ICAR- Krishi Vigyan Kendra Hirehalli, Tumakuru, Karnataka



Annual Review Workshop: 2019



20th – 21st, May, 2020 GKVK, UAS, Bengaluru



General Information of KVK

			/ear of estak	olishment	:	2009-	10	
			Address		:	NH-48 Tuma Karna	8, Hirehalli, kuru-572168 Itaka	
		F	lost Institut	e	:	ICAR- Hortic Benga	Indian Institu cultural Resea aluru	ite of arch,
KVK Ba		P E V	Phone No./ E-mail Vebsite	Fax No.	:	0816- kvk.tu www.	2243175/224 umakuru2@io .iihrkvk.org	43177 car.gov.in
2		T	fotal no. of s	staff	:	12		
		F	Area		:	16.8 H Farm	Ha (Office- 1.7 -15.1 Ha)	7 Ha,
Particulars	Head	SMS	P.A's	Admin	D	rivers	Supporting	Total
Sanctioned	01	06	03	02	02		02	16
Filled	01	05	03	02	01		00	12 Managar

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





Google Map



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

Сгор	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

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Tumakuru Rainfall Data-2019





Source: KSNDMC, Bengaluru



Tumakuru Weather Data-2019

Month	Temperature ⁰ C		Relative Humidity (%)
	Maximum	Minimum	
January	35.5	-	55.78
February	39.6	10.3	58.74
March	42.0	11.3	56.16
April	46.6	16.6	56.77
May	42.3	-	56.18
June	46.2	4.6	65.88
July	36.4	13.1	69.80
August	35.3	4.2	72.11
September	36.3	-	66.41
October	40.0	17.0	71.78
November	34.9	11.4	69.60
December	34.9	10.0	69.55



Source: KSNDMC, Bengaluru



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	All stands doed on and the stand back of an
18	Shredding Cum Chipping Unit	
19	Automatic Weather Station Unit	
20	Areca nut Based Model Cropping System Unit	And
21	Water Harvesting Cum Fish Pond Unit	A REAL PROPERTY.
22	Maduvana Block	all the second
23	Graviola Block	
24	Drum Stick Seed Production Demo Unit	





			and the set of the set
25	Centralized Irrigation System		Sand Provide
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		
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Labor	atories Details		
1.	Leaf Tissue Analysis Lab		
2.	Plant Health Clinic Lab		
Produ	iction Units		
1.	Micronutrient Production Unit		
2.	AMC Production Unit		
3.	Processing & Value addition Ur	nit Marine Marine	
4.	Neem Soap and Pongamia prod	luction unit	
5.	Vermi- Compost Production Un	it The second	
6.	Compost Production Unit		
7.	Vegetable Seed Production Unit	t	
8.	Mushroom Spawn Production L	Jnit	
9.	Fish pond Unit		
10.	Fruit fly Pheromone traps Produ	uction Unit	

CAR-IIH





9th Scientific Advisory Committee -11th Feb, 2019











Operational Areas

Taluks	DFI Cluster Villages	FPO in-charge	
Tumakuru	Anupanahalli, kodegenahalli,Seethakallu	Marikamba FPO	
Koratagere	D. Nagenahalli Vaddarahalli, Tanganahalli Chikkadoddavadi, Anupanahalli	Grama Chetana FPO	
Madhugiri	Rangapura, Badavanahalli, K .P Halli	Suvarnamukhi FPO	
Sira	Kumbarahalli, Bukkapattana.	Swawalambi Krishi Abivruddi FPO,	
Pavagada	Neralakunte, Madavarayanapalya, Venkatapura	Nidugal FPO, Pavagada FPO (DoH)	





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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 Crop Management
5	Integrated Nutrient Management
6	Integrated Pest & Disease Management
7	Intercropping / Mixed / Multistoried cropping system
8	Seed Production Techniques in Vegetables and field crops
9	Post harvest technology in Vegetables and Fruits
10	Soil and Water Conservation
11	Drudgery Reduction among women
12	Income Generating Activities and Value Addition
	Child and Women Care and balanced nutrition
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Details of target and achievements of mandatory activities of KVK: 2019

Particulars	Target	Achievement
OFT- Numbers	05	05
OFT- No. of farmers	15	15
FLD- Numbers	19	19
FLD- No. of farmers	135	127
Trainings - Numbers	63	45
Trainings – Number of farmers	1895	1591
Extension Programmes: Numbers	258	182
Extension Programmes: Number of farmers	108780	50773





Details of target and achievements: 2019

Seeds and Planting Materials	Target	Achievement
Seed Production (Qtl)	13.20	14.90
Planting Materials (No. in Lakhs)	0.70	0.80
Other KVK Products		
Neem and Pongamia Soap (Kg)	4000	5977
Sealer cum Healer (Kg)	500	551
AMC Powder (Kg)	1000	1087
AMC Liquid (Lit)	2000	5064
Fruit fly traps / Lures (No.s)	2500	16396
Micro nutrients: Banana Special (Kg)	3000	10337
Vegetable Special (Kg)	3000	6812
Mango Special (Kg)	2500	7375
Citrus Special (Kg)	1000	3434
Amla Candies (Kg)	100	44
Amla Squash (Lit)	500	120
Ragi Malt (Kg)	100	78
Mushroom Spawn (Kg)	500	860

Abstract of Interventions during 2019

SI.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	New initiatives, FPO support and visitors
9	Impact of KVK and success stories
10	RFS and Budget utilized











On Farm Testing

Abstract of OFTs during 2019

Sl.No.	Title	SMS
1	Assessment of Mustard varieties as alternative oilseed	SMS (SS)
	crop	
2	Assessment of onion varieties for Rabi season	SMS (HO)
3	Assessment on Management of Downy mildew in	SMS (PP)
	Cucumber	
4	*Assessment of Groundnut varieties for drought	
	resistance	
5	Assessment of different compost cultures in composting	SMS (EX)
	Areca husk	
6	Assessment of different storage methods to extend shelf	SMS (HS)
	life of Jasmine (Kakada)	

* Additional OFT, sponsored by ICAR-Directorate of Groundnut Research, Junagadh, Gujarat





1.Mustard varieties as oil seed crops

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Т	itle of Techn	ology	:	Asse crop	Assessment of Mustard varieties as alternative oil seed crops					
Ρ	Problem Definition : Lack of suitable oilseed crop during Rabi season, high pungency in oil pungency in oil						g Rabi season, high			
No. of Trials : 3 Farming Situation : Irr			iga	Ar ted	ea	: 0.3 ha		Soil type Season &	: Red sandy loam & Year : Rabi, 2019-20	
									SMS (Soil Science)	
XK N	Technology Options	chnology Details of ptions technology			-	Source of Technology	<u> </u>	Justification		
A - M	T1: RP	PUSA 25			IAR	l, New Del	hi	Yield : 1.5t/ha, seeds contain 39.6% of short duration(107days)		
	Т2 :АР	PUSA 28			IAR	l, New Del	hi	Yield: 2 t/ha, short duration	seeds contain 41.5% oil, n(115days)	
	Т3 : АР	PUSA 30)		IAR	l, New Del	hi	i Yield: 2.2 t/ha, seeds contain 37.7% short duration(137 days)		
	Т4 : АР	PUSA 31			IAR	ARI, New Delhi Yield : 2.37 t/ha, so oil, long duration		Yield : 2.37 t/ oil, long durat	ha, seeds contain 40.56% tion(144 days)	

Assessment of Mustard varieties for Rabi













Demonstration at NHF-2020 at IIHR



ICAR landmarks (2014-19)



Wheat: In order to economize input and water usage in wheat production, the wheat variety **HD CSW18** has been released for less water and input requirements. About 4.5 to 5 million ha area under wheat is late sown. The wheat variety **HD 3117** has been developed for late sowing conditions and conservation agriculture system.



To augment the pulses production and farmers income with a catch crop in between wheat and rice, the mungbean variety **IPM 205-7 (Virat)** has been developed with 52-55 days maturity with high protein content. The iron rich masoor variety **Pusa Ageti Masoor (L4717)** of 100 days duration has also been developed.

Mustard: In another milestone for addressing the unsaturated fatty acids in edible oils, Pusa Mustard 30 (zero erucic acid) and Pusa Mustard 31 (Double zero) have been developed to prevent atherosclerosis, a heart ailment.

Arka Rakshak and Arka Samrat: To prevent the chronic problem of leaf curl virus disease banctrial wilt and early blight in tomato, the high yielding tomato F1 Hybrids with triple disease resistance to Tomato Leaf Curl Virus + Bacterial Wilt + Early Blight have been developed for fresh market and processing. These varieties are suitable for summer kharif and rabi seasons



Results 2019-20

	Yield	Economics					
Particulars	(ton/ha)	COC (Rs./ha)	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio		
PUSA -25	0.81	24,625	64,800	40,175	2.63		
PUSA -28	0.97	24,625	77,600	52,975	3.15		
PUSA -30	1.15	24,625	92,000	67,375	3.73		
PUSA -31	1.28	24,625	1,02,400	77,775	4.15		



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2. Onion Rabi varieties

T	Title of Teo Problem D	chnology Definition	: Assessme : Non availa bulbs in K	ent of Onion varieties for Rabi season ilability of Rabi varieties and Poor storability of Kharif					
N F	lo. of Trial arming Si [.]	ls : 3 tuation: Irrig	Area : (ated	: 0.4 ha Soil type : Red sandy loam Season & Year : Rabi, 2019-20					
			Theorem and the second s	b) exclusion c)					
	Technol ogy 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.					
Ŵ	T2 :AP	Bhima Shakti	DOG, Pune	 Recommended for late <i>Kharif</i> and Rabi Bulb shape –Round 110-115 days to Maturity with Medium red Better storage 					
ू भा 1 (Т3 : АР	NHRDF L-3 Red	NHRDF Hubli	Bulbs are attractive dark red in colour. Better storage performance. Mature in 110-120 days.					

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OFT Plot Field observation

Results-2019-20

	C	Crop Particula	ars	Economics					
Particulars	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	3.42	54.28	12.36	226.26	41,212	1,5,3857	1,12,645	2.73	
Bhima Shakti	5.24	60.62	17.45	213.11	41,212	1,44,915	1,03,703	2.51	
NHRDF 3 Red	5.58	70.36	15.83	231.33	39,408	1,57,305	1,17,897	2.99	











- 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 2020-21 in Rabi.





3.Downy mildew in Cucumber

Title of Technology · Assessment on Management of Downy mildew in Cucumber									
THE OT LECK	inology	•	Assessment on Management of L	Assessment on Management of Downy mildew in Cucumber					
Problem Definition:Incidence of Downy mildew-448ha affected in the district									
No. of Tria Farming Sit	ls : 3 :uation : Irriga	ate	Area : 1.2 ha Soil Type d Season &	Area : 1.2 ha Soil Type : Red sandy soil Season & Year : Kharif 2019					
	A PAI				SM	S (Pl. Protection)			
Technology Options		[Details of Technology	of ogy	Justification				
T 1 : FP	Spray the crop Cymoxanil+ N	th Metalaxyl + Mancozeb (0.2%) and cozeb (0.2%)	UAS (B) & UHS, Bagalkot	&	Control of downy mildew is moderate and more residue content				
T 2: RP	Seed treatme Mancozeb (0.	nt v 2%)	vith Captan (2g/kg seeds) Spray of & Cymoxanil+Mancozeb (0.2%)	IIHR, Bengalur	ū	High Frequent sprays causes more residue and high COC.			
Т3:АР	 Seed treatment Trichoderment Manure (@ 1 Prophylactic by Spraying of Dimethomorp 	nen <i>a h</i> kg / Sp f M oh (l	t with Metalaxyl (2g/kg seeds) arzianum enriched Farm Yard ⁷ 100 kg FYM) application ray with Mancozeb (0.25%) followed etalaxyl+ Mancozeb (0.25%) and 0.1%)+ Mancozeb (0.2%)	IIVR, Varanasi		Integration of all the methods helps to reduce the disease incidence.			

