yellow Sticky traps - 05 Nos, Vegetable special -2 kg, Neem Soap-2 kg	01	05

Farmers Practice- Rangapura

Demonstration plot –K. P. Halli

Red Chilli

Devarayanaroppa



Green Chilli

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Field Day at K P Halli

Farmer Opinion

Results 2018-19

Particulars		Parameters				Economics				
	Days taken to 50% flowering	No of fruits /plant	Fruit weight (g)	Disease Incidence(%)	Avg Yield (t/ha)	% increased yield	Gross cost (Rs/ha)	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	42.33	210	5.82	6.23	22.52	29.72	57940	270240	212230	4.66
Control	48.22	193	4.87	35.28	17.36		54650	208320	153680	3.81

Price Green chilli - Rs. 12 /kg

Conclusion

- Addl. yield of 5.16 t/ha, i.e. Rs. 60,000/- income (Green chilli)
- Farmers' Feedback: Arka Kyathi hybrid gives high yield, Less leaf curl incidence and fetches good price in the market compared to local.
- For Red chilli (dry) on an Average Rs. 70,000 additional income can be obtained
- Harvested good quality fruits.

7. Integrated Crop Management in China Aster

Crop	China Aster
Thrust Area	ICM
District Area / Avg.Yield	1400 ha / 4 t/ha
Problems	Small size flowers, less shelf life, less attractive colour and low yield
Technology demonstrated	ARKA Kamini : Deep pink colored flowers, more attractive than the local pink variety, Flowers are 6 cm in diameter and weight of 2g each, each plant produces about 50 flowers.
Source	IIHR Bengaluru
Parameters studied	No of flowers, Flower weight (gm), Yield (t/ha)
Cluster Villages	Kurihalli, Apenahalli, Badavanahalli, Anupanahalli
Season	Rabi, 2018
SMS	Horticulture

Critical inputs provided	Area (ha)	No. of Farmers
Aster – Arka Kamini Seeds – 750 g/ha Bio fertilizers- AMC -5 kg	01	05

Demonstration plots at Anupanahalli, Badavanahalli Tumkur

Results 2018-19

Particulars	Parameters			Economics				
	No of Flowers /plant	Flower Diameter (cm)	Yield (t/ha)	% Increase	Gross Cost (Rs	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	43.1	4.56	7.43	22.20	34,320	1,33,740	99,420	3.90
Local	32.88	4.22	6.08		36,850	1,0,9476	72,626	2.97

Price Rs. 18 /kg

Conclusion

- Farmers' Feedback: Early flowering (38-40 days), Medium sized and more numbers of flowers per plant, suited for loose flowers, garland and bedding.
- Medium shelf life (3 days)

Demonstration plots – Anupanahalli &Apenahalli

8. ICM in Arecanut

Crop	Arecanut
Thrust Area	ICM
District Area / Avg.Yield	34,182 ha / 0.8 ton per ha
Problems	Monocropping, low nutrient status and low yield, button shedding, mites, stem bleeding, Ganoderma wilt, pests
Technology demonstrated	FYM-20 kg per tree, Neem cake-2 kg per tree, French bean seeds-10 kg/ acre, RDF-100:40:140 per tree, Borax-30 g per tree, COC- 10 g per lit water and Hexaconazole -3 ml per 125 ml water
Source	CPCRI, Bengaluru
Parameters studied	Yield and economics
Season	Kharif, 2018
Cluster	Thanganhalli, Vaddarahalli, Chikkadoddawadi
SMS	Soil Science

Critical inputs provided	Area (ha)	No. of Farmers
Neem cake-2 kg per tree, French bean seeds-10 kg/ acre, Borax-30 g per tree, COC- 10g per lit water, Hexaconazole -3 ml per 125 ml water	1	5

Soil Test Report

Chemical analysis	pH	OC	N	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu
Unit		%	kg/acre			ppm						
Optimum range	6.5-7.5	0.75-1	112-224	9-22	50-120	800-1500	150-250	10 - 15	5 - 10	3 - 8	0.75 -1	0.5-1
Before	7.4	0.52	115	8.1	80.1	711	162	7.5	19.5	9.2	0.5	0.10
After	7.1	0.68	192	10.3	109.5	957	207	9.1	21.2	10.1	0.7	0.3

Method demonstration of application of Hexaconazole

Results 2018-19

Particulars	Avg. Yield (Arecanut) (ton/ha)	Intercrop Avg. Yield (ton/ha)	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonstration	1.05	2.8	81,450	2,41,950	1,60,500	3.0
Check	1.04	-	72,550	1,97,850	1,25,300	2.7

French bean: Rs 15/Kg
Areca nut : Rs. 19,000/qt

Conclusion

- Farmers' Feedback: French bean Intercropping has resulted in additional income of Rs. 33,100/ha.
- ICM in Arecanut increased the income up to 28% as compared to check

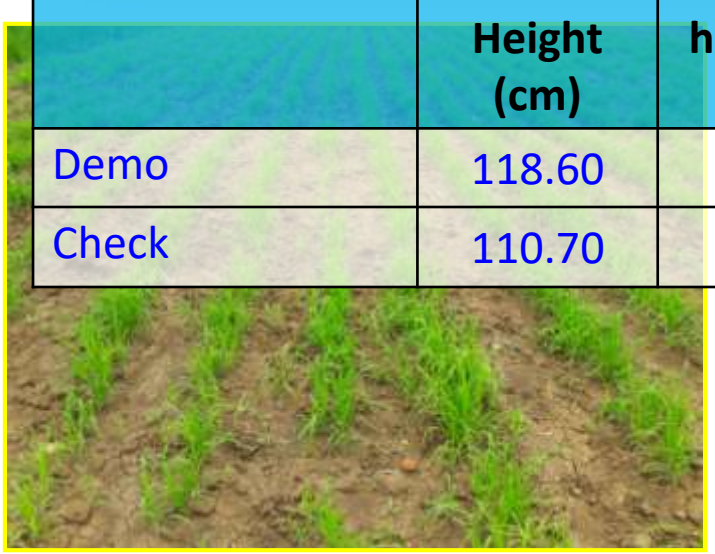
9.Demonstration of Finger millet Variety KMR 340 for Value Addition

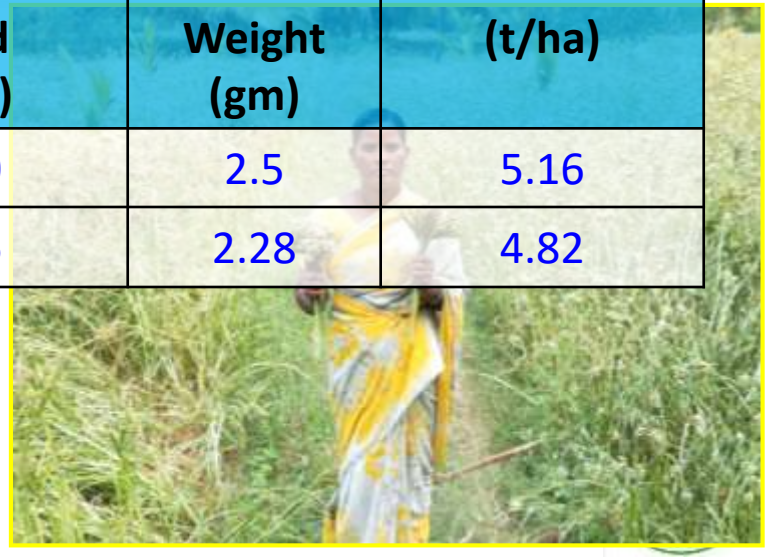
Crop	Ragi
Thrust Area	Value addition
District Area	1.87 lakh, ha
Problems	Less acceptability of value added products from existing varieties due to brown colour
Technology Demonstrated	KMR-340: white Ragi variety Value addition: Ragi Malt, Ragi hurihittu, Ragi chakli, Ragi laddu and Ragi Biscuit
Source	UAS, Bengaluru
Parameters studied	Yield parameters, economics , BCR, Consumer Acceptability & Market linkage
Cluster Villages	Ganjalagunte, Timlapura, Tovinakere
Season	Late Kharif 2018
SMS	Home Science

Critical inputs provided	Area (ha)	No. of Farmers
KMR-340 seeds-5kg, Packing materials-5kg and Labels-400nos. per demo	2	5

Results 2018-19

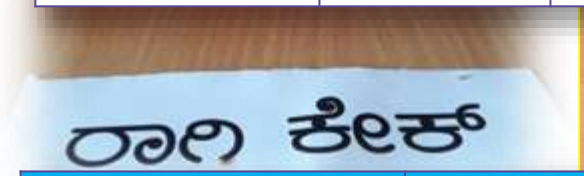
Particulars	Plant Height (cm)	No of Ear heads(Nos)	Fingers/ear head (Nos)	Test Weight (gm)	Straw Yield (t/ha)
Demo	118.60	6.20	7.50	2.5	5.16
Check	110.70	4.86	5.86	2.28	4.82

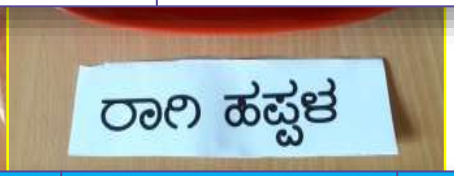






Particulars	Yield (q/ha)	% Increase	Gross cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	BCR
Demo	23.60	22.92	36,532	86,200	49,668	2.35
Check	19.20		33,850	54,200	20,400	1.60



Particulars	Ragi Malt (Rs/kg)	Ragi laddu (Rs/kg)	Ragi Papad (Rs/kg)	Ragi Mixture (Rs/kg)	Ragi Biscuit (Rs/kg)
Demo (White Ragi)	200	300	250	250	350
Check (Brown RagI)	160	250	200	220	300

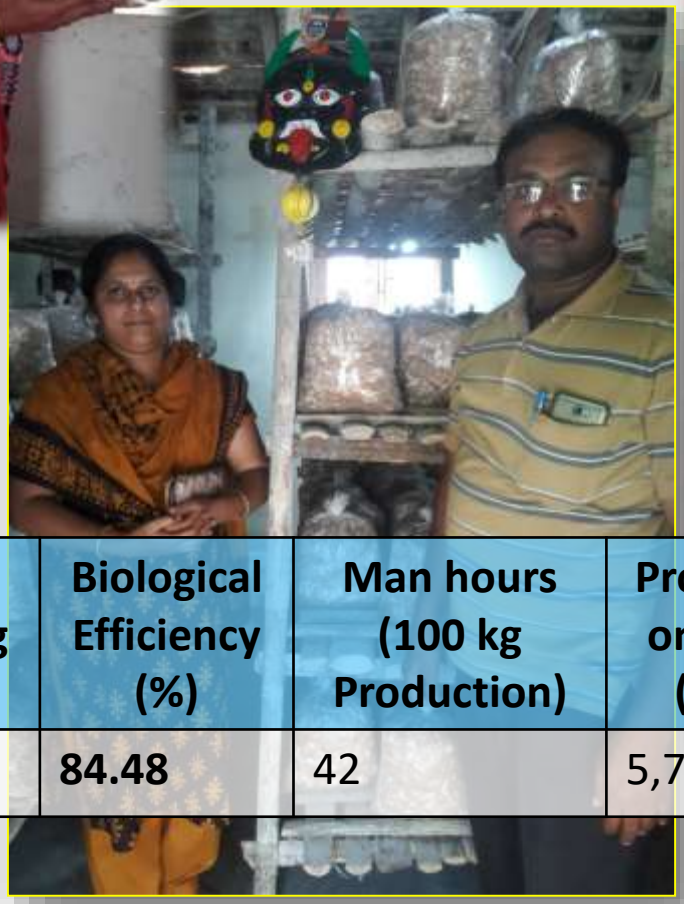
Conclusion

- Farmers' Feedback: Yield of KMR-340 variety was 22.92 % more compared to check.
- Value added products prepared from KMR-340 white ragi variety fetched more value (20-25%) compared to brown ragi.
- Best suited for bakery products preparation.

10-EDP.Oyster mushroom production, Value addition and marketing

Enterprise	Mushroom production
Thrust Area	Value addition
Problems	Lack of knowledge on mushroom production, value addition and health benefits of mushroom
Technology to be demonstrated	Oyster mushroom production and value addition
Source	IIHR, Bangalore
Cluster	Tumakuru and Madugiri taluk
SMS	Home Science
Support provided	Spawn, PP covers and packing covers

Results 2018-19



Yield (gms)/Kg bag	Biological Efficiency (%)	Man hours (100 kg Production)	Production cost (Rs.)	Total Income (Rs.)	Net income (Rs.)	BC Ratio
280	**84.48**	42	5,765	15,000	9,235	2.60

Conclusion

- Mushroom production can be taken as an enterprenual and income generation activity.
- Different types of value added products can be prepared for more income.