Results:2019-20



Tachnology Dracticos	Ob	Avg. disease				
lechnology Practices	20 DAS	30 DAS	40 DAS	50 DAS	60 DAS	severity
T- 1: Local Practice	18.82	36.33	30.36	27.66	21.44	26.92
T-2: Recommended practice	15.56	31.82	30.46	23.33	24.64	25.16
T-3: Alternate practice	7.66	14.80	2.64	7.14	4.86	7.42

	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	54.80		32300	82200	49900	2.54
X	T2;Recomme	60.66	10.69	30600	90990	60390	2.97
भा 1 (ित्र: Alternate कुअनुप practice	66.54	21.42	28600	99810	71210	3.48

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. Drought tolerant varieties in Groundnut

		<u> </u>			
Title of Tech	oundnut				
Problem Definition : Erratic and uneven Rainfall distribution and lack of drought tolerant varieties					
No. of Trials : 6 Farming Situation : Rain			Area : 1.6 ha each Soil Type Season & OFT on Evaluation of Drought Tolerant	: Red sandy Year : Kharif 2 SM	soil 2019 S (Pl. Protection)
Technology Options			Details of Technology	Source of Technology	Justification
T 1 : FP & RP	K-6: 110 day suitable for l to drought, ł (95%).	s d ow nigl	uration, Uniform maturity, to medium rainfall areas, tolerant n frequency of mature kernels	ARS,Kadri	suitable for low to medium rainfall areas, tolerant to drought
Т 2: АР	DGRMB-24: medium rair	10 Ifal	5-110 days, suitable for low to areas, tolerant to drought,	DOGR, Junagarh	tolerant to drought <i>,</i>
Т 3 : АР	DGRMB-32: medium rair	10 Ifal	5-110 days, suitable for low to areas, tolerant to drought,	DOGR, Junagarh	tolerant to drought,
Т4: АР	TG37A: 100 medium rai)-1(nfa	05 days, suitable for low to Il areas, tolerant to drought,	DOGR, Junagarh	tolerant to drought,

RESULTS: 2019-20

Technology options	Germinati on (%)	Days to Flowering	Number of Pegs/plant	Stem rot(%)	No.of Days taken for harvesting
Т- 1: К-6	91.64	78 DAS	24.64	13.60	115
T-2: DGRMB-24	92.86	82 DAS	32.38	18.64	105
T-3: DGRMB-32	93.44	83 DAS	29.64	15.61	105
T4-TG37A	91.52	78DAS	23.46	12.64	100



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	Results:2019-20								
Technological options	Yield in Qtls/h a	% increas e in yield	Straw yield Qtls/ha	Cost of cultivati on(Rs.)	Gross Returns (Rs.)	Net returns (Rs.)	B C ratio		
Т-1: К-6	11.20		39.44	25964	57008	31044	2.20		
T-2: DGRMB-24	13.65	21.87	40.86	24658	69478.5	44820	2.82		
T-3: DGRMB-32	13.00	16.07	38.44	24698	66170	41472	2.68		
T4: TG-37A	12.79	14.19	39.96	25987	65101.1	39114	2.51		




Conclusion

Farmers' Feedback:

DGRMB-24 and DGRMB-32 performed very well under severely prolonged moisture stress and recovered after long dry spell and provided better yield than ruling varieties.





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, 2019-20

	್ಕ್ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂ ಕ್ಷೇತ್ರ ಪರೀಕ್ಷೆ : ಕಾಶದ ಹೆಚ್ಚರ್ನು	ರ್ಷ - ಹಿರೇಹಕ್ಕೆ, ತುಮಕೂರು 🏈 ಹೂವಿನ ಶೇಖರಣಾ ಗುಣಮಟ್ಟ ವ ವಿವಿಧ ಪದ್ಧತಿಗಳ ಪರಿತೀಲನೆ.	SMS (Home Science)
Technology Options	Details of technology	Source of Technology	Justification
T1: FP	Farmers practice	-	Storage in wet gunny bags
Т2 :АР	200 μ Polythene bags	TNAU	Storage in Polythene bags(200µ)
Т3 : АР	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





Particulars	Shelf Life (Hrs)	Phys in	ysiological loss Freshness Index (%) n Weight (%)			Colour retention Index(%)				
		24 hrs	48 hrs	72 hrs	24 hrs	48 hrs	72 hrs	24 hrs	48 hrs	72 hrs
Control	28	32.89	50.50	58.60	71.00	0.00	0.00	60.20	32.00	0.00
200 Gauge	80	6.30	10.40	16.60	100	96.20	91.20	96.20	86.80	78.60
300 Gauge	85	4.32	7.30	13.48	100	97.20	92.86	98.20	92.80	87.20
4% Boric Acid	76	2.48	6.28	10.62	98.80	87.00	78.80	89.30	80.00	75.20





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.





5.Assessment of different compost cultures in composting Areca husk

Problem: Delay in decomposing for use in Agriculture and Horticulture Crops

No. of Demos: 03 Village: Hirehalli, Kodigenahalli

Technological Options

Team : Agril.Extn & PC

Treatments	Technology option	Source of technology
TO1	Arka Decomposer	IIHR, Bengaluru
TO2	Compositing Culture	UAS, Dharwad
TO3	Organic Decomposer	NCOF,UP









ವ್ರಜಾ<u>ಸಿ</u>ವ್ರಗತಿ

ಕೃಷಿ ತ್ಯಾಜ್ಯವನ್ನು ಗೊಬ್ಬರವಾಗಿ ಪರಿವರ್ತಿಸಿಕೊಳ್ಳಿ

ಮಣ್ಣದ ಪ್ರವಾಭ ಕೇವ ಕೇಮಬ್ರದಲ್ಲಿ ಪಾರುತ್ತದರಿಂದ ಕ್ರತಿಯಲ್ಲಿನ ಪ್ರಾಷ್ಟತ್ ಗೊಬ್ಬದವಾಗಿ ಪರಾವತ್ ತೇವ ಹಾಗೇಉಳಿಯುತ್ತಿದೆ ಹಾಗೂ ಎದ್ದರು ರೈವರು ಬೆಕೆತಹಾ ಸಬ್ರು ಪ್ರಸ ಮಣ್ಣಿಸಿದ್ದರು ಸೂಕ್ಷವಾ ಜೀವಿಗಳು ಮತ್ತು ರೃತ ಮತ್ತ ಎರೆಡುಳುಗಳು ಬರಿಕೊಡುತ್ತಿರುವುದು ಸೋರ್ವ ಸಂಗತಿ ಎಂದು ಕೃಷಿ ವಿವ್ಯಾಪೇಂದ್ರ ಹಿರೇಹಳೆಯ ಕೃಷಿ ವಿಶ್ವರಣಾಧಿಕಾರಿ ಕುವ್ ಸಾಗಿಂಡ್ ಸೇರಿಗಳು

ಸದ್ಯಂತ ಬ್ರಸ್ ಬಿಗ್ರಾಮರೋಪ, ಗ್ರಾಧುಗಣಕು, ಮಾಡಿ ಕನೆ, ಬದ್ಧಾತೇಂತ ಬರಕ್ಕಾ ಎವರ ಕನೆಯೇಗದಲ್ಲಿ ಬರಕ್ಕಾ ಎವರ ಕನೆಯೇಗದಲ್ಲಿ ಬರಗಿನ ಕನ್ನಾರಿ ಕಾರ್ಯವಿ ತ್ಯಾಮಿಂ ಕೂಡಿಗಳಲ್ಲಿ ಗ್ರಾಮರ ಸಾಮವ ಕೊಡಿಗಳಲ್ಲಿ ಗ್ರಾಮರ ಸಾಮವ ಕ್ಷಿಷಿತ ನೀರೆಸುವುಗಳು ಬರಕಾರಿ ತಾರ್ಮಿ ವರುವ ಯಾವುತೆ ಹುಡುಗಳು ರಾತ್ರಕ್ಕೆ ತುರುವ ಕೆಸ್ತಾಗಿ ಕಾರ್ಯಕ್ರಮ ತುರುವ 200 ರಿಂಟ್ ಸಿಂಗರೇಗ್ ಕಾರ ವರ್ಟಿ ಕುರುವ 200 ರೀಟ್ ಸಿಂಗರೇಗ್ರೆ ಹಿಟ್ಟು ಅದನಿ ಎಲ್ಲಾಂತಿಯ ಹೆಳೆಗೆಗೆ ಹುರ ವರ್ಟಿ ಮಾಡುವು ಎಂದು ತಿರುವರು ಕ್ಷತಿತ ಸ್ಥಾತವನ್ನು ಗೋಗ್ರಹನ ಮತ್ತು ಕುರುವ ಕೊಡಿ ಕುರುವ ಸಿಂಗ ಇಂತರು ವಿಶೇಷವಾತಿಗಳು ಸಂಭ ತುರಿತ ಮಾಡುವರು ಎಂದು ತಿರುವರು ಸದಿತ ಮಾಡುವರು ಎಂದು ತಿರುವರು



[ವೇಶ್ವ ಕೇಶ್ರೋಜರ್ ಪ್ರಾಸ್ತ್ರಕಟೆಯಾ ವಿವರುವುದು. ಕುಡುವರೆ ಸರಸಿತಿಗಳು ತುಂಬಿದ್ದವು ಕಾರ್ಯಾಮಗಳು ಕಾರ್ಥೀದರ್ಶ ಸಂಕ್ಷದ್ರ ಭಾಗವಟಿ ಮಾಟಿಗಳನ್ನು ತಿಂದುಕೊಳ್ಳ ಎಂದು ಪನದ ಮಾಟರದು. ಸದ್ದವರಿ ಟ್ರ್ಯಾಲೋಜನ ಸಂಭೋಗವರದ ಸಂಕ್ಷದಾ ತೋಗಿದ್ದಾರೆ. ದೋಪಾರಿಯ ಲೀಗದೇವರೆ ಮಾತಾಡುತ್ತ ಸಂಕ್ಷೆಯ ತೋರುತ್ತಿರುಂದ ಪ್ರತಿಕಿತಿಸಲು. ಕೆಳೆದ ಐದು ವೇಗಗಳು ಕೂರ್ತಿಗಳು ಮಾಡಿಗಳು ಎದ್ದರೆಯನ್ನು

ನಂತರ ಮಾತಾದಾಡಿದ ವಿಷಯವು ಕೇರೆ ಜರು ಹೇಗಳಿಂದ ಉರ್ಜಿಗರಿ ಮತ್ತು ಹಾಯಾಕ್ರಮದಲ್ಲಿ ಗ್ರಾಮಿಗಾಕೂಟದ ಹೆಚಿಕ್ ಇಂದು ಸೇಲ್ ಸಾಮನದ ಕ್ರಮಿ ಕೇರೆ ಜರು ಹೇಗಳಿಂದ ಉರ್ಜಿಗರಿ ಗ್ರಾಮ ಹಾಯಾಕ್ರಮದಲ್ಲಿ ಉತ್ತೇಜಕ ನೀಡುತ್ತಿದ್ದು ಇವಹ ವರ್ಷಕರ್ಗಳ ಸಂಭಾಗದಲ್ಲಿ ಕ್ರಮಿ ಅಂಗ್ರಾಗಿಗೆ ಮತ್ತು ಕೆಟರಿಂಗುವ, ನದ್ದರಹ ಸ್ವರ್ಮಿಂಜನವು ಕ್ರಮ ಪಡೆಯಲಿಕೊಂಡು ಹೊಳಗು ಹೊಳಗಾಗಿದೆ. ಹೆಚರಿನಿಂದ ಅವಧ್ಯರಿ ಅಧಿರಾಗಿಗಳು ಮಹಿಳಿದು ಕ್ರಮಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಕೃಷಿ ವಿಷದ್ದು ಕೇಂದ್ರದಲ್ಲಿ ಪ್ರಾಥಾರಿಕೊಳಿತು. ಇದರ ಸೇವರ ಹೊಳಗು ಹೆಚ್ಚಿತ್ತು ಕಂಡಗಳಿತ ಮತ್ತು ಸಂಜಾನಿ ಪ್ರಾಕ್ತಿಯ ಕ್ರಮಾಲಿಸಿದಂತೆ ಕೃಷಿ ವಿಷದ್ದು ಕೇಂದ್ರದಲ್ಲಿ ಪ್ರಾಥಾರಿಕೊಳಿತು. ಇದರ ಸೇವರ ಹೊಳಗು ಹೆಚ್ಚಿತ್ತು ಕೇಂದ್ರಗಳಿ ಮತ್ತು ಸಂಜಾನಿಕ ಪ್ರಾಕ್ತಿಯ





Edition



Samples are being drawn for analysis 100th, 125th & 150th Day



Results - 100 days

Treatme nts	Technology option	N(%)	C(%)	H(%)	S (%)	C:N Ratio	C:H Ratio
TO1	Arka Decomposer IIHR, Bengaluru	1.18	27.30	3.52	0.20	23.21	7.75
то2	Compositing Culture UAS, Dharwad	1.03	33.51	4.16	0.12	30.30	7.48
тоз	Organic Decomposer NCOF,UP	1.16	31.16	4.42	0.15	28.76	7.58