11. Demonstration of Fodder Sorghum CoFS 29

Crop	Fodder Sorghum CoFS 29
Thrust Area	Improved Fodder Varieties
District Area	412 ha
Problems	Non availability of improved fodder varieties
Technology Demonstrated	CoFS 29 + AMC
Source	TANUVAS, Namakkal
Parameters studied	Yield parameters and Farmer Acceptability
Cluster Villages	Hirehalli, Chikkahalli and Tanganahalli
Season	Rabi 2018
SMS	Agril. Extension

Critical inputs provided	Area (ha)	No. of Farmers
CoFS 29 Seeds – 1 kg + AMC 2 kg	2	5

Results 2018-19

Particulars	Avg. Yield (ton/ha)	Increase in yield (%)	Gross Cost	Gross Returns	Net Returns (Rs. /ha)	B.C Ratio
Demonstration	105.4	27.83	20,076	42,160	9,461	2.1
Check	82.45		18,322	32,980	5,528	1.8

Fodder : Rs. 400/ton

Conclusion

- Farmers' Feedback: Increased milk yield was observed to the tune of 0.5 - 1.0 lits.

1.EDP on Tamarind Value addition, Branding and market linkage

Enterprise	Tamarind Value added products
Thrust Area	Processing and Value addition
Problems	Lack of Awareness on Processing , Value addition
Technology to be demonstrated	Processing, Value addition and marketing of Tamarind products like Cleaned tamarind balls, lollipop, thokku etc.,
Source	TNAU, Coimbatore
Cluster	Badavanahalli and Muddayyanapalya
SMS	Home science
Support provided	Sealing machine-1, Weighing Scale-1, Packing and labelling materials

Results 2018-19

Sl No	Products	Total quantity (kg)	Rate (Rs./kg or piece)	Production cost (Rs.)	Total Income (Rs.)	Net income (Rs.)	BC Ratio
1	Raw Tamarind	100	60	3,500	6,000	2,500	1.71
2	Cleaned Tamarind	100	120	6,000	12,000	6,000	2.00
3	Thokku	100	450	19,630	45,000	25,370	2.29
4	Lollipop (No)	48,000	5	74,612	2,40,000	1,65,388	3.21

Conclusion

- Preparations of Value added products (Cleaned tamarind balls, Lollipop and Thokku) from Tamarind resulted in an increased profits (BC ratio from 2.00 to 3.21).
- Generated employment and found to be the best activity for income generation and helpful for effective utilization of leisure time as shared by SHG members.

CFLDs under NFSM & NMOOP

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

Crop	Pigeon pea
Thrust area	HYV
Variety	BRG-5
Area & Yield of District	25820 ha,7-9 qt/ha
Problem	Use of local low yielding varieties.
Technology to be demonstrated	Demonstration of BRG-5 Variety, Neem cake application, use of foliar micronutrient, use of neem soap, Use of sticky traps
Source of Technology	UAS, Bengaluru
Parameters to be taken	Yield and Economics
Season	Kharif, 2018-19
Area and No. of Demonstrations	30 ha and 75 Nos.
SMS	Plant Protection

Results of 2018-19

Details of technology	Height of the Plant in cms	Avg. No. of pods per plant	Avg. No. of seeds per pod	Test weight In gms	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	172.2	187.6	5.46	13.2	7.44	24.50	33875	59520	25645	1.75
Control	154.6	173.4	4.86	11.4	6.99		34985	47920	12935	1.36

Conclusion:

Redgram: Rs 8000/qt

BRG-5 was recorded higher yield up to 48.33% over the check variety.

2. Enhancement of Groundnut yield (K-6) under NMOOP

Crop	Groundnut
Thrust area	HYV
Variety	K-6
Area & Yield of District	1.20 lakh ha, 7-8 qt/ha,
Problem	Use of local low yielding varieties.
Technology to be demonstrated	Demonstration of K-6 Variety
Source of Technology	UAS, Bengaluru
Parameters to be taken	Yield and Economics
Season	Kharif, 2018-19
Area and No. of Demonstrations	50ha and 125 No,s
SMS	Plant Protection

Results of 2017-18

Details of technology	Stem rot incidence in %	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	5.77	6.88	34.00	13,494	34,400	20,906	2.54
Control	16.66	4.52		11,296	22,600	11,304	2.01

Conclusion:

Groundnut price: Rs 5000/qt

K-6 was found to have better yield than TMV-2 (control)

Training of farmers and Extension Personnel

Training programmes conducted

Category	Subjects	Number	No. of participants
Farmers and Farm women	Crop Production	03	89
	Women empowerment	02	65
	Production technologies in Horticulture	06	206
	Plant protection	05	167
	Soil and nutrient management	05	217
	Value Addition	03	58
	Animal Husbandry	01	75
	Mushroom Cultivation	05	123
Rural Youth	Dry land Horticulture	02	50
	Propagation techniques in Fruits Crops	02	44
	Beekeeping	05	98
	Soil Testing Method/Importance	01	34
Extension functionaries	Nutritional Garden / Production Technique /FPO	11	1020
Sponsored Training Programmes	Importance of Storage Techniques in Agriculture Produce	01	44
	Friends of Coconut Tree	01	20
	Mango Growers	01	20
	Land resource inventory	02	62
	Total	**46**	**2392**

On Campus Training Progammes

Farm, Farm Women and Youth Training Programmes

ON CAMPUS TRAINING PROGRAMMES

Processing and Value addition to minor millets

Importance of Health and Nutrition for adolescent girls

Mushroom Training Programme

Training on Permaculture, scientific storage of grains

Off Campus Training Progammes

Extension Activities for Awareness Creation

Extension Activities

Activities	Activities (No.)	Participation		
		Farmers (No.)	Extension Personnel (No.)	TOTAL
Advisory Services	47	2482	228	2710
Diagnostic visits	62	278	30	308
Field Day	4	985	85	1070
Group discussions	0	0	0	0
Kisan Ghosthi	1	500	14	514
Film Show	13	423	27	450
Self -help groups	1	10	0	10
KisanMela	1	29000	1310	30310
Exhibition	1	40	0	40
Scientists' visit to farmers field	47	336	10	346
Plant/animal health camps	0	0	0	0

Extension Activities

Activities	Activities (No.)	Participation		
		Farmers (No.)	Extension Personnel (No.)	TOTAL
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	0	0	0	0
Method Demonstrations	2	84	0	84
Celebration of important days	5	426	51	477
Special day celebration	0	0	0	0
Exposure visits	0	0	0	0
Others (pl.specify)	0	0	0	0
Total	**184**	**34564**	**1755**	**36319**

Field Days

"Use of Arka Microbial Consortium (AMC) and Actino Plus (ACT) in Pomegranate for Soil and Plant Health Management" Gonihalli, Sira on 2nd June 2018.

“Arka Kyathi variety of Chilli”, 1st Dec 2018, Badavanahalli, Madhugiri

Soil Day (Dec 5th) and Farmers Day (Dec 23rd)

Diagnostic Visits

Krishi Abhyiana

Farmer Visitor form Kerala and Tamil Nadu

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FET – 108th FOCARS -NAARM

भाकृअनुप - राष्ट्रीय कृषि अनुसंधान प्रबंध अकादमी
राजेन्द्रनगर, हैदराबाद-५००० ३०, तेलंगाणा, भारत
ICAR-National Academy of Agricultural Research Management
(ISO 9001:2008 Certified)
Rajendranagar, Hyderabad-500030, Telangana, India
https://naarm.org.in

Dr S.K Soam
Joint Director I/C

DO.No.108 FOCARS/FET Posting/2018
11 July 2018

Sub: Field Experience Training of ARS Scientist Probationers of 108 FOCARS from NAARM – reg.

Dear Sir,

We kindly request you to host the Field Experience Training (FET) for 108 FOCARS ARS Scientist Probationers in the **Krishi Vigyan Kendra, Tumkur, Karnataka.**

We are herewith deputing a multi-disciplinary team of following ARS Scientist Probationers for undergoing FET in the above mentioned KVK for 21 days.

S No	Name	Gender	Discipline
01	Shiva Kumara K T	Male	Agricultural Entomology
02	Ramyashree Devi G S	Female	Plant Pathology
03	Lokesh Kumar B M	Male	Genetics & Plant Breeding
04	Anindita Paul	Female	Agricultural Chemicals
05	Deepak Vishwanath Pawar	Male	Agricultural Biotechnology
06	Bhargavi H A	Female	Genetics & Plant Breeding

The Probationers shall report at the FET Center on **21st August, 2018 (FN)**, and after completing Field Experience Training (FET) for 21 days, they shall be relieved on **10th September, 2018 (AN)** from your Centre/KVK. One of our faculty members might be visiting the FET centre during the above period for onsite monitoring.

The KVK is kindly requested to identify two scientists / faculty to act as FET local facilitator to facilitate activities of scientist-trainees and enabling them to complete their training. ~~We will send the copy of the FET guidelines shortly~~, for your kind reference. Enclosed the FET Guidelines

With kind regards,

Yours sincerely,

(S.K. Soam)

To,
Dr. M.R. Dinesh
Director
ICAR-Indian Institute of Horticultural Research (IIHR)
Hessaraghatta Lake Post, Bengaluru 560 089
Ph: 080-28466471, 28466373; E-mail: director@iihr.res.in

Swachch Bharat

Swachchata Pakawada

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VCs with Prime Minister

भाकृअनुप
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PM Kissan Sanman Event

24th Feb, 2019

Other Extension Activities

Sl. No.	Nature of literature/publications/ Activities	No. of Copies/Programmes
1	Electronic Media	5
2	Extension Literature	4
3	News Letter	4
4	Newspaper coverage	18
5	Technical Articles	3
6	Technical Bulletins	1
7	Technical Reports	6
8	Radio Talks	1
9	TV Talks	5
10	Animal health Camps (Number of animals treated)	0
11	Book Chapters	3
	Total	**50**

Book Chapters

- Prasanth J.M ,Radha R Banakar, and N Loganandhan, 2018, Dried flower techniques and Value addition, Published in Fruit and Flowers show, Department of Horticulture Tumkur Issue 21-24.
- N Loganandhan, Radha R Banakar, and, Prasanth J.M 2018,Nutrition Garden Published in Fruit and Flowers show Department of Horticulture Tumkur
- Radha R Banakar**,** Prasanth J.M and N Loganandhan, 2018, Jack fruit Value addition, published in Fruit and Flowers show Department of Horticulture Tumkur

Research Abstracts / Proceedings

- Hanumanthe gowda, B.. Ramesh, P.R., Jagadish, K.N., Prashanth J. M. and N. Loganandhan, 2018, Studies on IPM technology demonstration for sustainable and safe mango production in Tumakuru district of Karnataka Presented at International Conference on “Role of Soil and Plant Health in Achieving Sustainable Development Goals” held at Bangkok, Thailand on 21-25, Nov, 2018

Technical Bulletins / Manuals

- Hanumanthe gowda. B, Nandisha, P, Chandrasekhar, C. 2019, Handbook on farmers friendly schemes of GOI- An Technical Bulletin (TB.No.01/2019) in Kannada Published by Director , IIHR.Pp:68

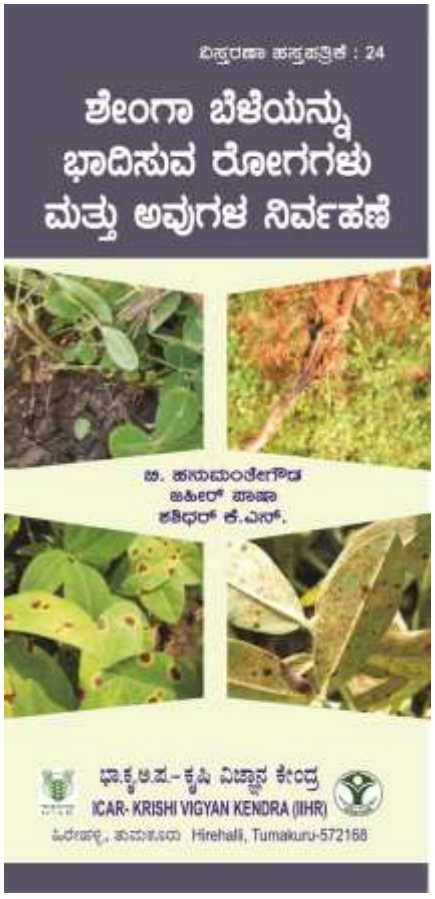
Popular Articles

- Hanumanthe gowda. B, Ramesh,P.R and Loganandhan. N, 2018 In Kannada: Use of Organic formulations in agriculture. Published in *Krushi Vignana*, 42(1):5-9.