FLDs and EDP





Front Line Demonstrations, EDP and CFLD

Abstract during 2019

No.	Title	SMS		
1	Enhancement of Productivity of Finger millet by drought tolerant variety ML 365			
2	Demonstration of water saving Aerobic Paddy Paustic-9			
3	Integrated Crop Management in Arecanut			
4	Demonstration of Organic farming practices in French bean	(33)		
5	Demonstration of AMC liquid and Arka Actino Plus on growth, quality and yield of Pomegranate			
6	Integrated Pest and Disease Management in Maize	SMS		
7	Integrated Pest and Disease Management in Bhendi	(PP)		
8	Integrated Crop Management in French Bean – Arka Arjun			
9	Integrated Crop Management in Chilli - Arka Harita			
10	Integrated Crop Management in China Aster – Arka Archana	SMS (Hort)		
11	Demonstration of Aromatic crop- Lemon grass – Krishna			
12	Demonstration of Aromatic crop- Palmarosa- PRC 1			

भाकृअन्प



Front Line Demonstrations, EDP and CFLD

Abstract during 2019

13	Demonstration of Fodder sorghum CoFS 29	
14	Demonstration of Marvel Grass -Perennial Fodder Dicanthium annulatum	SMS (Fxt)
15	Demonstration of Fodder -Hybrid Napier	
16	Demonstration of Finger millet Variety KMR 340 for Value Addition	
17	Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition	SMS (HS)
1	EDP: Tamarind : Value Addition, Branding and Market linkage	(113)
1	CFLD: Enhancement of Pigeon pea yield through introduction of BRG – 5 (NFSM)	SMS
2	CFLD: Enhancement of Groundnut (K-6) yield (NMOOP)	(PP)





1.Enhancement of Productivity of *Finger millet* by drought tolerant variety ML 365

Сгор	Finger millet
Thrust area	High yielding variety
District Area / Avg. Yield	1,71,527 ha / 16 q/ha
Problems	Poor soil health and low soil fertility and low yield
Technology demonstrated	Red gram seeds (intercrop) – 5 kg/ha, FYM - 10 ton/ha, Biofertilizer - 1 kg/ha, RDF - 50 kg/ ha – 50:37:40 NPK kg/ha, Borax - 10 kg/ha, Zinc sulphate – 12.5 kg/ha
Source	UAS, Bengaluru
Parameters studied	Plant height (cm), Root length (cm), Yield (t/ha)
Cluster Villages	Tanganhalli (K), D.Nagenahalli (K), Rangapura (M)
Season	Kharif, 2019
SMS	Soil Science

Critical inputs provided	Area (ha)	No. of Farmers
Ragi ML-365 seeds, Red gram seeds	2	10

CAR-III

Particular s	Avg. Plant height (cm)	Root lenght (cm)	Avg. Yield (q/ha)	% Increa se	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonst ration	143	17.2	27.4	34.9	22,430	61,650	39,220	2.75
Check	114	15.8	20.3		21,950	45,675	23,725	2.08

Price: Rs.22.5/kg

- Farmers' Feedback: The new variety withstood the dry spells
- Cooked grain is very tasty
- Increased the Finger millet yield by 34.9 % compared to farmers practices



2.Demonstration of Aerobic Paddy Paustic-9

Сгор	Paddy
Thrust area	Water scarcity
District Area / Avg. Yield	9502 ha / 30 q/ha
Problems	Poor soil health and low soil fertility and low yield
Technology demonstrated	Paustic var seeds – 10 kg, FYM - 10 ton/ha, Biofertilizer – 0.5 kg/ha, RDF - 50 kg/ ha – 100:50:50 NPK kg/ha, Borax - 8 kg/ha,Zinc sulphate – 20 kg/ha
Source	UAS, Bengaluru
Parameters studied	Plant height (cm), Yield (t/ha)
Cluster Villages	Tanganhalli (K), D.Nagenahalli (K), Rangapura (M)
Season	Kharif, 2019
SMS	Soil Science

Area (ha)	No. of Farmers
2	10
-	Area (na) 2

CAR-IIH

Particular S	Avg. Plant height (cm)	Root lenght (cm)	Avg. Yield (q/ha)	% Increa se	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonst ration	137	27.3	34.1	22 E	25,850	52,173	26,323	2.07
Check	121	22.9	27.6	23.5	25,850	42,228	16,378	1.63

Price: Rs.15.3/kg

- Farmers' Feedback: The new variety required 40% less water compared to flooding
- Increased the Aerobic Paddy yield by 23.5 % compared to farmers practices



3.ICM in Arecanut

Сгор	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, 2019
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

Particul ars	Avg. Yield (Arecanut) (ton/ha)	Intercrop Avg. Yield (ton/ha)	Ganoder ma wilt (%)	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demon stration	1.09	2.9	2	82,350	2,50,600	1,68,250	3.04
Check	0.94	-	4	73,750	1,97,850	1,24,100	2.68





- Farmers' Feedback: French bean Intercropping has resulted in additional income of Rs. 52,750/ha.
- ICM in Arecanut increased the income up to 35.5% as compared to check



4. Demonstration of Bio-rationals in French bean

		COAS AND	A Company			
Сгор	French bean					
Thrust area	Organic farming					
District Area / Avg. Yield	250 ha / 11.4 ton/ha					
Problems	Poor soil health and lov	v 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	Durgadahalli, Tumakuru and					
	Anupanahalli					
Season	Rabi, 2019	Rabi, 2019				
SMS	Soil Science					
ته کا العلم الح الحقاق الحقاق الحقاق الحقاق الحقاق	ಶಶ್ಯೆ / ರೈತರು : 5 ಖಸ್ತೀರ್ಣ : 1.0 ಹೆ. ಸ್ಥನ ಅಕಪಡಿಕೆ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ , ಬೆಂಗಳೂರು					
Critical inputs	provided	Area (ha)	No. of Farmers			

1

5

Jeevamrutha- 2000 lits /ha



Particula rs	Avg. Plant height (cm)	Root lenght (cm)	Pod lenght (cm)	Avg. Yield (t/ha)	% Increa se	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demons tration	63.7	16.1	14.9	11.22	22.1	33,131	1,68,300	1,35,169	5.07
Check	42.9	12.2	12.3	9.19		36,253	1,37,850	1,01,597	3.80

Price: Rs.15/kg

- 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 22.1 % compared to farmers practices







5.Demonstration of AMC liquid and Arka Actino Plus on growth, quality and yield of Pomegranate

Сгор	Pomegranate	Pomegranate				
Thrust area	INM					
District Area / Avg. Yield	3800 ha / 7.6 ton/ha					
Problems	Low nutrient use effi incidence of blight, v	Low nutrient use efficiency, low soil fertility, Severe incidence of blight, wilt and low yield				
Technology demonstrated	FYM – 40 kg / tree, RDF : 400:200:200 g/ tree NPK, AMC liquid: 10 ml / 1 lit, ACT : 20 g / lit, Neem soap: 7 g/ lit, Micronutrient special: 3 g / lit, Pheromone traps : 8 Nos. / acre for fruit flies					
Source	IIHR, Bengaluru					
Parameters studied	Growth parameters Economics	s, Disease Ind	cidence, Yield and			
Cluster Villages	Venkatapura (P), Kumb	arahalli (S)				
Season	Rabi, 2019					
Critical inputs	provided	Area (ha)	No. of Farmers			
AMC liquid, ACT, Neem soap and Pheromone traps		2	3			

Particul ars	Blight incidenc e of leaf(%)	Wilt incidenc e (%)	Avg. Yield (t/ha)	% Increa se	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demon stration	17.7	1.6	9.6	18.5	93,150	6,72,000	5,78,850	7.2
Check	61.2	7.3	8.1		1,46,400	5,26,500	3,80,100	3.4

Price: AMC treated fruits: Rs.70/kg, Farmers practice: Rs.65/kg

- Farmers' Feedback: Application of liquid AMC and ACT have increased the fruit yield, reduced the disease incidence and improved the fruit quality.
- Reduced the cost of cultivation by Rs.53,250/- per ha