- Hanumanthe gowda, B., Ramesh, P.R., and Loganandhan, Integrated fruit fly management in Mango Published in Prajapragathi Daily news paper on 28-03-2019.

- Radha R.Banakar, Dr. Loganandan.N and Dr.Sangama, (2018). Dried flower techniques and value addition.In:Siri samruddi Kannada Quaterly magzine.BAIF, Tiptur , Volume 1, Issue 3, PP- 21-24

Folders

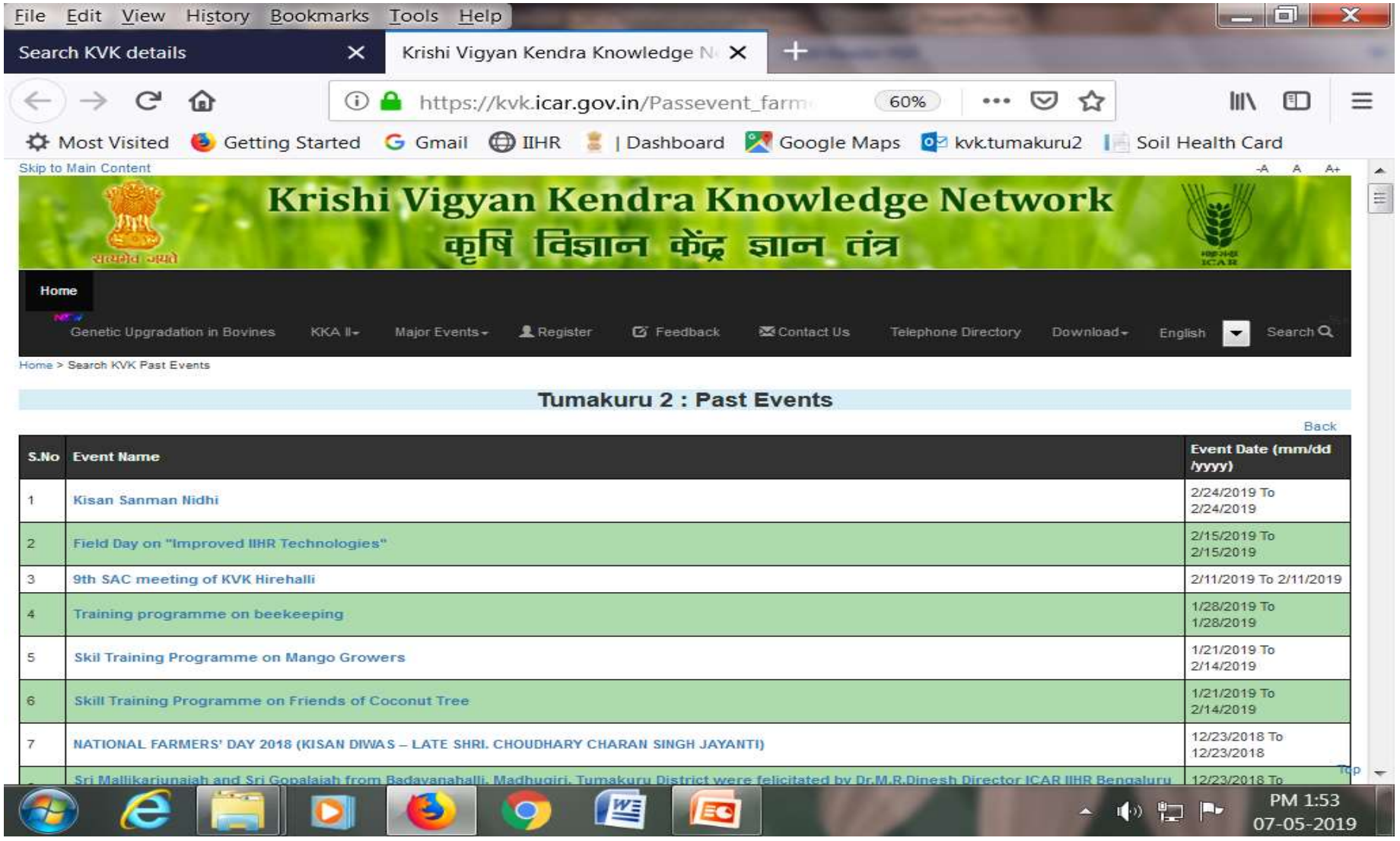


Folders

- Hanumanthe gowda. B, Ramesh.P.R., and Loganandhan. N, 2019 Improved cultivation practices in Groundnut . Folder No.23 of Krishi Viganana Kendra, Hirehalli *Published by Director, ICAR-IIHR*. Pp.06
- Hanumanthe gowda. B, Jahir Pasha and Jagadish.K.. N, 2019 IPM in Groundnut . Folder No.24 of Krishi Viganana Kendra, Hirehalli *Published by Director, ICAR-IIHR*. 06
- Hanumanthe gowda. B, Jahir Pasha and Shashidhar..K.. N, 2019 Groundnut diseases and their management. Folder No.25 of Krishi Viganana Kendra, Hirehalli *Published by Director, ICAR-IIHR*. 06
- Hanumanthe gowda. B, Prashanth.J.M and Radha R Banakar 2019, Improved cultivation practices in Castor. Folder No.26 of Krishi Viganana Kendra, Hirehalli *Published by Director, ICAR-IIHR*. 06

Radio/TV programmes

KVK-Network Portal



52 events covered so far

Kisan Mobile Advisory Services

Topics	Numbers
Crops	43
Awareness, Weather	26
Marketing	11
Total SMS sent	80
No. of farmers covered	21650

News paper Coverage

ಯೋಜನೆ ಅನುಷ್ಠಾನದಲ್ಲಿ ಜಿಲ್ಲೆ ರಾಜ್ಯಕ್ಕೇ ಮಾದರಿ

ರಾಸಾಯನಿಕ ಗೊಬ್ಬರ ಬಳಕೆ:ಸೊರಗು ರೋಗ

ಅಡಿಕೆ ತೆಂಗು ಕುರಿತು ತರಬೇತಿ

ಹುಳು ಬಾಧೆ ನಿಯಂತ್ರಣಕ್ಕೆ ಮುಂದಾಗಿ

ಉತ್ತಮ ಆರೋಗ್ಯಕ್ಕೆ ಸಮತೋಲನ ಆಹಾರ ಅಗತ್ಯ

ಭಾಕೃಅನುಪ
ICAR

ಅಡಕೆ ಹಾಳೆ ಪಶುಗಳಿಗೆ ಉತ್ತಮ ಆಹಾರ: ವಿಜ್ಞಾನಿ

ತುಮಕೂರು ಗ್ರಾಮಾಂತರದ ಹಿರೇಹಳ್ಳಿಯ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರದಲ್ಲಿ ಹಮ್ಮಿಕೊಂಡಿದ್ದ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ 2019ನೇ ವರ್ಷದ ಕ್ಯಾಲೆಂಡರ್‌ನ್ನು ಬಿಡುಗಡೆ ಮಾಡಲಾಯಿತು.

ವಾಣಿಜ್ಯ ಹೂವಿನ ಬೆಳೆ ಯಶಸ್ವಿ: ರೈತರಲ್ಲಿ ವಿಶ್ವಾಸ

ನಂ. 1 ಕನ್ನಡ ದಿನಪತ್ರಿಕೆ

ವಿಜಯವಾಣಿ

ದಿನದ ಚಿತ್ರ

ಬಿತ್ತನೆ ರಾಗಿ ವಿತರಣೆ

ತೋವಿನಕೆರೆ ಹಳ್ಳಿಸಿರಿ ಸಂಘ ಮಹಿಳಾ ಸದಸ್ಯರಿಗೆ ಬೆಳೆ ರಾಗಿ ಬಿತ್ತನೆ ಬೀಜವನ್ನು ಹಿರೇಹಳ್ಳಿ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರದ ವಿಜ್ಞಾನಿ ರಾಧಾ ಇತ್ತೀಚೆಗೆ ವಿತರಿಸಿದರು.

ಗೊಬ್ಬರ ಮಾರಾಟಗಾರರು-ರೈತರಲ್ಲಿ ಬಾಂಧವ್ಯವಿರಲಿ

ಹಲಸಿನ ಹಪ್ಪಳ, ಉಪ್ಪಿನಕಾಯಿ, ಹಲ್ವ, ಮಂಚೂರಿ, ಪಲಾವ್ ಸವಿದ ಜನರು

ತೋವಿನಕೆರೆಯಲ್ಲಿ ಹಲಸಿನ ಖಾದ್ಯಗಳ ಸವಿಯೂಟ

भाकृअनुप ICAR

ICAR-IIHR

ಕರ್ನಾಟಕ ದರ್ಶನ

'ಹಳ್ಳಿಸಿರಿ'ಯ ನಾರಿ ಶಕ್ತಿ!

ರೈತರು ಸಾವಯವ ಗೊಬ್ಬರ ಬಳಸಲಿ: ಶಾಸಕ

ತುಮಕೂರಿನಲ್ಲಿ ಭಾನುವಾರ ಏರ್ಪಡಿಸಿದ್ದ ಸಾವಯವ ಸಂತೆ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಶಾಸಕ ಜಿ.ಬಿ ಜ್ಯೋತಿಗಣೇಶ್, ಸ್ವದೇಶಿ ಜಾಗರಣ ಮಂಚ್‌ನ ಕರ್ನಾಟಕ ಮತ್ತು ತೆಲಂಗಾಣ ರಾಜ್ಯದ ಸಂಘಟನಾ ಕಾರ್ಯದರ್ಶಿ ಜಗದೀಶ್ ಮತ್ತಿತರರು ಇದ್ದರು.

■ ವಿಕ ಸುದ್ದಿಲೋಕ ತುಮಕೂರು

ರೈತರು ರಾಸಾಯನಿಕ ಗೊಬ್ಬರ ಬಳಸಿ ಬೆಳೆ ಬೆಳೆಯುವುದನ್ನು ಬಿಟ್ಟು ಸಾವಯವ ಗೊಬ್ಬರ ಉಪಯೋಗಿಸಿ ಆಹಾರ ಪದಾರ್ಥಗಳನ್ನು ಬೆಳೆಯುವಂತೆ ಶಾಸಕ ಜಿ.ಬಿ.ಜ್ಯೋತಿಗಣೇಶ್ ಹೇಳಿದರು.

ನಗರದ ಕುವೆಂಪುನಗರ ರಸ್ತೆಯಲ್ಲಿ ಭಾನುವಾರ ಸ್ವದೇಶಿ ಜಾಗರಣ ಮಂಚ್-ತುಮಕೂರು ವತಿಯಿಂದ ಏರ್ಪಡಿಸಿದ್ದ ಸಾವಯವ ಸಂತೆ ಕಾರ್ಯಕ್ರಮ ಉದ್ಘಾಟಿಸಿ ಮಾತನಾಡಿದ ಅವರು, ರೈತರು ಹೆಚ್ಚು ಇಳುವರಿಗಾಗಿ ರಾಸಾಯನಿಕ ಗೊಬ್ಬರವನ್ನು ಬಳಕೆ ಮಾಡಿ ಆಹಾರ ಪದಾರ್ಥಗಳನ್ನು ಬೆಳೆಯುತ್ತಿದ್ದಾರೆ. ಇದು ಮಾನವನ ಆರೋಗ್ಯಕ್ಕೆ ಉತ್ತಮವಲ್ಲ. ಹಾಗಾಗಿ ರೈತರು ಸಾವಯವ ಗೊಬ್ಬರವನ್ನು ಬಳಕೆ ಮಾಡಿ ಆಹಾರ ಪದಾರ್ಥಗಳನ್ನು ಬೆಳೆಯುವಂತಾಗಬೇಕು ಎಂದರು.

ರಾಸಾಯನಿಕ ಗೊಬ್ಬರದಿಂದ ಬೆಳೆದ ಆಹಾರವನ್ನು ಸೇವನೆ ಮಾಡುವುದರಿಂದ ಮಾನವನ ದೇಹದಲ್ಲಿ ಅನಾರೋಗ್ಯ ಕಾಣಿಸಿಕೊಳ್ಳುವುದರೊಂದಿಗೆ ಮನುಷ್ಯನ ದೇಹದಲ್ಲಿ ವಿಷಕಾರಿ ವಸ್ತುಗಳು ಸೇರ್ಪಡೆಯಾಗುತ್ತವೆ. ಮಕ್ಕಳ ಬೆಳವಣಿಗೆಯೂ ಸರಿಯಾಗಿ ಆಗುವುದಿಲ್ಲ. ಮನುಷ್ಯ ಹೆಚ್ಚು ದಿನಗಳ ಕಾಲ ಬದುಕಬೇಕಾದರೆ ಸಾವಯವ ಗೊಬ್ಬರದಿಂದ ಬೆಳೆದ ಆಹಾರ ಪದಾರ್ಥಗಳನ್ನು ಸೇವನೆ ಮಾಡಬೇಕು. ರೈತರು ಆದಷ್ಟು ಸಾವಯವ ಹಾಗೂ ಪಶುಗಳ ಗೊಬ್ಬರದಿಂದ ಆಹಾರ ಪದಾರ್ಥಗಳನ್ನು ಬೆಳೆಯುವಂತೆ ಸಲಹೆ ನೀಡಿದರು.

ಸ್ವದೇಶಿ ಜಾಗರಣ ಮಂಚ್‌ನ ಕರ್ನಾಟಕ ಮತ್ತು ತೆಲಂಗಾಣ ರಾಜ್ಯದ ಸಂಘಟನಾ ಕಾರ್ಯದರ್ಶಿ ಜಗದೀಶ್ ಮಾತನಾಡಿ, ರೈತರು ರಾಸಾಯನಿಕ ಕೃಷಿಗೆ ಮಾರುಹೋಗಿರುವುದು ಸಹ ಇಂದು ಅವರ ಆರ್ಥಿಕ ಪರಿಸ್ಥಿತಿ ಕುಸಿಯಲು ಕಾರಣವಾಗಿದೆ. ಈ ಬಗ್ಗೆ ಸರಕಾರಗಳು ರೈತರಿಗೆ ಅರಿವು ಮೂಡಿಸುವ ಕೆಲಸ ಮಾಡಬೇಕಾಗಿದೆ ಎಂದರು.

ಪ್ರಸ್ತುತ ದಿನಗಳಲ್ಲಿ ರೈತರಿಗೆ ತಾವು ಬೆಳೆದ ಬೆಳೆಗಳಿಗೆ ಯೋಗ್ಯ ಬೆಲೆ ಸಿಗುತ್ತಿಲ್ಲ. ರೈತರೇ ನೇರವಾಗಿ ಮಾರುಕಟ್ಟೆಯಲ್ಲಿ ಮಾರಾಟ ಮಾಡುವಂತಾಗಬೇಕು. ಈ ನಿಟ್ಟಿನಲ್ಲಿ ಸಾವಯವ ಸಂತೆ ಪ್ರಾರಂಭಿಸಲಾಗಿದೆ ಎಂದರು. ಈಗಾಗಲೇ ಹಾಸನ, ಕಡೂರು, ಬೆಂಗಳೂರು ಹಾಗೂ ತಿಪಟೂರು ಸೇರಿದಂತೆ ರಾಜ್ಯದ ಹಲವು ಜಿಲ್ಲೆಗಳಲ್ಲಿ 5 ದಿನಗಳ ಕಾಲ ಸಾವಯವ ಮೇಳ ನಡೆಸಲಾಗಿದೆ. ಅದೇ ರೀತಿಯ ತುಮಕೂರಿನ ಸುತ್ತಮುತ್ತಲ ರೈತರಿಗೆ ಅನುಕೂಲವಾಗಲಿ ಎಂಬ ದೃಷ್ಟಿಯಿಂದ ಇಲ್ಲೂ ಸಹ ನಡೆಸಲಾಗುತ್ತಿದೆ ಎಂದರು.

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಹಿರೇಹಳ್ಳಿಯ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕ ಡಾ. ಲೋಗಾನಂದ್, ಸತ್ಯಾನಂದ, ರಾಮಮೂರ್ತಿ, ಮತ್ತಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು.

ಹೊಸ ತಾಂತ್ರಿಕತೆ ಅಳವಡಿಸಿಕೊಳ್ಳಿ

ತುಮಕೂರು

ಮಣ್ಣಿನ ಸಂರಕ್ಷಣೆಯಿಂದ ಹೆಚ್ಚು ಇಳುವರಿ

2 ಸಂಯುಕ್ತ ಕರ್ನಾಟಕ

ತುಮಕೂರು

ಕಂಪ್ಯೂಟರ್‌ನಿಂದ ಅಕ್ಕಿ ತಯಾರಿಕೆ ಅಸಾಧ್ಯ

HRD & Awards

Human Resource Development – 2018-19

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.N.Loganandhan	Principal Scientist &Head	Study tour to KVKs of Tamil Nadu	ATMA & TN KVKs	April 8-13,2018
Shri.K.N.Jagadish	SMS (Extn.)			
Dr.B.Hanumanthe Gowda	SMS (PP)			
Sri.Prasanth JM	SMS Horticulture	Master Training Programme on Friends of Coconut (FOCT)	UAS Bengaluru	24 to 26th September, 2018.
Sri.P R Ramesh	SMS Soil Science	Master Training Programme on Mango Growers	UAS Bengaluru	24 to 26th September, 2018.
		Workshop on Water Management	IISC, Bengaluru	16th March 2019

ATMA Exposure visit to Tamil Nadu

Awards & Recognition

भाकृअनुप
ICAR

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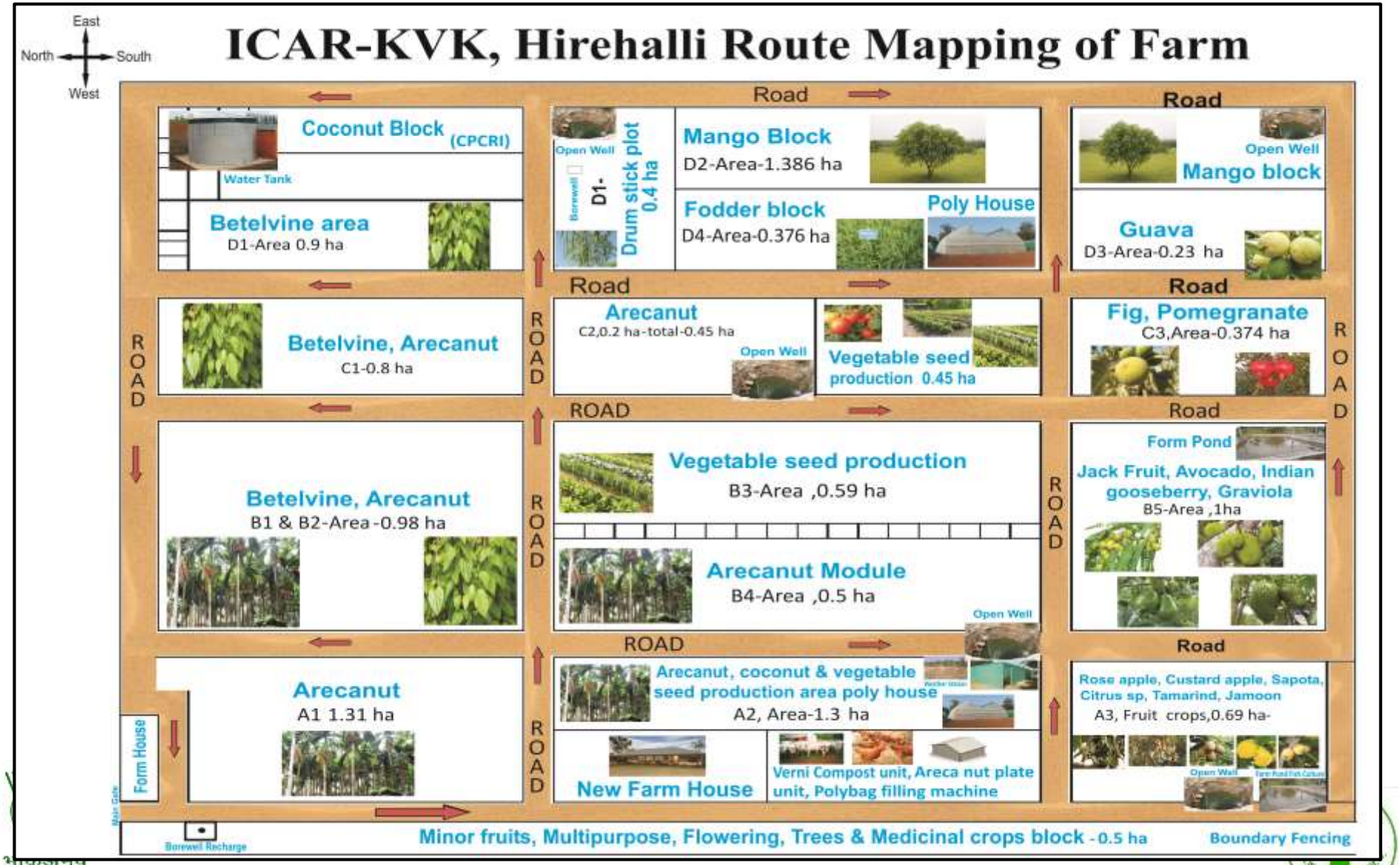
Production of Seeds, Planting materials and other Products

KVK Farm Map

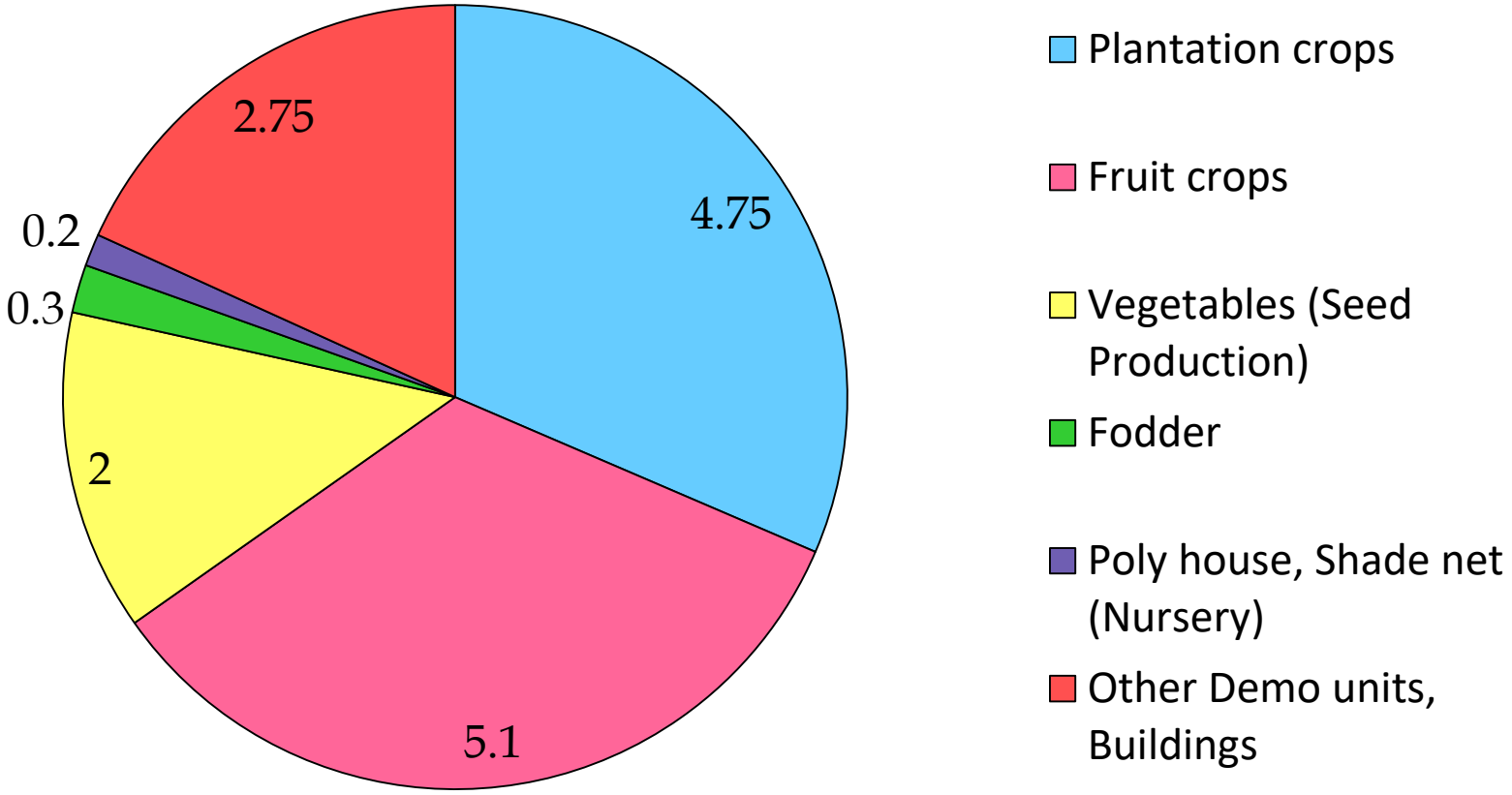

East
North
South
West
ICAR-KVK, Hirehalli Route Mapping of Farm
Road
Coconut Block (CPCRI)
Water Tank
Betelvine area
D1-Area 0.9 ha
Open Well
Borewell
D1-
Drum stick plot 0.4 ha
Mango Block
D2-Area-1.386 ha
Fodder block
D4-Area-0.376 ha
Poly House
Open Well
Mango block
Guava
D3-Area-0.23 ha
ROAD
Betelvine, Arecanut
C1-0.8 ha
Arecanut
C2,0.2 ha-total-0.45 ha
Open Well
Vegetable seed production 0.45 ha
Fig, Pomegranate
C3,Area-0.374 ha
Betelvine, Arecanut
B1 & B2-Area-0.98 ha
Vegetable seed production
B3-Area ,0.59 ha
Arecanut Module
B4-Area ,0.5 ha
Open Well
Form Pond
Jack Fruit, Avocado, Indian gooseberry, Graviola
B5-Area ,1ha
Arecanut
A1 1.31 ha
Form House
Arecanut, coconut & vegetable seed production area poly house
A2, Area-1.3 ha
New Farm House
Verni Compost unit, Areca nut plate unit, Polybag filling machine
Rose apple, Custard apple, Sapota, Citrus sp, Tamarind, Jamoon
A3, Fruit crops,0.69 ha-
Open Well
Borewell Recharge
Minor fruits, Multipurpose, Flowering, Trees & Medicinal crops block - 0.5 ha
Boundary Fencing