- Increased the Pomegranate yield by 18.5 % compared to farmers practices







Pesticide residue analysis of Pomegranate

(Ŷ	Food Saf ICAR-Indian In: Hessaraghatta Email Phone No: O	ety Referral stitute Hortis Lake Post, B I: lihrfsrl@gr BD-23086100	UID Laboratory sultural Research engaluru-560089 sail.com e extn: 480/485
		TEST RE	PORT	
	Report No Customer address	: FSRL20 : Dr. Yogi	20-036 ananda	i
	Name of the sample	: Pomogra	nate 10	
	Date of sample receipt	: 23.11.20	19	
	Lab ID	: FSRL201	91125 - 22	9
	Date(s) of analysis	: 26.12.20	19	
	Location	: FSRL		
	Method of analysis	: AOAC 2	007.01	
	Sample description	: Pomograr	nate Sample	
	(Posticido residue)			
	1.Pomogranate Arial			
Γ	SI. Test Parameter	Results in	LOD	Specifications/MRL
1	No	(mg/kg)	(mg/kg)	(mg/kg)
- F	Acephate Acetamiorid	ND	0.002	NA
	3. Atrazine	ND	0.002	NA
-	4. Azoxystrobin	ND	0.001	NA
	6. Bitertanol	ND	0.003	NA
	7. Boscalid	ND	0.002	NA
-	8. Buprofezin 9 Carbaryl	ND	0.002	NA
	10. Carbofuran	ND	0.001	NA
_	11. Chlorantraniliprole	ND	0.005	NA
-	12. Clothianidin	ND	0.005	NA
	14. Difenconazole	ND	0.001	NA
	15. Dimethoate	ND_	0.002	NA
CS C	anned with	Food S	Safety Referra	4 Il Laboratory
		Hessaraghat	ta Lake Post,	Bengaluru-560089
	No.	Em Phone No:	ail: iihrfsrl@g : 080-2308610	mail.com XX extn: 480/485
	22. Feramiphos	ND	0.002	NA
	23. Fenazaquin	ND	0.005	NA
	24. Fenobucarb	ND	0.005	NA
	26. Fipronil	ND	0.005	NA
	27. Fipronil sulfone	ND	0.005	NA
	29. Floupicolide	ND	0.005	NA
	30. Floupyram	ND	0,001	NA
	32. Imidactoprid	ND	0.003	NA
	33. Indoxacarb	ND	0.002	NA
	34. Iprovaticaro 35. Kresoxim Methyl	ND	0.001	NA
	36, Malathion	ND	0.002	NA
	37, Mandipropamid 38 Metalaxyl	ND	0.001	NA NA
	39. Metribuzin	ND	0.005	NA
	40. Myclobutanil 41. Oxycarboyin	ND	0.005	NA
	42. Phosalone	ND	0.005	NA
	43. Phosphamidon	ND	0.005	NA NA
	45. Primiphos Methyl	ND	0.002	NA
	46. Profenophos	ND	0.001	NA
	47. Propanii 48. Propiconazole	ND	0.005	NA
	49, Propusur	ND	0.001	NA
~~~///	51. Quinalophos	ND	0.002	NA
seal/N	52. Spiromesifen	ND	0.005	NA



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UID of Format: 7.8.2 Food Safety Referral Laboratory ICAR-Indian Institute Hortkultural Research Hessaraghatta Lake Post, Bengaluru-560089 Email: ihr/sfn/@gmail.com Phone No: 080-23086100 extn: 480/485

			0.005	NA	LC-MS/MS
16.	Dimethomorph	ND	0.005	NA	LC-MS/MS
\$7.	Dinctofuran	ND	0.002	NA	LC-MS/MS
18.	Ethion	ND	0.005	NA	LC-MS/MS
19.	Penamidone	ND	0.001	NA	LC-MS/MS
20.	Fenamiphos	ND	0.002	NA	LC-MS/MS
21.	Penamiphos surrone	ND	0.002	NA	LC-MS/MS
22.	Fenamiphos	ND	0.002		LC-MS/MS
23.	Fenazaquin	ND	0.005	NA	LC-MS/MS
24.	Fenobucarb	ND	0.005	NA	LC-MS/MS
25.	Fenpyroximate	ND	0.005	NA	LC MS/MS
26.	Fipronil	ND	0.005	NA	LC MCMS
27.	Fipronil sulfone	ND	0.005	NA	LC-MS/MS
28.	Flonicamid	ND	0.001	NA	LC-WISING
29.	Floupicolide	ND	0.005	NA	LC-MISING
30.	Floupyram	ND	0.001	NA	LC-MARNIS
31.	Flufenoxuron	ND	0.005	NA	LC-MS/MS
32.	Imidacloprid	ND	0.002	NA	LC-MS/MS
33.	Indoxacarb	ND	0.002	NA	LC-MS/MS
34.	Iprovalicarb	ND	0.001	NA	LC-MS/MS
35.	Kresoxim Methyl	ND	0.005	NA	LC-MS/MS
36.	Malathion	ND	0.002	NA	LC-MS/MS
37.	Mandipropamid	ND	0.001	NA	LC-MS/MS
38.	Metalaxyl	ND	0.001	NA	LC-MS/MS
39	Metribuzin	ND	0.005	NA	LC-MS/MS
40	Myclobutanil	ND	0.005	NA	LC-MS/MS
41	Oxycarboxin	ND	0.005	NA	LC-MS/MS
42	Phosalone	ND	0.005	NA	LC-MS/MS
43	Phosphamidon	ND	0.005	NA	LC-MS/MS
44	Pretilachlor	ND	0.002	NA	LC-MS/MS
45.	Primiphos Methyl	ND	0.002	NA	LC-MS/MS
46.	Profenophos	ND	0.001	NA	LC-MS/MS
47.	Propanil	ND	0.005	NA	LC-MS/MS
48.	Propiconazole	ND	0.005	NA	LC-MS/MS
49.	Propuxur	ND	0.001	NA	LC-MS/MS
50.	Pyraclostrobin	ND	0.002	NA	LC-MS/MS
51.	Quinalophos	ND	0.005	NA	LC-MS/MS
52.	Spiromesifen	ND	0.005	NA	LC-MS/MS

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Food Safety Referral Laboratory Food Satety Kercinal Calonatory ICAR-Indian Instituto Horticultural Research Hessanghatta Lake Post, Bongaluru-560089 Email: ihrfsrt@gmaK.com Phone Ko: 080-23086100 extr: 480/485

#### LC-MSIMS LC-MS/MS 0.001 53. Tebucona ND N/ ND 0.001 ND 0.002 ND 0.003 ND 0.004 ND 0.005 ND 0.001 54. Thiabendazole 55. Thiabendazole 56. Thianethoxam 57. Thiodicarb 58. Thiophanate Methyl 59. Triadantifon 60, 1 61. Trichlorofon 62. Tricyclazole 63. Triflaxystrobin

SI.	Test Parameter	Results in (mg/kg)	LOD (me/kg)	Specifications/MRL (mg/kg)	Techniques used
1	Acephote	ND	0.002	NA	LC-MS/MS
2	Acrtamintid	ND	0.005	NA	LC-MS/MS
3.1	Atrazine	ND	0.002	NA	LC-MS/MS
4	Azoxystrohin	ND	0.001	NA	LC-MS/MS
5	Bifenazate	ND	0.005	NA	LC-MS/MS
6	Bitertanol	ND	0.002	NA	LC-MS/MS
7	Boscalid	ND	0.002	NA	LC-MS/MS
8	Buerofezin	ND	0.002	NA	LC-MS/MS
- 0.	Carbaryl	ND	0.002	NA	LC-MS/MS
10	Carbofuran	ND	0.001	NA	LC-MS/MS
11	Chlorantraniliprole	ND	0.005	NA	LC-MS/MS
12	Clothiunidin	ND	0.005	NA	LC-MS/MS
13	Diafentitiuma	ND	0.001	NA	LC-MS/MS
14	Difenconazole	ND	0.005	NA	LC-MS/MS
15	Dimethoate	ND	0.002	NA	LC-MS/MS
16	Dimethomorph	ND	0.005	NA NA	LC-MS/MS
17	Dinetofuran	ND	0.005	NA	LC-MS/MS
18	Ethion	ND	0.001	NA	LC-MS/M
19.	Fenamidone	ND	0.005	NA	LC-MS/M
20.	Fenamiphos	ND	0.001	NA	LC-MS/M
21.	Feramiphos sulfone	ND	0.002	NA	LC-MS/M

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Techniques used LC-MS/MS LC-MS/MS

LC-MS/MS

23. Fenazaquin	ND	0.005	NA	LC-MS/MS
74, Fenobucarb	ND	0.005	NA	LC-MS/MS
25. Fenpyroximate	ND	0.005	NA	LC-MS/MS
26. Fipronil	ND	0.005	NA	LC-MS/MS
27 Fipronil sulfone	ND	0.005	NA	LC-MS/MS
28. Flonicamid	ND	0.001	NA	LC-MS/MS
29. Floupicolide	ND	0.005	NA	LC-MS/MS
30. Floupyram	ND	0.001	NA	I.C-MS/MS
31. Flufenoxuron	ND	0.005	NA	LC-MS/MS
32. Imidacloprid	ND	0.002	NA	LC-MS/MS
33. Indoxacarb	ND	0.002	NA	LC-MS/MS
34. Iprovalicarb	ND	0.001	NA	LC-MS/MS
35. Kresoxim Methyl	ND	0.005	NA	LC-MS/MS
36. Malathion	ND	0.002	NA	LC-MS/MS
37. Mandipropamid	ND	0.001	NA	LC-MS/MS
38. Metalaxyl	ND	0.001	NA	LC-MS/MS
19. Metribuzin	ND	0.005	NA	LC-MS/MS
0. Myclobutanil	ND	0.005	NA	LC-MS/MS
1. Oxycarboxin	ND	0.005	NA	LC-MS/MS
2. Phosalone	ND	0.005	NA	LC-MS/MS
3. Phosphamidon	ND	0.005	NA	LC-MS/MS
4. Pretilachlor	ND	0.002	NA	LC-MS/MS
5. Primiphos Methyl	ND	0.002	NA	LC-MS/MS
6. Profenophos	ND	0.001	NA	LC-MS/MS
7. Propanil	ND	0.005	NA	LC-MS/MS
8. Propiconazole	ND	0.005	NA	LC-MS/MS
9. Propuxar	ND	0.001	NA	LC-MS/MS
0. Pyraclostrobin	ND	0.002	NA	LC-MS/MS
I. Quinalophos	ND	0.005	NA	LC-MS/MS
2. Spiromesifen	ND	0.005	NA	LC-MS/MS
3. Tebuconazole	ND	0.001	NA	LC-MS/MS
4. Thiabendazole	ND	0.005	NA	LC-MS/MS
5. Thiacloprid	ND	0.002	NA	LC-MS/MS
6. Thiamethoxam	ND	0.002	NA	LC-MS/MS
7. Thiodicarb	ND	0.005	NA	LC-MS/MS
8. Thiophanate Methyl	ND	0.002	NA	LC MS/MS

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an Understandigen	Phone No: 0	ao 23086100 edi	n 480/416 NA	LC-MS/MS
59. Trinclemition	Phone No: 0	0.005	NA NA	LC-MS/MS LC-MS/MS
59. Trisdemition 60. Triazophos	Phone No: 0	0.23086100 extr	NA NA NA	LC-MS/MS LC-MS/MS LC-MS/MS
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Abuve results relate only to the items/sample tested. This report shall not be reproduced except in fail without approval of this laboratory. ы