Total Area: 15.1 ha
Cultivable Area: 12.15 ha

No	Details	Area (Ha)
1	Arecanut	3.75
2	Coconut	1
3	Mango	2
4	Custard Apple	0.1
5	Sapota	0.2
6	Citrus	0.3
7	Tamarind	0.2
8	Jamoon	0.1
9	Amla	1.5

No	Details	Area (Ha)
10	Pomegranate	0.2
11	Guava	0.3
12	Vegetables (Seed Production)	2.0
13	Fodder	0.3
14	Minor fruits	0.2
15	Poly house, Shade net (Nursery)	0.2
16	Other Demo units, Buildings	2.75

KVK Farm – Diversification (Ha)



Vegetable Seed Production

Arka Kalyan – Onion

Arka Prasan – Ridge Gourd

Arka Shirish –Brinjal

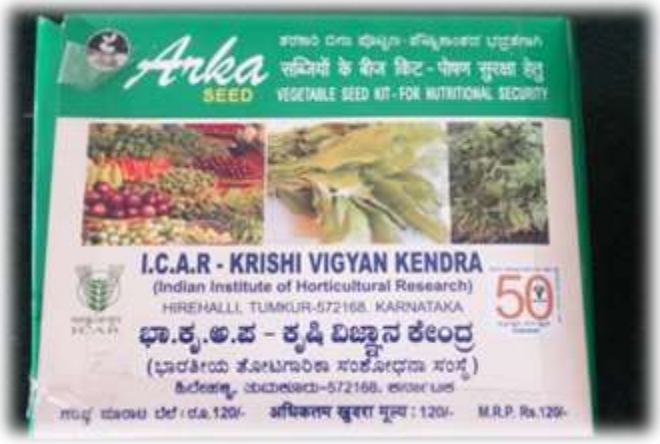
Arka Isha – Coriander

Production and Sale of Seeds (SMS-Horti)

Seeds	Quantity (q)	Total Value (Rs.)	Farmers benefitted
Amaranthus	0.0700	3500.00	24
Bottle Guard	0.0165	1650.00	07
Brinjal	0.0143	2574.00	14
Chilli	0.0175	3150.00	35
French Bean	2.3135	57837.50	29
Okra	0.0645	32275.00	03
Onion	7.3670	884041.20	218
Palak	2.0942	83770.00	2014
Pumpkin	0.1340	13400.00	125
Radish	0.0260	1300.00	12
Ridge Guard	0.0540	5400.00	13
Cow Pea	0.1100	2750.00	06
Tomato	0.0085	1700.00	02
Arecanut Seed – Nos.	45922	229610.00	48
Arecanut Seed (Degraded)- Nos.	2112	42240.00	03

Production and Sale of Seeds (SMS-Horti)

Seeds	Quantity (q)	Total Value (Rs.)	Farmers benefitted
Fodder Cowpea	0.1995	4987.50	22
Fodder Sorghum	0.4200	21000.00	11
Ragi	1.3900	5560.00	53
Little Millet	0.0300	240.00	06
Browntop Millet	0.6900	5520.00	03
Mustard	4.4580	35664.00	224
Redgram	4.4950	67425.00	92
Sunhemp	0.0240	192.00	02
Vegetables seed kit (Nos.)	2406	360900.00	1852
Total		**18,66,686.2**	**4,818**




DASHEHARI


MANGO
1. SINDHU
2. RATNAGIRI
ALPHONSO
3. KESAR
4. DASHEHARI
5. ARKA ANMOL
6. MALLIKA
7. ALPHONSO
8. LANGRA
9. NEELKIRAN
10. AMRAPALI
11. BENESHAN
12. HIMAYUDDIN


LANGRA


MALLIKA

GUAVA

1. ALLAHABAD SAFEDA
2. LUCKNOW - 49
3. MRIDULA
4. PINK FLESH

SAPOTA

1. DSH - II
2. PKM - 4
3. KALIPATTI
4. CRICKET BALL

भाकृअनुप
ICAR

ICAR-IIHR

CITRUS CROPS

1. KINNOW MANDARIN
2. PUMELO
3. ROUGH LEMON
4. SATHGUDI
5. NAGPUR ORANGE
6. COORG MANDARIN
7. SEEDLESS LEMON
8. KAGAZI LIME

भाकृअनुप
ICAR

ICAR-IIHR

TAMARIND

1. PKM - 1
2. SWEET TAMARIND
3. VANTOOR
4. ORIGUM

JAMOON

1. KRISHNAGIRI
2. GOKAK
3. AURANGABAD


AONLA
1. NA - 10
2. CHAKAIYA
3. NA - 5 (KANCHAN)
4. NA - 7
5. NA - 4 (KRISHNA)
6. LOCAL

भाकृअनुप
ICAR

ICAR-IIHR

Multipurpose Tree based Demonstration Plot

Production and sale of planting materials (SMS-Horti)

Planting materials	Quantity (No)	Amount (Rs.)	Farmers benefitted
Mango	1544	108080.00	39
Pomello	4	80.00	2
Pomegranate	66	2640.00	8
Rose Apple	121	2420.00	60
Papaya	3852	46224.00	12
Tamarind	666	46620.00	52
Amla	53	2120.00	12
Guava	3310	231700.00	62
Jamun	13	260.00	8
Lime	467	18680.00	67
Total 1	**10096**	**4,58,824.00**	**322**

Production and sale of planting materials (SMS-Horti)

Planting materials	Quantity (No)	Amount (Rs.)	Farmers benefitted
Betelvine Cuttings	47	470.00	12
Coconut	2805	224400.00	42
Arecanut	24310	729300.00	38
Arecanut Sprouts	17860	89300.00	28
Napier Grass Cuttings	2760	2760.00	13
Drumstick	2265	33975.00	22
Total 2	**50047**	**10,80,205.00**	**155**
Grand Total	**60,143**	**15,39,029.00**	**477**

Production and Sale of Fruits(2018-19) SMS (Horti)

Fruits	Qty (Kg)	Cost (Rs.)	Amount (Rs.)
Amla	3443.75	20	103290
Tamarind	2	10	20
Custard Apple	78	10	780
Mango	2142	20	42840
Lemon	23	15	345
Guava	78	10	780
Pumello	44	15	660
Sapota	234	10	2340
Laxman Pal	0.8	200	160
Coconut (No)	6669	5 and 10	33345
Tender Coconut (No)	13	15	195
Total			**1,84,755**

Custom Hiring Centre – Machineries rental (SMS-Horti)

Sl. No.	Particulars	Crop	Hours /Area used	No of farmers	Revenue generated (Rs.)
1	Seed cum Fertilizer drill	Ragi Redgram	8.75 Hrs	6	13125.00
2.	Multi crop harvester	Cereals and pulses	74.5 acres	48	37250.00

Seed cum Fertilizer drill

Ragi Harverster

Sale of Animal components 2018-19 (SMS-Horti)

Others	Qty	Cost (Rs.)	Amount (Rs.)
Bannur Sheep – 3 Nos. (Kg)	110	200	22000
Hallikar Bull (No)	1	30000	30000
Milk (lit)	1107	30	33210
Total			**85,210**

Technological Products from KVK

Technological Products from KVK

I. Bio-fertilizer

1. Arka Microbial Consortium (AMC) – Powder
2. AMC - Liquid

II. Micro-nutrient formulations

3. Banana Special
4. Mango Special
5. Vegetable Special
6. Citrus Special

III. Bio-pesticides/repellents/traps

7. Neem Soap
8. Pongamia Soap
9. Healer cum Sealer
10. Pheromone traps and Lures

IV. Home Science Products

11. Amla Squash
12. Amla Candies
13. Ragi Malt
14. Mushroom and Spawn

Production of KVK-Products

SMS	Bio Products	Name of the bio-product	Qty (q)	Value (Rs.)	No. of Farmers covered
SMS (Soil Sci)	Micro Nutrient Fertilizers	Banana Special	110.66	1659900	922
		Vegetable Special	114.03	1710450	1267
		Mango Special	71.76	1076400	897
		Citrus Special	19.74	296100	329
	Bio-Fertilizers	Arka Microbial consortium-Powder	29.23	409220	584
		Liquid (Lit)	3625.00	906250	604
	Pheromone Traps/Lures (No.)	Mango fruit fly traps	3687	73740	360
		Lures	7105	142100	296
	Total-1			**62,74,160**	**5259**

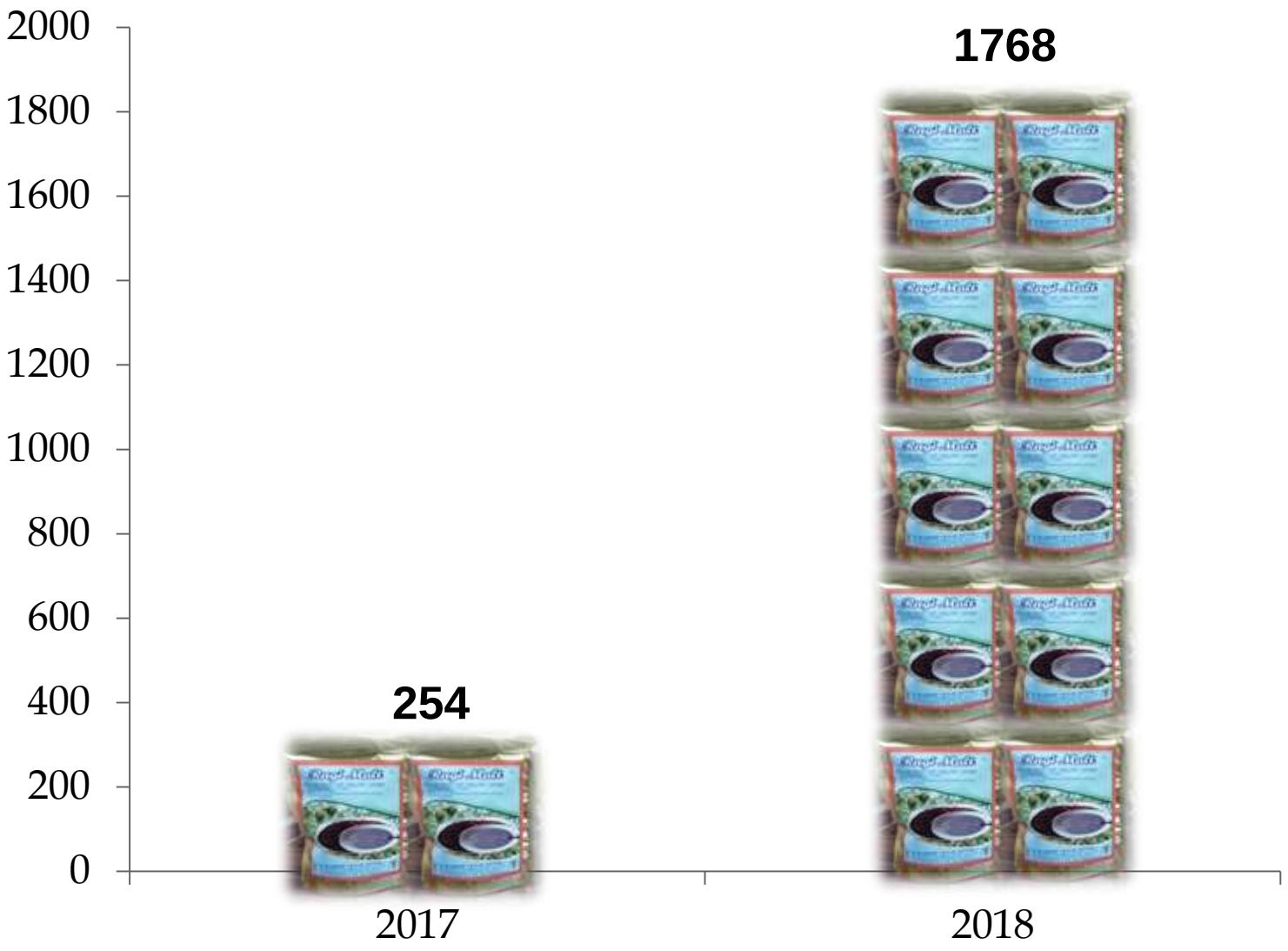
Production of KVK-Products

SMS	Bio Products	Name of the bio-product	Qty (q)	Value (Rs.)	No. of Farmers covered
SMS (PP)	Bio-pesticides	Neem Soap	37.46	973960	1110
		Pongamia Soap	12.23	256830	624
		Sealer cum Healer	4.68	70200	27
	Total-2			**13,00,990**	**1767**
SMS-(Home Sci)	Home Science Products (Kg.)	Amla Squash (Lit)	359	46670	60
		Amla Candy	130	39000	200
		Mushroom Spawn	688	51600	50
		Ragi Malt	442	88400	1200
	Total-3			**2,25,670**	**1510**
	Grand Total			**78,00,820**	**3277**

Mushroom Spawn (Kg)

Amla and Ragi Products

Ragi Malt (Nos of 250 g pack)



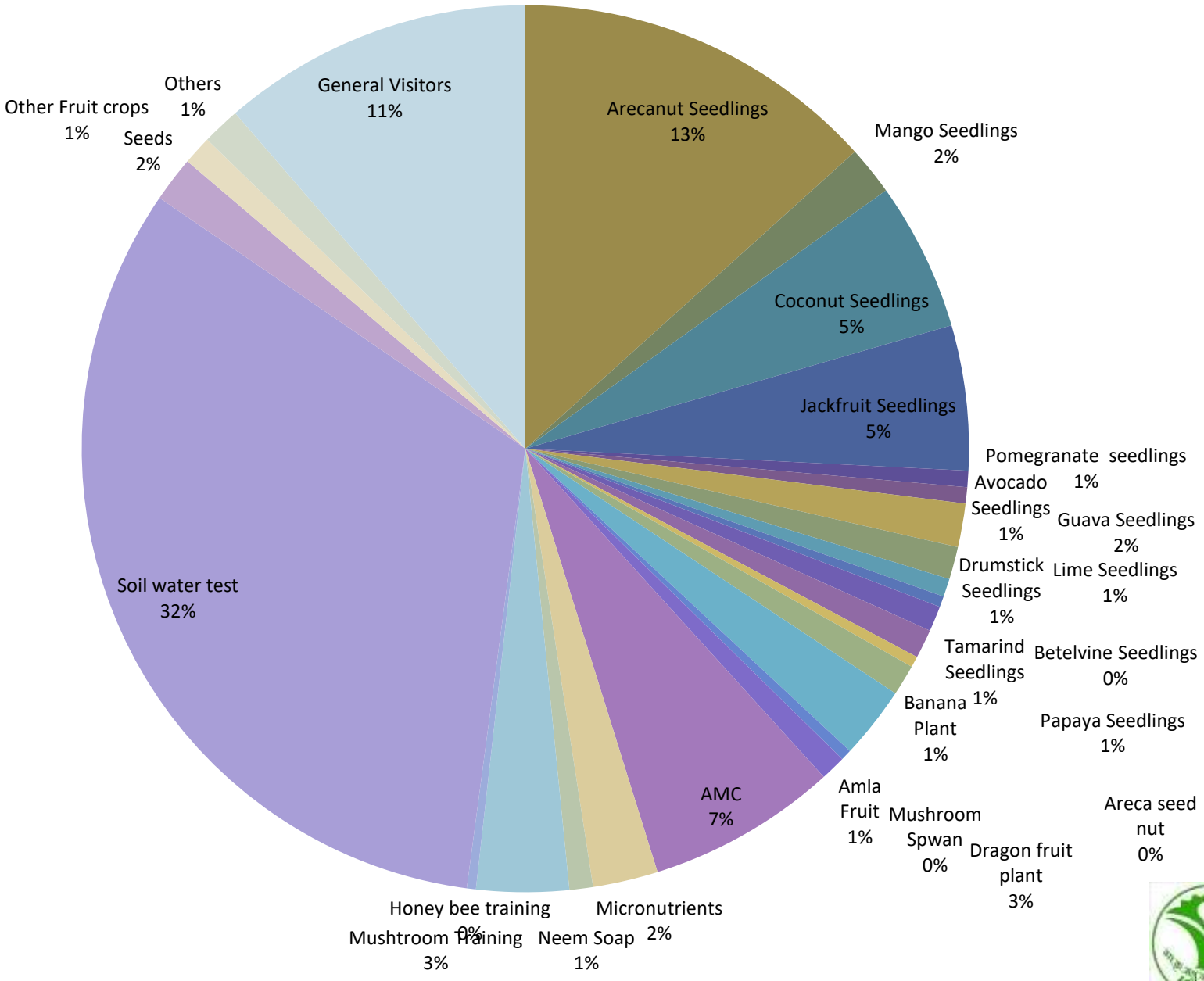
Soil, Water and Plant Analysis (SMS –Soil Sci)

Particulars	No. of samples	No of farmers	Amount (Rs)
Soil	2,421	1,575	4,84,200.00
Water	675	625	67,500.00
Plant	58	24	11,600.00
Total	3,154	2,224	5,63,300.00

Other Income to KVK

Details	Quantity	Rate per unit (Rs.)	Amount (Rs.)
Training Hall Charges (SMS-Extn)	66	1000	66,000
Farmers Hostel Charges (SMS-Extn)	702	50	35,100
Honey bee Training fee (SMS-Extn)	36	300	10,800
Mushroom Training fee (SMS-HS)	80	300	24,000

Why Do Farmers Visit KVK?



Activities as Resource and Knowledge Centre

Externally Funded Project

National Innovation in Climate Resilient Agriculture (NICRA)

No.	Name of the Project	Source	Amount (2018-19) Rs.
1	Technology demonstration component of NICRA	CRIDA, ICAR, GOI	8,51,000

Modules
Module I - Natural Resources Management
Module II - Crop Production
Module III- Livestock & Fisheries
Module IV – Institutional Interventions

Module I - Natural Resource Management

Sl. No.	Intervention	Area (ha)/Nos.	No of Stakeholders
1	Trench cum bunding	1	4
2	Bunding across farm	3.5	16
3	Tank silt application	3.5	18
4	Levelling	4	13
5	New farm pond	2 Nos.	2
6	Renovation of farm pond	1 No.	1
7	Renovation of check dam	1 No.	1
8	Water storage structure	2 Nos.	2
9	Tamarind PKM-1	1	52
10	Jamun	0.2	15

Module II - Crop Production

No.	Seed Type	Variety	Area (ha)	No. of stakeholders
1	Ragi	ML-365	26	73
2	Ragi	KMR-204	10	21
3	Ragi	ML-322	2	5
4	Ragi	Indaf-7	2	6
5	Red gram (Intercrop)	BRG-2/4	11	76
6	Dolichos (Intercrop)	HA-4	36	82
7	Cowpea (Intercrop)	IT-3896-1	27	64
8	Aerobic paddy	Paustic-9	6	29
9	Foxtail millet	DHFT-109-3	1	4
10	Grafted tomato	-	0.1	2
11	French bean	Arka Suvidha	2	10
12	Melia dubia	-	6	16

Module III – Live Stock

Sl. No.	Seed Type	Variety	Area (ha)	No. of stakeholders
1	Fodder Sorghum	CoFS-29	2	14

Module IV - Institutional Interventions

Skill Training Programme (ASCI)

Skill Training Programme (ASCI)

S. No.	Name of Job Role	Date of Start	Date of Assessment	Total Expenditure (Rs.)	No. of Participants									No of Participants passed assessment
					General			SC/ST			Grand Total			
					M	F	T	M	F	T	M	F	T	
1	Friends of Coconut (FOCT)	21.01.2019	26.03.2019	1,63,047	14	0	14	06	0	06	20	0	20	20
2.	Mango grower	21.01.2019	27.03.2019	1,64,821	13	02	15	5	0	0	18	2	20	20

Sujala Watershed Capacity Building

Sujala Watershed Capacity Building

Date of conduct of training	Place	Number of participants
7.2.2018	Tondigere	53
12.2.2018	Kalyanapura	32
14.2.2018	Sangalapura	40
19.2.2018	Bannikuppe	32
20.2.2018	Bidanagere	38
22.2.2018	Kanakuppe	31
26.2.2018	Huliyapura	31
27.2.2018	Ragimuddenahalli	46
22.03.2018	Narasapura	45
23.03.2018	Doddaguni	39
Total		**387**

DAESI course for Input dealers

Valedictory of I Batch of "Diploma in Agricultural Extension Services for Input dealers (DAESI)" -22nd May 2018

Inauguration of III Batch of programme "Diploma in Agricultural Extension Services for Input dealers (DAESI)" -18th Jan 2019

Department of Agriculture, Horticulture

Department of Women and Children

ಕೈತೋಟದಲ್ಲೇ ಪೌಷ್ಟಿಕ ಆಹಾರ ಬೆಳೆಯಿರಿ

Nutrition garden Support

Sl.No	Date of Training	Name of the Taluk	No of SAM children	Total Ragi Malt packets (Nos)	No of Seed kits			
					No of SAM children Mothers	Moderately malnourished children mothers	Anganawadis with compound	Total
1	9-08-18	Pavagada	22	44	22	40	25	87
2	10-08-18	Turuvekere	23	46	23	10	25	58
3	13-08-18	C.K. Halli	39	78	39	40	25	104
4	16-08-18	Madugiri	76	152	76	40	25	141
5	20-08-18	Sira	23	46	23	40	25	88
6	21-08-18	Tiptur	34	68	34	40	25	99
7	25-08-18	Koratagere	22	44	22	40	25	87
8	1-09-18	Gubbi	22	44	22	40	25	87
9	7-09-18	Tumkur (R)	34	68	34	40	25	99
10	7-09-18	Tumkur (U)	25	50	25	40	25	65
11	29-09-18	Kunigal	20	40	20	40	25	85
		Total	**340**	**680**	**340**	**410**	**250**	**1000**

TSP Project of IIHR at Pavagada

Pomegranate – AMC, ACT – Demo, Sira

NHF-2019 at IIHR

Organic & Millet Mela

Demo Units, Other facilities created & Visitors

Demonstration Units and other facilities created: 2018-19

No.	Item	Amount (Rs.)
1	Organic Nutrition Garden (Shade net)	2,00,000
2	Solar Pump sets	13,79,922
3	Dhal Mill	2,49,750
4	Flour Mill	1,35,000
5	Multi crop thresher	4,93,000
6	Mini tractor	1,85,000
7	Big tractor	6,61,696
8	Power tree trimmer	74,000
9	Shrub master	70,000
10	Cultivator	48,000
11	Bund former	49,000
12	Power weeder (Brush cutter)	1,44,000
13	Rotovator	90,000