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## **6.Integrated Pest and Disease Management in Maize**

Сгор	Maize					
Thrust Area	Pest and disease incidence					
District Area / Avg. Yield	12580 ha / 52 q/ha					
Problems	Downy mildew and Turcicum le	eaf blight Ster	n borer incidence			
Technology demonstrated	Demonstration <i>Turcicum</i> leat tolerant hybrid: MAH-14-5	Demonstration <i>Turcicum</i> leaf blight and <i>Fusarium</i> Stalk rot tolerant hybrid: MAH-14-5				
	Seed treatment with Metalaxi for Downy mildew	l M + Mancoz	eb (4g/kg of seeds)			
	Spraying of Chlropyriphos (2m	I/ltr) for stem	borer.			
Source	UAS, Bengaluru	UAS, Bengaluru				
Parameters studied	Plant height, Cob size, Cob leng and <i>Turcicum</i> leaf blight incide	gth, % Stem bo nce, Yield, B:C	orer, Downy mildew Tratio			
Cluster Villages	Lingadahalli(P) and Seethakallu	u(T)				
Season	Kharif, 2019					
SMS	Plant protection					
Critical in	puts provided	Area (ha)	No. of Farmers			
Seeds-5 kg, Bio fertilizer-A Mancozeb-250g Chlropyri	MC 2.50kg, Metalaxyl+ iophos-250ml	2	5			

	Technology	Per o	cent Disease ncidence		Plant ht.	Avg.co b	Test weight	Seeds colour	
	Practices	TLB (%)	DM (9	%)	in cms	Length in cms	in gms		
Dem	nonstration	2.89	5.66	5	229.40	25.36	36.46	Orange Yellow	
Che	ck	18.89	28.79	28.79		21.46	34.56	Orange Yellow	
	a dictor deug - Lossa, autosas 🍸						1		
Te F	chnology Practices	Yield (qtls/ha)	% increase in yield	Co cult n i	ost of tivatio in Rs.	Total gross returns (Rs./ha)	Total No returns (Rs./ha	et B:Cra	atio
Dem	onstration	82.46	15 13	62	2100	145129	83029	2.33	3
Cheo	ck	71.62	13.13	63	3440	126051	62611	1.98	8
भाकृ ICA						Pr	rice: Rs.1,7	'50/qtl	N.H.J.TSMII.3

- 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.





### 7.Integrated Pest and Disease Management in Bhendi

		Station of the second	a read in		
Сгор	Bhendi				
Thrust Area	Pest and disease incidence				
District Area / Avg. Yield	175 ha / 16.5 t/ha				
Problems	Higher incidence of Bh	endi yellow ve	ein 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	Chikkadoddawadi and	Nagenahalli(T	)		
Season	Summer, 2019				
SMS	Plant protection				
Critical inputs pro	ovided	Area (ha)	No. of Farmers		
Seeds-2.5kg, Organic Manure-250 Vegetable special-1kg	kg, AMC-10kg,	2	5		

					2	W			
Technology Practices		Per ( Fusariı (%	cent Disease Incidence um wilt Yellow vein %) mosaic (%)		Incidence ellow vein nosaic (%)	Plant ht. in cms	Days to 50% flowerin g	Length of the fruit (cm)	
D	emonstration		3.66		4.66		132.2	48 DAS	14.60
C	Check 1		14	.66 27.84		146.6	55 DAS	12.36	
	Technology Practices	Y (qt	′ield Is/ha)	% incre in yie	ase Id	Cost of cultivatio n in Rs.	Total gross returns (Rs./ha)	Total Net returns (Rs./ha)	B:C ratio
X	Demonstration Check	2	12.6 86.6	13.93		58350 62360	170080 149280	111730 86920	2.91 2.39
( મ 1	कुअनुप CAR			16					*13-305 U-3114

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- Farmers' Feedback: Arka Nikitha hybrid performed very well and recorded higher yield(13.93%) than local variety.
- Low incidence of Fusarium wilt and Bhendi yellow vein mosaic.





#### 8. Integrated Crop Management in French Bean - Arka Arjun

Сгор	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 2019-20
Cluster	Tanganahalli, Rangapura & Badavanahalli
SMS	Horticulture

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





Tanganahalli









		Paramete	rs	Economics				
Particulars	No of pods /plant	Length of pods (cm)	Yield (t/ha)	% Increas e	Gross Cost (Rs	Gross Return ( Rs/ha)	Net Income ( Rs/ha)	B:C Ratio
Demo	34.30	14.48	7.65	21.04	36,450	1,53,000	1,16,550	3.20
Local	27.40	13.02	6.32	21.04	37,980	1,26,400	88,420	2.33



#### Price: : Rs.20 /kg

#### **Conclusion**



French Bean Arka Arjun was found to be more profitable with an additional income of भाकंअनुप 27,498 per ha as compared to Local during summer.

# 9. Integrated Crop Management in Chilli

Сгор	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 Harita -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 and Neem Soap @7 gm /lit					
Source	IIHR, Bengaluru					
Parameters studied	Plant height ( cm), No of fruits /p Incidence, Yield (t/ha)	olant, Fruit w	veight (g), Mosaic			
Cluster Villages	Neralakunte, Rangapura, Tangana	ahalli and Ku	mabarahalli			
Season	Late Kharif 2019					
SMS	Horticulture					
Critical in	al inputs provided Area (ha) No. of Farmers					
Seeds-30 gm, Bio fertilizer A Neem Soap-2 kg	01	05				



Demonstration plot –Kumabarahalli and Rangapura











Particulars		Pa	Parameters			Economics				
	Days taken to 50% flowerin g	No of fruits /plan t	Fruit weigh t (g)	Disea se Incid ence( %)	Avg Yield (t/ha)	% incre ased yield	Gross cost (Rs/ha)	Gross Income ( Rs/ha)	Net Income ( Rs/ha)	B:C Rati o
Demo	42.24	188. 70	4.45	16.24	22.49	26.70	57940	269880	211940	4.65
Control	49.40	168. 72	3.92	34.28	17.75		55920	213000	157080	3.80

Price Green chilli - Rs. 12 /kg

- Addl. yield of 5.22 t/ha, i.e. Rs. 56,000/- income (Green chilli)
- Farmers' Feedback: Arka Harita hybrid gives high yield and pungency, Less leaf curl incidence and fetches good price in the market compared to local.
- ✤ Harvested good quality fruits.







#### **10. 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 and low yield
Technology demonstrated	ARKA Archana : White colored flowers, more attractive than the local variety, each plant produces about 40 flowers. RDF : 63:100:75 NPK kg/ha, AMC : Drenching @ 20gm /lit (25 DAT), Neem soap : @ 7 g/lit
Source	IIHR Bengaluru
Parameters studied	No of flowers, Flower weight (gm), Yield (t/ha)
Cluster Villages	Badavanahalli, Rangapura, Chikkahalli
Season	Rabi/Summer, 2019-20
SMS	Horticulture

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

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Demonstration plot at Chikkahalli Tumkur











R-I

Particulars	Parameters			Economics				
	No of Flowers /plant	Flower Diamete r (cm)	Yield (t/ha)	% Increase	Gross Cost (Rs/ha)	Gross Return ( Rs/ha)	Net Income ( Rs/ha)	B:C Ratio
Demo	35.12	4.57	7.26	10.33	34,320	1,30,680	96360	3.80
Local	32.88	4.24	6.58		36,850	1,18,440	81590	3.21

Price Rs. 18 /kg

- 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 (4.6 days)




### **11. Demonstration of Aromatic crop- Lemon grass – Krishna**

CALMAN VE	
Сгор	Lemon Grass
Thrust Area	HYV
Problems	Erratic rainfall and delayed monsoon, high temperature and reducing ground nut area
Technology demonstrated	Krishna variety: Medium tall, high tiller and herb with high oil yielding Citral type High yield of bio mass (25-28 Mt/ha) with high oil yield (230-250 kg/ha). Suitable for plains. FYM : 10 ton / ha, No. of Slips : 25000 /ha, RDF: 250:100:60 NPK kg /ha.
Source	CIMAP Bengaluru
Parameters studied	Growth parameters, herbage and oil yield
Cluster Villages	Neralakunte Pavagada
Season	Rabi/Summer, 2019-20
SMS	Horticulture

	Critical inputs provided	Area (ha)	No. of Farmers	
X	Lemon grass Slips – Krishna ( CIMAP)-25000	01	05	11
भा 1	Nos			し、

### **Results 2019-20**

Particulars	Parameters			Economics			
	No of tillers /plant	Herbage yield (t/ha)	Lemon grass oil yield ( kg)	Gross Cost (Rs/ha)	Gross Return ( Rs/ha)	Net Income ( Rs/ha)	B:C Ratio
Krishna	27.44	13.93	115.40	47573	115400	67827	2.42



Demonstration plot at Neralakunte







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### 12. Demonstration of Aromatic crop- Palmarosa- PRC1

	Crop	Palmarosa			
-	Thrust Area	HYV			
	Problems	Erratic rainfall and delayed monsoon, high temperature and reducing ground nut area			
	Technology demonstrated	PRC-1: High tall, high tiller and herb with high oil yielding Oil yield - 400 q/ha; Oil yield -225 kg/ha, geraniol 75-80%. Suitable for plains. FYM : 10 ton / ha, Seeds: 2.5 kg/ha, RDF: 60:50:40 NPK kg/ha.			
	Source	CIMAP Bengaluru			
	Parameters studied	Growth paramete	ers, herbage and oil y	ield	
	Cluster Villages	Neralakunte Pava	gada		
	Season	Rabi/Summer, 20	19-20		
	SMS	Horticulture			
	Critical inputs pr	ovided	Area (ha)	No. of Farmers	
X	Palmarosa seeds – PRC-1 2.5 kg /ha	(CIMAP)	01	05	

भ 1

Results 2019-20									
Particulars	Para	meters		Economics					
	No of tillers /plant	Herbage yield (t/ha)	Palmrosa oil yield ( kg)	Gross Cost (Rs/ha)	Gross Return ( Rs/ha)	Net Income ( Rs/ha)	B:C Ratio		
PRC-1	12.23	32.4	132.50	52838	185500	132662	3.51		
		A				Price Rs	. 1400 /kg		
	Demonstrat	ion plot at N	eralakunte	KD					
HIC									

#### **13.Demonstration of Fodder Sorghum CoFS 29**

#### Season: Kharif, 2019

#### Cluster: Tanganahalli,Koratagere & Kodigenahalli, Tumakuru

No. of Demonstrations: 5 Area : 2.5ha







Parameters: Fodder Yield, No. of Tillers, Milk Yield (Before & After)



### 14.Demonstration of Marvel grass (Dichanthium annulatum)



#### Season: Rabi, 2019

No. of Demonstrations: 5 Area : 2.5ha









#### Cluster: Tanganahalli,Koratagere & Kodigenahalli, Tumakuru



#### **15.Demonstration of Hybrid Napier**

#### Season: Kharif, 2019

#### Cluster: Tanganahalli,Koratagere & Kodigenahalli, Tumakuru

No. of Demonstrations: 5 Area : 2.5ha







Parameters: Fodder Yield, No. of Tillers, Milk Yield (Before & After)



## **16.Demonstration of Finger millet Variety KMR 340 for Value Addition**

Сгор	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	KMR-340: white Ragi variety
Demonstrated	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
DFI Villages	Kumbarahalli(sira), Tanganahalli (Koratagere) and Rangapura (Madugiri)
Season	Late Kharif 2019
SMS	Home Science

Critical inputs provided	Area (ha)	No. of Farmers
KMR-340 seeds-5kg, Packing materials-5kg and Labels-400nos. per demo	4	10

#### **Results 2019-20**



Pai	rticulars	Plant Height (cm)	No of Ear heads(Nos)	Fingers/ear head (Nos)	Test Weight (gm)	Straw Yield (t/ha)
Demo		119.40	6.40	7.50	21.92	5.28
Check		111.32	4.80	5.88	16.20	4.92

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Particulars	Yield (q/ha)	% Increase	Gross cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	BCR
Demo	24.20	23 46	35,680	88,600	50,920	2.48
Check	19.60	23.40	33,480	53,980	20,500	1.61

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
	tacion historia de la composición de la composi			Mig. Date 1 Dest before 1 Man	And the state of t





# Conclusion

- Farmers' Feedback: Yield of KMR-340 variety was 23.46 % 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.





## 17.Demonstration of Foxtail millet Variety DHFt109-3 for Value Addition

Стор	Foxtall millet
Thrust Area	Value addition
Problems	Reduction in area under minor millets due to lack of knowledge on nutritional value and non availability of processing units
Technology	DHFt 109-3: Foxtail millet variety
Demonstrated	Value addition:Cleaned Foxtail, Diabitic mix and Upama mix
Source	UAS, Dharwad
Parameters studied	Yield parameters, economics , BCR, Consumer Acceptability & Market linkage
DFI Villages	Kumbarahalli(sira), Tanganahalli (Koratagere) and Rangapura (Madugiri)
Season	Late Kharif 2019
SMS	Home Science
2000 KILLS NUN	

Critical inputs provided	Area (ha)	No. of Farmers
DHFt 109-3 foxtail variety seeds-5kg, Packing materials-5kg and Labels-400nos. per demo	4	10
materials-5kg and Labels-400nos. per demo	Т	

### **Results 2019-20**



Particulars	Plant Height (cm)	No of Ear heads(Nos)	Straw Yield (t/ha)
Demo	124.20	5.90	2.68
Check	119.80	5.08	2.14











Particulars	Yield (q/ha)	% Increase	Gross cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	BCR
Demo	15.60	20.93	27,300	51,340	24,040	1.88
Check	12.90		25,800	42,280	16,480	1.63









# Conclusion

- Farmers' Feedback: Yield of DHFt109-3 variety was 20.93 % more compared to check.
- Value addition to DHFt 109-3 variety will be done during 2020





#### **EDP: Tamarind: Value Addition, Branding and Market linkage**

<ul> <li>Problem:</li> <li>➤ Lack of knowledge on processing and value addition, low income</li> </ul>	Dist. Area	Dist. Avg. Yield	Potential Yield
	3310 ha	4.4 t/ha	5.34 t/ha
<b>DFI Strategy:</b> Value chain development and			



#### Technology: IIHR (B)

market linkage

Demonstration on preparation of value added products (tamarind powder, tamarind thokku and tamarind Lollipop









Demos: 03 Villages: Kumbarahalli (S), Tanganahalli(K) Kodigenahalli (T)

Scientists – HS, Horti & SS

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- Quantity of different value added products
   PCP
- BCR
- consumer acceptability
- Income





# 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, 2019-20
Area and No. of Demonstrations	30 ha and 75 Nos.
SMS	Plant Protection

17



#### Results of 2018-19

1	All a state			RESAL		-				A Provention
Details	Height	Avg.	Avg.	Test	Yield	%	Gross	Gross	Net	B:C
of	of the	No. of	No. of	weigh	Per	incre	Cost	Return	Retur	ratio
technolo	Plant in	pods	seeds	t	ha	ase in	In Rs.	S	ns	
gy	cms	per	per	In	In	yield		In Rs.	In Rs.	
S. A.W.		plant	pod	gms	qts					
Demo	164.6	141	5.56	13.40	10.68	19.14	25510	61944	36434	2.43
plot										
Control	151.7	128	4.88	10.80	8.64		26611	50112	23501	1.88



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BRG-5 was recorded higher yield up to 19.14% over the check variety.

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

2

Сгор	Groundnut
Thrust area	HYV
Variety	К-б
Area & Yield of District	1.20 lakh ha, 7-8 qt/ha,
Problem	<ul> <li>Use of old Local variety</li> <li>High incidence of pests and diseases</li> <li>Less yield</li> </ul>
Technology to be demonstrated	Demonstration of K-6 Variety
Source of Technology	UAS, Bengaluru
Parameters to be taken	Yield and Economics
Season	Kharif, 2019-20
Area and No. of Demonstrations	20ha and 50 No,s
SMS	Plant Protection

### **Results of 2017-18**

				MARCH CONTRACTOR			
Details of	Stem rot	Yield	%	Gross	Gross	Net	B:C
technology	incidence	Per ha	increase	Cost	Returns	Returns	ratio