Organic Nutrition Garden

भाकृअनुप
ICAR

ICAR-IIHR

Newly purchased implements

भाकृअनुप
ICAR

ICAR-IIHR

Newly purchased implements

भाकृअनुप
ICAR

ICAR-IIHR

Arka Uday Mango and Mucuna

Synchronized flower setting in Mango at KVK farm

Bee Keeping activities at farm

Namma Halli Radio

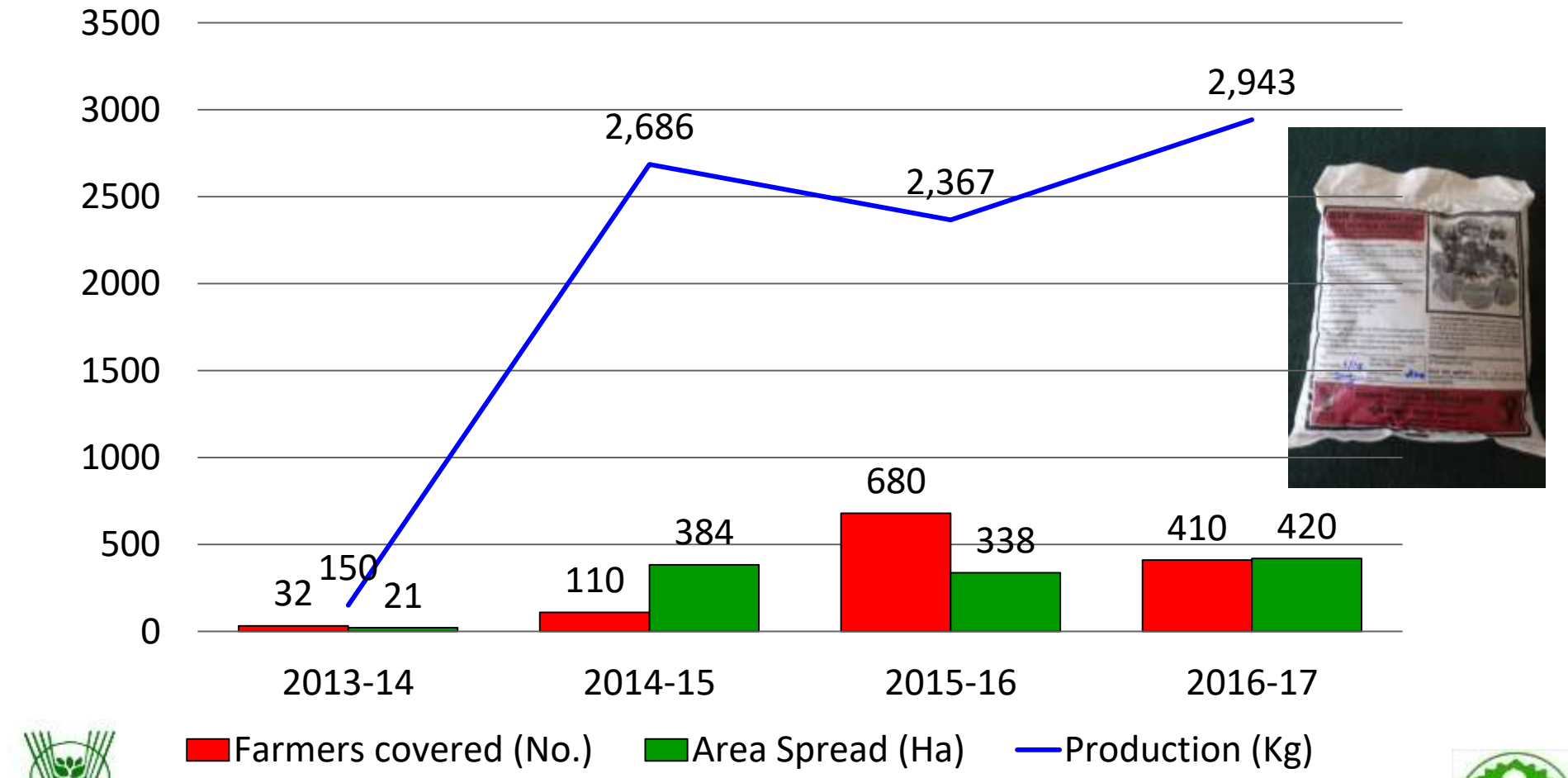
Tumakuru Organic Federation
Millet Processing Unit