	in %	In qts	in yield	In Rs.	In Rs.	In Rs.	
Demo plot	6.66	10.71	23.95	23309	54513.9	31204.9	2.33
Control	12.34	8.64		22228	43977.6	21749.6	1.97







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



# Training of farmers and Extension Personnel





## **Training programmes conducted**

Category	Category Subjects N							
			participants					
Farmers and Farm	Crop Production	03	90					
women	Production technologies in	07	194					
	Horticulture							
	Plant protection	4	130					
	Soil and nutrient management	21	731					
	Value Addition	1	20					
	Animal Husbandry	1	102					
Rural Youth	Mushroom Cultivation	2	31					
	Beekeeping	2	67					
Extension	Nutritional Garden / Production	2	60					
functionaries	Technique							
	Dry land Horticulture	1	126					
	Drought Proof Technology	1	40					
	Total	45	1591					





# **Training Activities (2019)**



Advance Production Technologies in Horticulture, 2nd Aug, 2019, at Midatarahalli, Madhugiri





Work shop on "Nutri - Garden" for Krishi Vigyan Kendras' Scientists on 5th Aug 2019.



Training programme on technologies, June 11th, 2019

Drought p



# **Training Activities (2019)**











# Extension Activities for Awareness Creation





## **Extension Programmes**

Nature of	No. of	No. of Pa (General	articipan	ts	No. of	Particip ^r	Participants No.			on
Extension Programme	Progra mmes	Male	Female	Total	Male	Femal e	Total	Mal e	Female	Total
Field Day	3	700	150	850	210	120	330	35	12	47
Kisan Mela								129		
	8	24549	9038	33587	2000	200	2200	2	155	1447
Kisan Ghosthi	3	487	142	629	0	0	0	27	4	31
Exhibition	5	1598	447	2045	6	8	14	51	20	71
Film Show										
Method										
Demonstrations	3	6	3	9	1	1	2	0	0	0
Farmers Seminar	4	152	43	195	0	0	0	7	14	21
Workshop										
Group meetings	3	45	5	50	5	1	6	7	2	9
Lectures										
delivered as										
resource persons	13	2966	996	3962	25	33	58	130	63	193





## **Extension Programmes**

Nature of	No. of	No. of ((	[:] Particip General)	ants	No. of	f Partici _l SC / ST	pants	No.of extension personnel		
Programme	mmes	Male	Female	Total	Male	Femal e	Total	Mal e	Female	Tota I
Advisory				·						
Services	53	2794	530	3324	186	134	320	285	155	440
Scientific visit to										
farmers field	42	156	31	187	55	24	79	7	4	11
Farmers visit to										
KVK										
Diagnostic visits	36	110	19	129	12	3	15	13	5	18
Celebration of										
important days										
(specify)	7	246	65	311	0	0	0	55	13	68
Any Other										
(Specify)										
Bimonthly										
Meeting	2	0	0	0	0	0	0	75	40	115
Total	182	33809	11469	45278	2500	524	3024	1984	487	2471
										6



Nature of	Date(s)	No. (C	of farme General)	ers	No. of farmers SC / ST			No.of extension personnel		
Extension Programme	conducted	Male	Femal e	Total	Mal e	Fema le	Tota I	Male	Fem ale	Total
Jal Shakti	24.08.2019	600	150	750	0	0	0	10	6	16
Abhiyan	28.08.2019	600	200	800	0	0	0	10	4	14
Fertilizer Use	22.10.2019	102	38	140	0	0	0	0	0	0
Awareness Campaign										
National Animal	11.09.2019	78	20	98	0	0	0	15	5	20
Disease Control										
Programme										
<b>Tree Plantation</b>	17.09.2019	27	0	0	0	0	0	4	0	0
Campaign										







#### PM Programme telecast



#### Method demonstration





JSA Programme, Madhugiri





#### **Environmental Day**

Field Day



Field visit











Hindi Workshop



Yoga Day









#### TN farmers' visit (ATMA)







Awareness programme for farmers on proper use of fertilizer, 22nd October 2019

Mass Tree Planting and Kisan Goshti on 17th September 2019 (Birthday of PM)



Workshop on Permaculture at KVK Hirehalli from 23-26 Sept., 2019





## **Other Extension Activities**

SI. No.	Nature of literature/publications/ Activities	No. of Copies/Programmes
1	Technical bulletins	1
2	Popular articles – Local language	2
3	Extension literatures	4
4	Book	1
5	Research Abstracts	7
	TOTAL	15

S. No.	Type of media	Title
1	CD / DVD	ICAR-KVK Hirehalli : A glance
2	Social media groups with KVK as Admin	eHorticulture Whatsapp Group
3	Facebook account name	iihrkvk
		https://www.facebook.com/iihr.kvk
4	Twitter	https://twitter.com/iihrkvk
5	Instagram account name	kvkiihr





#### **KVK-Network Portal**



Tumakuru	2:	Past	<b>Events</b>
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S.No	Event Name	Event Date (mm/dd /yyyy)	
1	Kisan Sanman Nidhi	2/24/2019 To 2/24/2019	
2	Field Day on "Improved IIHR Technologies"	2/15/2019 To 2/15/2019	
3	9th SAC meeting of KVK Hirehalli	2/11/2019 To 2/11/2019	
4	Training programme on beekeeping		
5	Skil Training Programme on Mango Growers	1/21/2019 To 2/14/2019	
6	Skill Training Programme on Friends of Coconut Tree	1/21/2019 To 2/14/2019	
7	NATIONAL FARMERS' DAY 2018 (KISAN DIWAS – LATE SHRI. CHOUDHARY CHARAN SINGH JAYANTI)		
-	Sri Mallikariunaiah and Sri Gopalaiah from Badavanahalli. Madhugiri, Tumakuru District were felicitated by Dr.M.R.Dinesh Director ICAR IIHR Bengaluru	12/23/2018 To	





41 events covered so far
#### **Kisan Mobile Advisory Services**

#### SMS PORTAL FOR FARMERS

USER CONTROL PANEL

Welcome to the SMS Portal for the Farmers and other stake-holders in the field of Agriculture. With a possible expandability to morpotential outreach to 127.3 million farm families in their respective languages, this Portal is possibly among the biggest such ICT in # Read more...

Present Role



Dr. LOGANANDAN

iihrkvk@gmail.com Programme Coordinator

General AGRICULTURE

Name

Designation Specialisation

Sector AGRICULTURE Verification Status User Activated

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

Topics	Numbers
Crops	41
Awareness	31
Marketing	2
Total SMS sent	74
No. of farmers covered	22820





## **News paper Coverage**

#### ಕಣ್ಣರೆಯಾಗುತ್ತಿರುವ ಕಲ್ಲು ಬಾವಿಗಳು

ರೈತನ ಒಡನಾಡಿಯಾಗಿದ್ದ ಕಲ್ಲು ಬಾವಿಗಳ ಬಿನೇವನೆ ಕಣರೆಯಾಗುತ್ತಿದ್ದು, ಆ ಸಾನವನ್ನು

ಪಾಲಿಥೀನ್ ಹೊದಿಕೆಯ ಕೃಷಿ ಹೊಂಡಗಳು ಆಕ್ರಮಿಸಿಕೊಳ್ಳುತ್ತಿವೆ. ರೈಶನ ಒಮೀನಿಗೆ ನೀರುಣಿಸಿ ಕಾಮಧೇನು ಪಾಗಿದ್ದ ಕಲ್ಲಿನ ಬಾವಿಗಳು ಇಂದು ಖಾಲಿ ಖಾಲಿ. ಉರ್ಡಿಗೆರೆ ಗ್ರಾಮಾಂತರದ ನಾನಾ ಭಾಗಗಳಲ್ಲಿ ಬೇಸಿಗೆಯ ಬರು ಬಸಿಬ ನಧಾನವಾಗಿ ಎರುತ್ತಿದ್ದು ಅಲ್ಲಕ್ಷಲ್ಪ ನೀರಿದ್ದ ಕರಕಟ್ಟೆಗಳು ಒಣಗುತ್ತಿವೆ. ಸುಮಾರು 3-ದಶಕಗಳ ಹಿಂದ ಪ್ರತಿ ರೈತ ತನ ತೋಟಕ್ಕೆ



ನದು ಕಾಲುಂಬ್ರಾಪಾರು ತಪ್ಪು ರಾಗ್ ಕಾರ್ಪಾಡ್ಯರು ಅಶ್ವ. ಪ್ರದೇಶ ಪಾಲುವುತ್ತದೆಂದು ಮಕ್ಕಾರು ಭಗ ಹಾರಿಗೆ ಹೃತ ಚನವಿದೆ ಖಾಲಿಕ್ಷಿಗಳು ಪ್ರಥಮಿಗೆ ಮತ್ತುಗುವುದೆ ಸುಮಾರು 10-30 ಹುದಿರೆ ನೀರು ತುಲುರುತ್ತದೆ, ಆದರೆ ಇಂದು ಕೆಟ್ಟಿಗಳಿತು ಕ್ರಭವಾಗಿಗರು ಬಗುದ್ ಕಾರ್ಣ ಡೆ. ಮೆಕ್ಟರಲ್ಲಿ ಮಾಡುವುದು ಮವವು ಬಾವಿಗಳಲ್ಲಿ ನೀರುವು ವಿರುದಯವುದಾಗಿದೆ. ಕ್ಷಮ ಹೊಂದ, ಕಟ್ಟಿಗಳನ್ನು ಕ್ಲಮ ಹೊರೆದು 2 ಸಮವರುವದೆ ಸಹಾದುರ ಈ ಕೆಲ್ವ ತುಂದ ವಿರುದಯವುದಾಗಿದೆ. ಕ್ಲಮ ಹೊಂದ, ಕಟ್ಟಿಗಳನ್ನು ಕ್ಲಮ ಹೊರೆದು 2 ಸಂಪತ್ತಿರುವರು ಮಾಡಿ, ಇವಕ್ಕೆ ಸರಿಕಾರ ಸಹಾದುರ್ಥ ಸುಮಾರು 7-8 ಅಳುದ್ದ ಸಂಪೂರ್ಣ ಕಲ್ಲಿ ಲಕ್ಷ ಲೀಟರ್ ಸಾಮರ್ಥ್ಯ ಹೊಂದಿರುವ ವಾಗುತ್ತಿದೆ. ಇಲ್ಲಿಂದ ಇಳಿಜಾರಿಗ ಮೂಲಕ ನಿರದ ಬಾವಿ ಕೆಟ್ಟಬ ಸುಮಾರು 6 ತಿರ್ಗಳ ಪಾಲಿಕ್ಷಣ್ ಕಿಚ್ ಅದ್ದೆ ಕೆಟ್ರಿಯ ಪೂರ್ಣ ಅಥವಾ ಪ್ರೋ ಸಾಹುದುಂದ ನೀರವು ಸುಮಾದ ಚಿಕ್ಕಲ್ಲಿ ಕಲ್ಲಿಕೆ ಬಾತಿ ಟ್ರಾಲಿ ಕೆಲ್ಲಾನ ಮತ್ತು ಸುಪುರಿತೆ 4 ಬಗ್ಗಳು ಸೋಟಗಳು ಹೆಬ್ಬಾಗಳು ಹೆಬ್ಬಾಗಳು ಹೆಬ್ಬಾಗಳು ಹೊಂಡ ಸುಮಾರು 10-20 ಬನರು ಬಗ್ಗಳನ್ನು ಹೊಡಿಸಿ ಅವರಲ್ಲಿ ಕೊಳವೆ ಡಾವಿ ನೀರು ನೀರುಗಳುವ ವೃಷ್ಣಕ್ರಮನ್ನು ಕೊಡ ದ್ದರು. ಇಷ್ಟೆಲ್ಲಾ ಕ್ರಮ ವಹಿಸಿ ಕಟ್ಟದ ಬಾವಿಗಳು ಹರಿಸುವ ವ್ಯವಸ್ಥೆ ಮಾಡುವುದರಿಂದ ನೀರು ಕಂಡುಕೊಂಡಿದ್ದಾನೆ