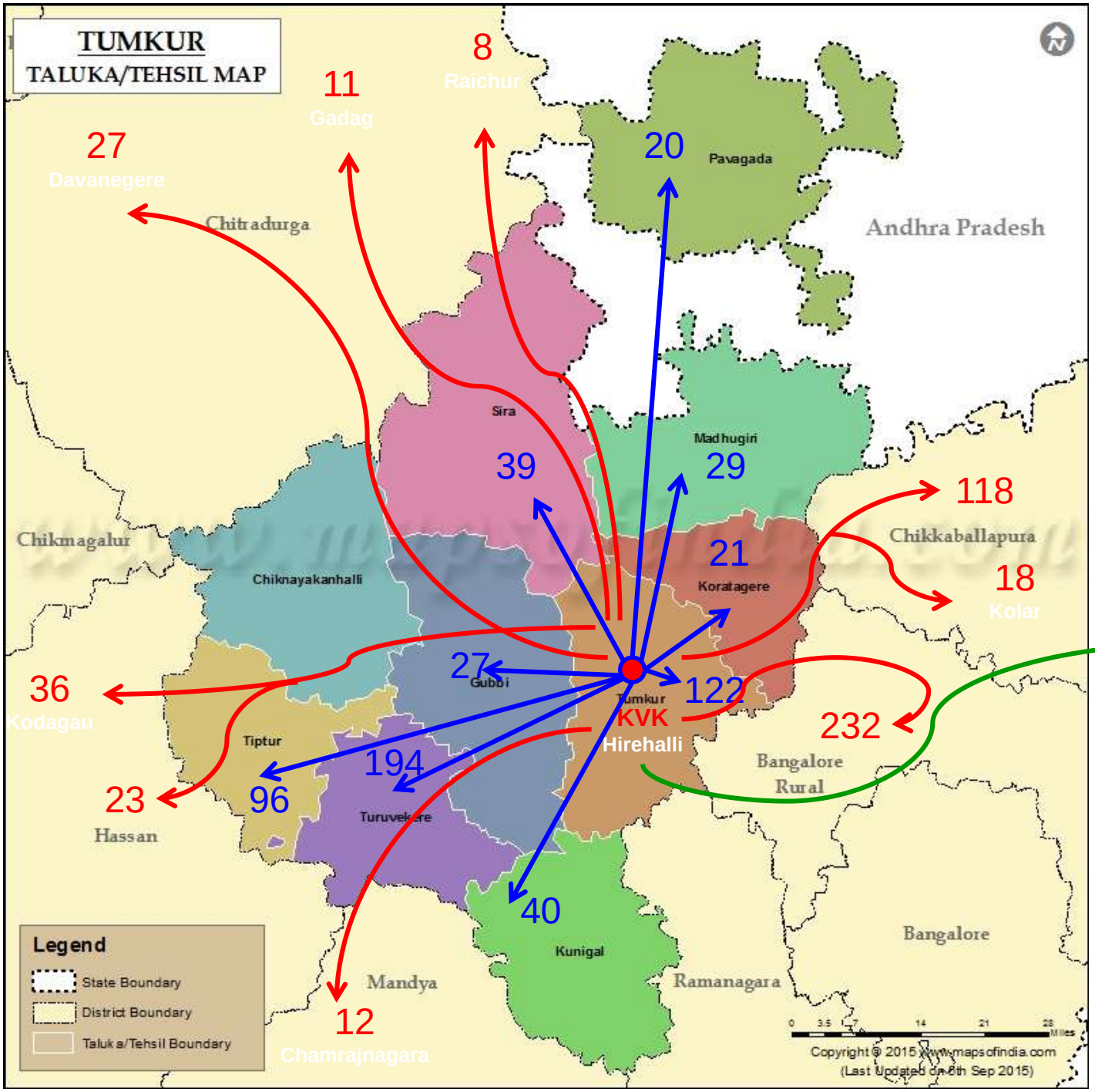
Important Visitors

Important Visitors

Impact of KVK activities & Success stories

Arka Microbial Consortium



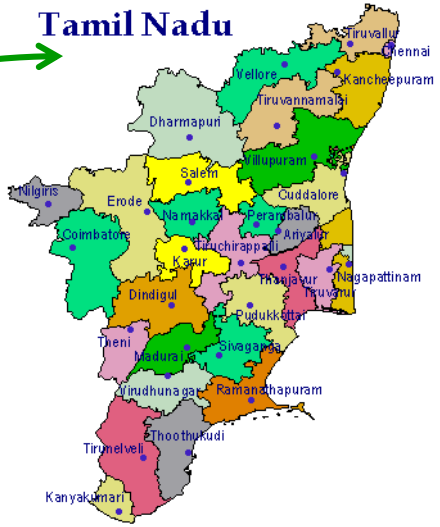


AMC Spread

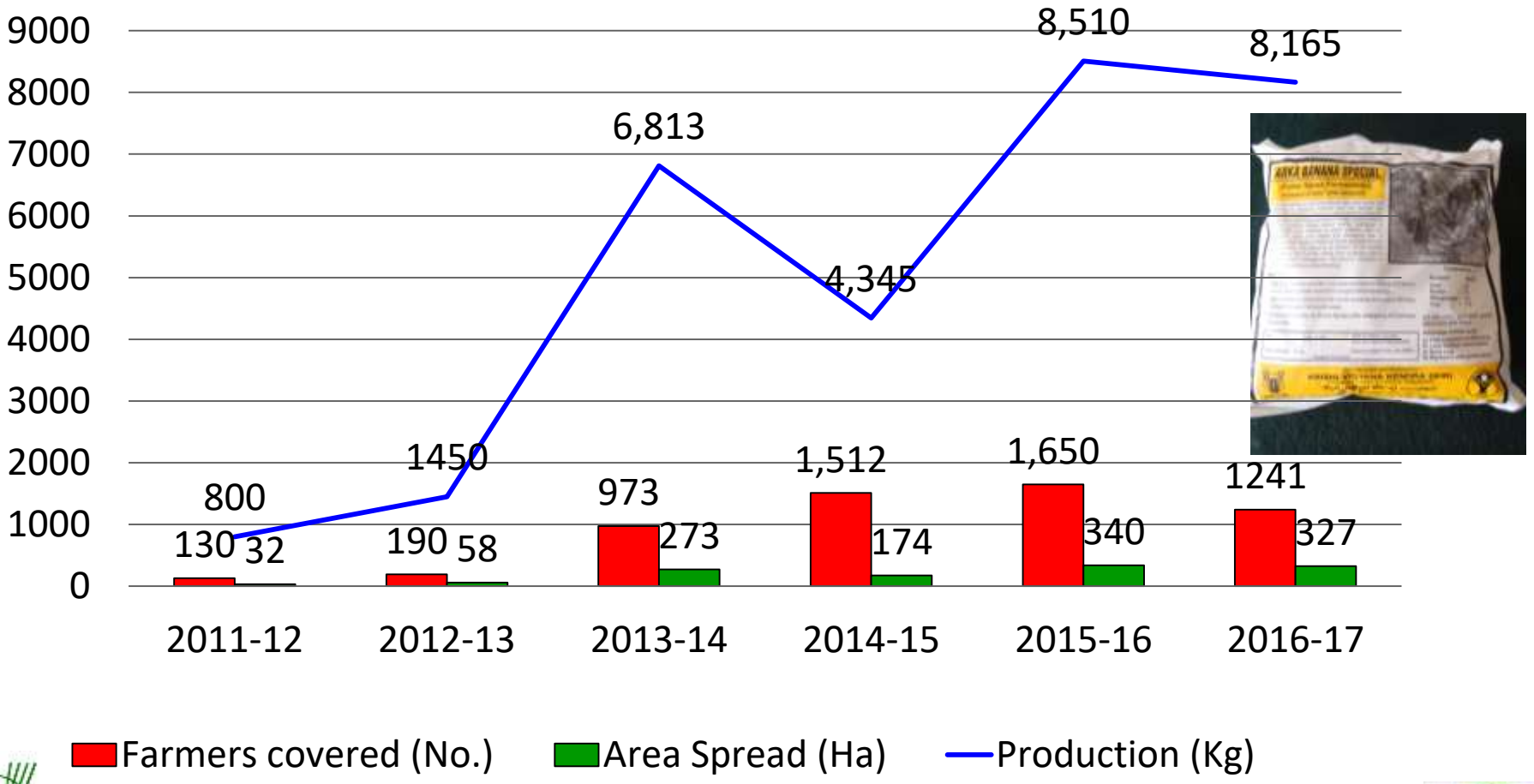
Within District – 588 Ha

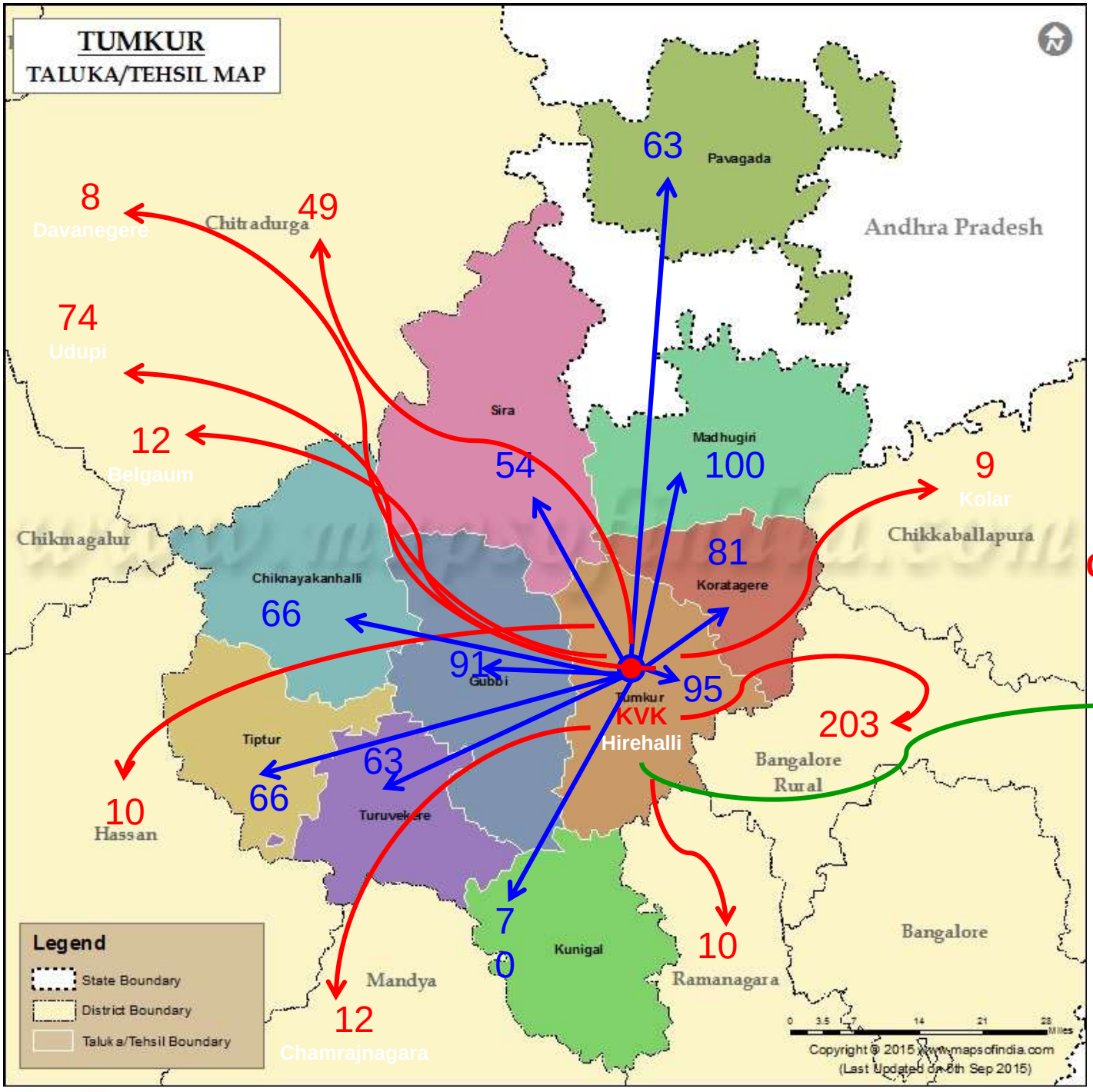
Other Districts– 495 Ha

Other State– 81 Ha



Banana Special - Impact





Banana Special

Within District – 752 Ha

Other Districts– 377 Ha

Other States – 72 ha

Tamil Nadu– 8 Ha

Kerala– 56 Ha

Nagaland – 8 Ha

Onion – Arka Kalyan

- Arka Kalyan variety of IIHR released in 2004 is suitable for *Kharif* and tolerant to purple blotch disease.
- Vegetable special as a micro-nutrient supplement ensures vigour during growth stage further insulating against pests and diseases.

Particulars	Average Yield (t/ha)	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net returns (Rs./ha)	B:C ratio
Arka Kalyan	25.34	96,560	2,53,400	1,56,840	2.72
Bellary Red	17.74	96,560	1,77 ,380	80,820	1.91

- Reduction in the disease / pest incidence to the tune of 33per cent.
- Area under new variety increased to 170 acres by 75 farmers in 3 years.
- Additional production of 76 q/ha and additional income of Rs.80, 000/ha.
- Within a few years of introduction, the variety occupied 20 per cent of onion area of 650 ha

Arecanut – intercrops and nutrient management

- About 34,719 Hectares is under Arecanut in Tumakuru district
- Several problems: inflorescence dieback, button shedding and nut splitting.
- Quality planting material of Hirehalli Tall Variety.
- Borax @ 30 g/tree along with recommended farm yard manure and fertilizers.
- Intercropping with cowpea, dolichos, French bean and Ridge gourd

Particulars	No of nuts /bunch	%Nut splitting incidence	Yield (Qtl/ha)	% Increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Income (Rs/ha)
Demo	350.2	3.4	9.54	12.5	38,512	1,88,740	1,50,228
Check	294.2	12	8.48		37,693	1,71,164	1,33,471

- Crop management technologies adopted in 8000 ha by 2600 farmers.
- Additional income of Rs. 50,000 in case of French bean and Rs.35,000.
- Foot rot disease reduced to 12 per cent from 28 per cent.
- Income increase from Rs.1,60,000 /ha to Rs.2, 25,000/ha

Budget and RFS Details

Budget (Rs.in Lakhs)– Details (2018-19)

No.	Particulars	Sanctioned	Released	Expenditure
A	**Recurring Contingencies**			
	Pay & Allowances	140.83		116.16
	Traveling allowances	0.95		0.91
	Contingencies			
1	Stationery, telephone, postage & other expenditure on office running, publication of Newsletter & library maintenance	3.31		4.36
2	POL, repair of vehicles, tractor & equipment's	2.75		3.70
3	Meals/refreshment for trainees	1.25		1.25
4	Training material	0.25		0.41
5	Frontline demonstration	1.78		1.78
6	On farm testing	0.51		0.51
7	Training of extension functionaries	0.25		0.25
8	Extension Activities	0.50		0.50

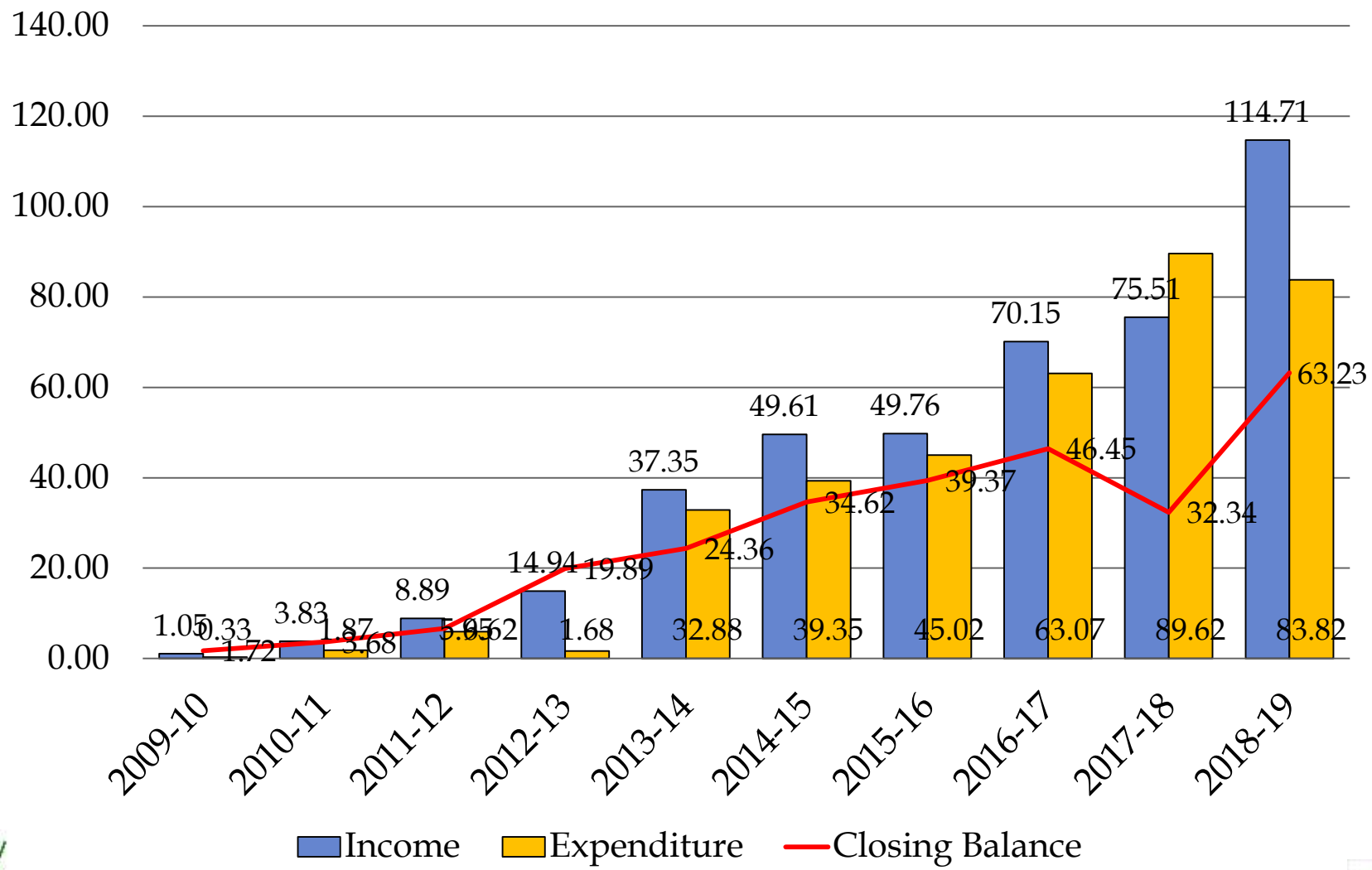
Budget (Rs.)– Details (2018-19)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
9	Soil, Plant & Water Testing and cards	0.25		0.25
10	Library	0.05		0.05
11	Farmer's Field School	0.30		0.30
12	EDP/Innovative activities	0.30		0.30
	Total Recurring			
B	**Non-Recurring Contingencies**	-		
1	Works	-		
2	Equipments & Furniture	-		
3	Vehicle	-		
4	Library (Purchase of assets like books and Journals)	-		
	Total Non Recurring	**-**		
	GRAND TOTAL (A+B)	**153.28**	**152.46**	**130.73**

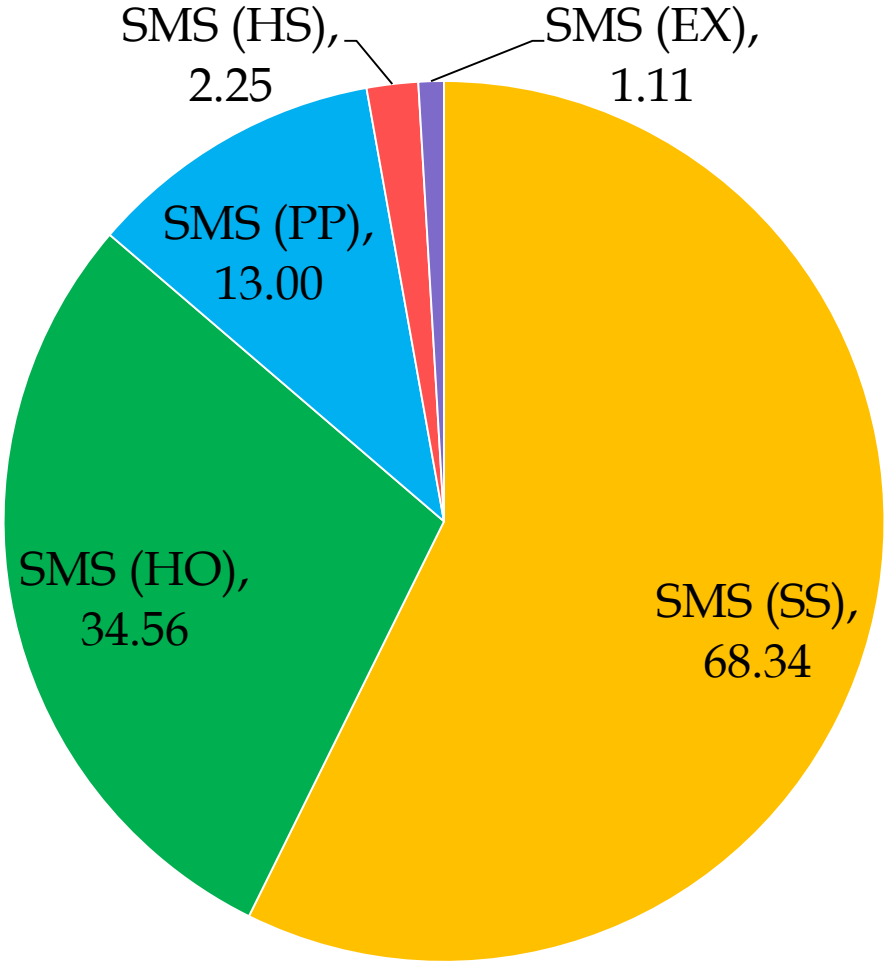
Status of Revolving Fund (Rs. In Lakhs)

Year	Opening balance as on 1st April 2018	Income during the year	Expenditure during the year	Closing Balance as on 1st April 2019
April 2018 to March 2019	32.34	114.71	83.82	63.23

Status of Revolving Fund (Rs. In Lakhs) since 2009-10



Contribution of SMS for Revolving Fund
(Rs. In Lakhs)



Thanks a lot!