ನೀರಿನ ಲಭ್ಯತೆ ಎಲ್ಲಾ ວັບທູ ຫເປັນສູ້ສຽ. ຫຍ a for a local a ಕಳೆದಂತೆ ಕೊಳವೆ ಬಾವಿಗಳ ಅತಿಯಾದ ಬಳಕೆಯ ಪರಿಣಾಮ ಅಂತರ್ಜಲ ಪದರ ಕುಸಿದು ಬಾವಿಗಳಲ್ಲಿ ನೀರಿನ ಲಭತೆ ಇಲವಾಗಿದೆ. - undes, o'h su, o'h Duss ಕೇಂದ್ರ ಹಿರೇಹಲ್ಲಿ ಮಮಗೂ



## ಮಾದರಿಯ ತಂತ್ರಜ್ಞಾನಗಳನ್ನು ಬಳಸಿಕೊಂಡು

ವುದರಿಂದ ಕೃಷಿಯಲ್ಲಿ ಆರ್ಥಿಕವಾಗಿ ಆಧವೃದ್ದಿ ಯಾಗಲು ಸಾಧ್ಯವಾಗುತ್ತದೆ ಎಂದು ಹಿರೇ ಹಳ್ಳಿಯ ಕೃಷಿ ಎಜ್ಜಾನ ಕೇಂದ್ರದ ವಿಜ್ಞಾನಿ ಡಾ ಜಗದೀಶ್ ಅಭಿಪ್ರಾಯಪಟರು. ಗಾವಣಗಗನ ಕೋರ ಸಾಮದಲ್ಲಿ ಸನಿವಾದ ಜಿಲ್ವಾಡಳಿತ, ತಾಲೂಕು ಅಡಳಿತ, ಕೃಷಿ ಇಲಾ ವೆಯಿಂದ ಷಮಿಕೊಂಡಿದ ಇಲಾಖೆಗಳ ನಡಿಗ ರೈತರ ಮನೆ ಬಾಗಿಲಿಗೆ ಸಮಗ್ರ ಕೃಷಿ ಅಭಿಯಾನ ಕಾರ್ಯಕಮದಲ್ಲಿ ಮಾತನಾಡಿದ ಅವರು ದ್ರಿಗುಣವಾಗುತ್ತಿರುವ ಕೃಷಿಯನ್ನು ಹೆಚ್ಚಿತಲ. ರೆತರು ಹೊಸ ಆವಿಷಾರ ಹಾಗೂ ಹೊ

ವಿಕ ಸುದ್ದಿಲೋಕ ತುಮಕೂರು ಗ್ರಾ

ಕ ಎಯಲಿ ಹೊಸ ತಂತಜಾನ ಆಳವಡಿಸಿಕೊಳ

ವಾಗಿ ಅಭಿವೃದ್ಧಿ ಹೊಂದಲು ಸಾಧ್ಯವಾಗುತ್ತದೆ ಉದ್ಘಾಟಿಸಿದ್ದರು ವಿಜ್ಞಾನಿ ಡಾ.ಜಗದೀಶ್, ಡಾ.ಬಾಲಕ್ಷಿಷ್ಠ ಮತ್ತಿತರರು ಇದ್ದರೆ. ಎಂದರು. ಸಿಗುವ ವರ್ಭಗಳನು ಬಳಗಿಗ

ಎಂದರು. ಮಿಂದ ಮೊದಲಿಯ ದಿಳಿಗಳನ್ನು ದೈತರು ಕಮಾಲಕ ತಳಿವರು. '' ಗುರು ಪರ್ಭಗಳಲ್ಲಿ ಬಳಿತಿಯಿಂದ ಸಾಹ ಯಶ ಬಗ್ಗೆ ಕ್ಷಣಿಯ ಮಹಿತ ಬಳಬಾರು. '' ಕೆರೆಯ ಒಂದೇ ಮೊದಲಿಯ ದಿಳಿಗಳನ್ನು ದೈತರು ಕಮಿತಿ ಗೊಡಲಿದ್ದ ಬೆಳೆಯುವರೆಡುವೆ ಗೊಟ್ಟಡನ್ನು ಸೆರುವರು ಕ್ಷಿತಿಗೆ ಮತ್ತು ಕೊಡಲು ಅತಮಲ್ ಬೆಳೆಯುವುದರುವ ಪತ್ತು ಅಯಲವೆಗಳೊಂದೆ ಹೆಚ್ಚುದು ಮಾಡುತೆ ಸುರಿದ್ದ ಮತ್ತು ಸೆರುವರು ಮೈತ ಪ್ರದೇಶದ ಮತ್ತು ಕೊಡಲು ಸುರ್ದಿ ಮತ್ತು ಮೊದಲ ಗುತ್ತದೆ. ಹಾಗಾಗಿ ಹೆಚ್ಚು ಬೆಳಗಳನ್ನು ಬೆಳೆಯುವ ತಲಸು, ಮಹತ ಸೆರುವಂಡ ತುಡುವರು ಡೆಸೆ ಪ್ರದರುವ ಹೆಚ್ಚು ಸಿರುವರು ಸುರ್ದಿ ಮತ್ತು ಮತ್ತು ಸೆರುತಗಳು ಸಹಿತಿಯ ಅವರು ಹುಡುವಳ ಹೆಚ್ಚುತ್ತೆ ಆ ಅನವಹಿತಿಗಳಲ್ಲಿ ಬೆಳೆಯುವ ಎಂದರುವ ಕುಡುವರು ಡೆಸೆ ಪ್ರದರುವ ಹೆಚ್ಚು ಸಿರುವರೆ ಮತ್ತು ಸೆರುತಗಳು ಸಹಿತಿಯ ಅವರ ಪ್ರದೇಶ ಮಾಡಿಗಳು ಬೆಳೆಯಲ್ಲಿ ಮತ್ತು ಸೆರುತಗಳು ಎಂದರು. ಮೂಲಕ ಮನ್ನೆ ಕೈಷಿ ಅನವರಿತಿಕೊಳಿಸಿದೆ. ಗಾದ. ಅವರದಾದ 20 ನಡೆದರಾದ ಬರುಗು ಕ್ಷೇತ್ರ ಮನೆಯು ಸಮಯಕ ಬರೇಕ್ ಕ್ಷಾಣ ಉರ್ಗಾರ, ಕೂಡುಂಬಾ ರಾಜಕ ರಾಜಕೆಗಳಲ್ಲಿ ಕೈಷಿ ವಿಧಿಟಿಸಿಗಳು ವರ್ಷದೆ ತೋಡುಗಳಿದು ಹೇಗಳು ಪ್ರತಿಯಾಗಿದೆ. ಈ ಮಾಡುವ ಕೊಡಿಗಳು ಸಮಯಕ ಬೇಗಳಾಗೆ ತನಾ ಯತ ಬೇಗಳಾಗಿ ಹಾ ಯಾಗ ಪ್ರಾಧಾ ಬೇಗಳುವು ಗೇರಿಯ ಪ್ರತಿಯತ್ನು ಕ್ಷೀಪಿಸಿದುವರುವುದೇ ತೆರೆಗಲೆ ಪ್ರತಿ ಮೊದಲು ಸಿದ್ದು ಬರುಗಳು ಸಾಹಿತಿಗಳುವುಗೆ, ಕೊಡುವು ರಾಜಕಿಯ



ಕೃಷ್ಠಿ ಅಭಿವೃದ್ದಿಗೆ ಹೊಸ ತಂತ್ರಜ್ಜಾನ ಅಗತ್ಯ

ಕೋರಾ ಗ್ರಾಮದಲ್ಲಿ ಇಲಾಖೆಗಳ ನಡಿಗೆ ರೈತರ ಮನೆ ಬಾಗಿಲಿಗೆ ಮತ್ತು ಸಮಗ್ರ ಕೃಷಿ ಅಭಿಯಾನ

ಕೋಟಗಾರಿಕೆ ಇಲಾಖೆ, ನರೇಗಾ, ವಶು ಇಲಾಖೆ ಕ್ಷಷ್ಟ ಮಾಡಿದಾಗ ಮಾತ್ರ ಕಷ್ಟಿಯಿಂದ ಅರ್ಥಿಕ ಬಾಗಿಲಿಗೆ ಸಮಗ್ರ ಕೃಷಿ ಅಭಿಯಾನ ಕಾರ್ಯಕ್ರಮವನ್ನು ಕೋರ ಗ್ರಾಪಂ ಅಧ್ಯಕ್ಷ ನಬೇರ್ ಅಹಮದ್ ಎಸ್ಬಿಐ ಬ್ಯಾಂಕು ಸೇರಿದಂತೆ ಹಲ ವಾರು ಾಲಾಖೆಗಳು ತಮಲ್ಲಿ ಲಭವಿರುವ ಸೌಲಭಗ ಸಿಗುವ ವಸುಗಳನು ಬಳಸಿಕೊಂಡು ಸಾವ ಯವ ಬಗ್ಗೆ ರೈತರಿಗೆ ಮಾಹಿತಿ ನೀಡಿದರು

ಮೆಣಸಿನಕಾಯಿ ಬೆಳೆ ಕ್ಷೇತ್ರೋತ್ರವ



ಮಧುಗಿರಿ ಬಡವನಹಳ್ಳಿ ಮಲ್ಲಿಕಾರ್ಜುನಯ್ಯ ಅವರ ತೋಟದಲ್ಲಿ ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಹಿರೇಹಳ ಹಾಗೂ ಮಧುಗಿರಿ ಬಡವನಹಳಿ ಸುವರ್ಣಮುಖ ಸೌಹಾರ್ದ ಸಹಕಾರ ಸಂಘವ ಸಹಬೋಗದೊಂದಿಗೆ ಮಣಸಿನಕಾಯ ಬೆಳೆ ಕೇತ್ರೊತ್ವ ನಡೆಯಿತು

ಡಾ. ಮಾಧವ ರೆಡ್ಡಿ ಮಾತನಾಡಿ, ಹೆಚ್ಚು ಇಳುವ . ಎಕ ಸುಡಿಲೋಕ ತುಮಕೊದು ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಹಿರೇಹಕ್ಕ ಹಾಗೂ ಮಧುಗಿರಿ ಕೊಡುವ ಹಾಗೂ ರೋಗ ತಡೆದು ಕೊಳ್ಳುವ ಸಂಕರಣ ಸುವರ್ಣಮುಖ ಸೌಹಾರ್ದ ತನಿಯಾದ ಆರ್ಕಾ ಹಾಗೂ ಮೆಣಸಿನಕಾಯ ಸಹಯೋಗದೊಂದಿಗೆ ಬೇಸಾಯದ ಮಾಹಿತಿಯನ್ನು ರೈತಂಗೆ ನೀಡಿದರು. ಸಂಘದ ಈ ಸಂದರ್ಭದಲ್ಲಿ ಸುವರ್ಣಮುಖ ಸೌಹಾದಕ ಚಿಳೆಯಲ್ಲಿ ಕ್ಷೇತ್ರೊತ್ಸವ consingents ಸಹಕಾರ ಸಂಘದ ಅದೃಕ್ಷ ಗೋಪಾಲಯ್ಯ ಹಾಗೂ ಉಪಾಧಕ್ಷ ಒನವಾಗಿಡ, ಕೃಷ್ಣಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರದ ಕಾರ್ಯಕಮ ಬಡವನಹಳ್ಳಿ ಮಲ್ಲಿಕಾರ್ಜುನಯ್ಯ ಕವರ ತೋಟದಲ್ಲಿ ನಡೆಯಿತ ಕ್ಷಷ್ಟಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಎನ್. ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನಿ ಡಾ. ಜೆ.ಎಂ. ಪ್ರಶಾಂತ, ಕೃಷಿ ಲೋಗಾನಂದನ್. ಕೇಂದ್ರದ ಕಾರ್ಯ ಚಲುವಟಿಕೆಯ ಎನ್ಡರಣಾ ವಿನ್ಯಾರಿ ಡಾ. ಕೆ.ಎನ್.ಜಗವಿಗಳ ಸೇರಿದಂತೆ ಬಗ್ಗೆ ಮಾಹಿತಿ ನೀಡಿದರು. ಜೆಂಗಕೊರ್ದು ಭಾರತೀಯ ಸಿದ್ದೆಸರು ಮತ್ತು ಪ್ರಗತಿಸರ ಪ್ರತಿಂ ೋಟಗಾರಿಕಾ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ ಪ್ರಧಾನ ವಿಜ್ಞಾನಿ ವಾಗವಹಿಸಿದರ

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ರತ ರವೀಶ್ ತಮ ಸೋ ಸುಪ್ರ, ಜೀವ ಭ್ರತನ್ನ, ಕುನಾಪಹಿಲ, ಜೀವ





ಈ ಹಿಂದೆ ತೆಂಗು ಬೆಳೆಗಾರರು ಸಾಕಷ್ಟ

ಹೆಕೇದ್ ಗಟಲೇ ದೊಮಿ ಇಟುಕೊಂ ದ್ದರು. ಹಚ್ಚು ತಂಗು ಬೆಳೆದು ಬದುಕು

ಡೆಸುತ್ತಿದ್ದರು. ಆದರೆ ಇತ್ತೀಚಿಗೆ

. ಶಸ್ 1 ಆಹವಾ 2 ಎಕರೆ ಹೊಂದಿದಾರೆ

ಾಂದಿನ ಸಮಸ್ಯೆ ಗಳಿಂದ ಇರುವ

ಗಿಂಗವನ್ನೂ ಸಾಕ್ಷಿಗೆ ಪಡೆಯುಗೇ ವಹ

ಆನುಭವಿಸುತ್ತಿದ್ದಾರೆ. ಸಣ್ಣ ಪ್ರಮಾ

ಯೂ ವಿಭಾಗವಾಗಿದೆ. ಇದರಿಂ



#### ತುಮಕೂರಿನಲ್ಲಿ ನಡೆದ ಅಡಕೆ ಸಮಾವೇಶದಲ್ಲಿ ಹಕ್ಕೊತ್ತಾಯ । ವಿದೇಶಿ ಆಮದಿಗೆ ವಿರೋಧ ಅಡಕೆ ಬೆಳೆಗಾರರ ಮೇಲಿನ ಪ್ರಹಾರ ನಿಲ್ಲಲಿ . ವಿಕ ಸುದ್ದಿಲೋಕ ಸುದುಗೂರು ವಿರೆಣಗಳಿಂದ ಕಳೆಮಾರ್ಗದಲ್ಲಿ ಬರುವ ಆಡಕ್ **B** ..... ಎಂದು ಮಾರ್ ಗೆಡುಪ್ರಕಾರವಾಗುತ್ತಿದ್ದ ಇದಕ್ಕೆ ಸರಕಾರ ಕರವಾಣ ಪಾಕಿಬಿಕೆಂದು ತುಸದ ಜಿ.ಎಸ್. ಬಸವರಾಜು ಅಗಡಿಸಿದರು. ಕಂಪತ ತುಮಕೂರಿನಲಿ ವಿಜಯಾ molectel under data

day buretectoristed and the desired dely ಆದುದಿಗೆ ಕಡಿವಾಣ ಪಾಕಲು ಸಿದರು. ಹಿರೇಪನ್ ಬಂದಿದೆ. ಆದರೆ ಬೆಲೆ ಕಾಯುಕೊಳುವುದಕೆ ಮಾದುಸಾಮಿ "ಕಸಿ ಉಪನೇ Song front termore to ಅಂದೋಲನದ ರೀತಿಯಲ್ಲಿ ಹೋದಾವಿ ಅಗಬೇಕು. 'ನನ್ನು ಕೃಷಿ ಉತ್ಪನಗಳ ಬೆಲೆ ಶಿರ್ಚಿಕ ಕಾಣಲಾರುಂಬಿತು. ಪ್ರಶಾಂತ್ ಹಿ.ಎ., ಅಲ್ಲವ ದ್ಯಾದ್ಯ 24 ಸಂಶಸ್ ನಚಿತ್ರದ ಶ್ರೇ 7 ಸದಕ್ಕರಿ ಅವತೆ ಹಾಗಾಗಿ ಈ ಬಗ್ಗೆ ಕೇಂದ್ರ ಹೊಡಲನೆ ಸುವಿ ನರ್ಮಿದಾ ಕುಂಡರೆಗಳುಕ್ಕೆ ರೆಮರ್ -ಪ್ರದೇಶವರ್ಣಗಳಲ್ಲಿ 2 ಉಳಿದವರು ಈ ಬಗ್ಗೆ 7 ಸಿಹಾಯರ್ ಆವರ ಗಮಗಳ ಶ್ರೇವರ ಮೂಲ ಕ್ರೀತ್ರ ಕುಮರ್ ಉಪತ್ರೊರವೊ ...... ಕಡಿದಾಣ ಪಾಕಬೇಕು

ತುಮಕೂರಿನಲ್ಲಿ ಅಡಕೆ ಬೆಳೆಗಾರರ ಹಕ್ಕೊತ್ತಾಯ ಸಮಾವೇಶ। ಕೇಂದ್ರ ಸರಕಾರ ಕಡಿವಾಣ ಹಾಕಲೆಂದು ಸಂಸದ ಬಸವರಾಜು ಒತ್ತಾಯ



ದೇನಾಯ ಕೋಟ ವೀಕೇಕಗೆ ತಮಿಸಲಾಗರು ಹ್ಯಾಂಡ್ ಪೋಸ್ ನಲ್ಲಿರುವ ರವೀಶ್ ಅವರ ಸಹಜ ಬೇಸಾಯ ತೋಟವನು ವೀಕಿಸಿದರು ಕೈಸಿ ಇಲಾಖೆಯ ಕೃಷಿ ತಂತ್ರವಾಗ ನಿರ್ವ ಸಹಜ ಬೇಸಾಯದ ಕುರಿತು ಮಾಹನಾಡಿ, ಹಣಾ ನಿಯೋಗದಿಂದ ಅಂತಾರಣ್ಯು ತುಮಕೂರು ಜಿಲ್ಲೆಯಲ್ಲಿ ಸಹಜ ಬೇಸಾಯ ಇವಯವ ಕಪ್ಪಿ ಪ್ರವಾಸದ ಭಾಗವಾಗಿ ಅಂದೋಲನವನ್ನು ಮಾಡುತ್ತಿದೇವೆ. ರವೀಶ್ ಮತ್ತೆ ಮೀನಿನ ಉಟ್ಟಿ ಇವುಗಳನು ಕೋರಿ ಬೆಗೆ ಹೆಚ್ಚಾಬಿಗೆಯಲ್ಲ. ಆದರೂ ಅದಕ್ಕೆ ಬೆಂ ಸಿಗುತ್ತಿಲ್ಲ, ಆಡಕೆ ಮುಕ್ತ ಮಾರುಕಟ್ಟೆಯಲ್ಲಿ -H and sur

ನೀರು ಬೇಕಿದೆ. ಆದರೆ ಬಯಲುಸೀಮ ರೆತರ

ರೇಷ್ಠೆ ಇಲಾಖೆಯಿಂದ ಹುಳು ಸಾಕಣೆ ಮಾಡಲು ಮನೆ ನಿರ್ಮಾಣಕ್ಕೆ 2.14ರಿಂದ 3.60

ತ ಗಳ ಗಳ ಸಹಾಯಗತ ಹಿಗಳಿದೆ. ಇದಾಸ

್ಲ ಸುಲ್ಲಿ ಸಿಗುವಂತಹ ಯೋಜನೆಗಳನ್ನು ಪಡೆದು

ರೇಷ್ಠೆ ಕೃಷಿ ಅವಲಂಬಿಸಿ ಅರ್ಥಿಕವಾಗಿ ಅಭಿವೃದ್ಧಿ ಪೊಂದುವಂತೆ ತಿಳಿಸಿದ ಅವರು, ರೇಷ್ಠೆ ಕೃಷಿಯಲ್ಲಿ

ಕುಮಕೊರು ತಾಲೂಕು ಚಲೆಯಲ್ಲಿ ಪೆಪ್ಷಮ

ಇದೇ ವೇದಿಕೆಯಲಿ ಮೀನುಗಾರಿಕೆ ಇಲಾಖೆ

. De subclare aussieurs

ಕಡಮೆ ನೀಲನಲ್ಲಿ ಸಹಜ ಬೇಸಾಯ ಮಾ ವುದು ಉತ್ರಮ ಕೆಲಸ, ಬಹುಬೆಳೆ ಪ

ಆಸುಸರಣೆ, ಹೊಡಿಕೆ, ಯಾವದೇ ರಾಂ

ಯನಿಕ ಬಳಸದೇ ಇರುವುದರಿಂದ ಉ

. ವಿಜಾನ ಕೇಂದದ ವಿಸರಣಾವಿಕಾರಿ :

ನ್ ತಮಿಳುನಾಡಿನ ರತರಿಗೆ ಹೇಳ . ಜಿಲ್ಲೆಯ ತಾಲೂಕಿನ ಹೊನ್ನುದಿಕೆ ಡ್ಯಾ

ಪೋಸ್ ನಲ್ಲಿರುವ ರವೀಶ್ ಅವರ ಸೆಪ್ಜು

ನ ಹೊಂದಿದೆ ಎಂದರು.

ಸ್ವತಿರುವಳೊರ್ ಅಲ್ಲಿಯ ಸಾವಯವ ಸರ್ಮಾಚೀಸಾಯ ಅನುಸುಚಿನ ಮೊದಲನೆಯ ದರು, ಸಾವಯವ ಧ್ವತರು ಕೇಂದ ಸ್ವಕ್ಷಗಳ ಅವರು ವಿವರಿಸಿದರು. ವರು, ಸಸ್ಯ ಪ್ರಭೇಶದ ವೈವಿಧ್ಯತೆ ಮತ್ತು ಉತ್ತರಿಸಿದರು. ತಮ್ಮ ತೋಜವಲ್ಲಿ ಬೆಳೆದ ನಗಳ ಅವರು ಮದಲ್ಲಿದರು. ಮನ್ನು ಸ್ಥಾಪ್ತನದಲ್ಲಿ ಮನ್ನು ಲಕ್ಷರಣದಲ್ಲಿ ಮನ್ನು ಲಕ್ಷರಣದಲ್ಲಿ ಮನ್ನು ಪರಣದಲ್ಲಿ ಬಳಗ ಕೃಷಿ ಅರಣ್ಯ ಪದ್ಧತಿ ಅನುಸದಣೆ, ಬಹು ಜೀವಾಣು ವೈವಿದ್ಧತೆಗಳ ನಡುವೆ ಸಂಬಂಧ ಸಹಬುತಾಬಹಣ್ಣುಗಳನುರೈತರಿಗೆ ಹಂಚಿದರು ್ಯತ್ತದ ಅದಿನಗ್ರೆ ಸುದ್ದು ಅವರು ನನ್ನು ಎಂದು ಬುದೆಗಳು ಪೂರ್ಣವರ್ ಮಹಿತ ಸಂದಾಧ ಮುಂತನಾಡುಕ್ಷಣಗಳನ್ನು ಪ್ರೋಪಿಸಿದ ಮುಂತ ಹೆಸಲಿನ ಬೆಳೆ ಎಗ್ಗಳು, ಮುಂದು ನನ್ನು ಎರೆ ಬೆಸೆ ಮಾರಿ ಬೆಳೆಯವು ಸೂಕ್ಷ್ಮ ಕುಡುಗಳು ನಡೆದು ಬೆಳೆಯು ಹೊಳಬಿ ವಿಶ್ವಧಿಗೆ ತೆಲುಗು ಮುಕ್ಕಿತೆ ಹುನ್ನಲ್ ಕಾರು, ಡೆಸಿ, ಬಿಲುಗಳೆ ಗಳನ್ನು ಹೆಸ್ತಿಯಿಂದ ಮುಂತ ಮುನ್ನಡೆ ಆರೋಗ್ಯಕ್ಕೆ ನಾಡಿದ ಪ್ರೇಸ್ ಮೊದ್ದಳು ಪ್ರತಣಿಸಿದರು ತಮ ಕಾವರೆಟಿ ಸಿಕೆಯಿಸಿ ಹಿನ್ನಿ ಕಷ್ಟು ಪುಣಕಾರಿಯುತ್ತಿಯಾಗಿದೆ. ಅದುರು ಸರಿಯ ಸರಿಯ ಸಾಮಾನ್ಯ ಕಾರ್ಯ ಯಾಗು ಲ್ಯಾಗಳಿಂದ ಬೆಯ್ ಇದು ದಿರುಷ್ ಪುಣ್ಯೆ ನಿರ್ದೇಷ ಪ್ರೇಥಿಸಿದ್ದಾಗೆ ಮಾಡಿ ಕ್ರೀತಿ ಮಾಡ ಕೆ ತಿರಿಯ ತೆಗು ಹಿನ್ನುವಿದ್ದಾರವಾಗೆ ಎಂದುಕೊರೆಯ, ಅದ್ದಾರವು ಮಾಡಿದ್ದು ಕ್ಲೇಡೆ ಪ್ರತಿ ಮಾಡಿಕೊರಡು ತುಂತರಾಡಗೆ ಕೈ ಎಲ್ಲ ಮು ದಿನ್ನು ಮಾಡುವ ಸಾಯ ಹಾಡುಕ ೩ ಮೊಗಳಿನ್ನು ಹಿತ್ತಿ ಎದ್ದುವು ಪ್ರದೇಶದ ಕು ಮಾಡಿಕೊರಡು ತುಂತರಾಡ ಕೈ ಎಲ್ಲ ಮುದಿನಾಡ ಸೋಮಾಡ ಕ್ಲೇಡಿಕೊಂಡ್ ಸ್ಪೂಗಳೇಕಾವ್ಯಕ್ಷದೆ ಎಂದು ಮಧಿಸುವರ್ ಕೆ ಎಂತರ್ವಿಗಳು ಮಾಡಿಕೊರಡು ಕಾಡು ಮಾಡು ಸರ್ವ ಸಾವಯದ ಒಳಸುವಳಿಸು ಮತ್ತು ಕೆಸ್ಟ್ರಾ ಪೋಡಕಾಂಕಯುಕ ಆಧಾರ ಸರ್ವ ಬೇಸಾಯ ಬೇಸಾಯ ಪಾಲೆಯ ಸಹಕಾರವನು ಕೋರು

ತಮಿಳುನಾಡು ತಿರುವಕ್ಕೂರ್ ಜಿಲ್ಲೆಯ ಸಾಮ

ಕಡಿಮೆ ನೀರಿಗೆ ಸಹಜ ಬೇಸಾಯ ಅನುಸರಣೆ ಸೂಕ

ಸಹಜ ಬೇಸಾಯ ವೀಕಿಸಿದ ತಮಿಳುನಾಡಿನ ಸಾವಯವ ರೈತರು



ನೀಡುತ್ತದೆ. ಇವು ಹೊಣ್ಣಿಂದ ಕೆಗಡ * ಯಾನಾಲುಗಳನ್ನು ವೈದ್ಯಕಾಗ, ಮಣ್ಣನ್ನು ಮುಂದರ ಪೀಗಗ ಲಾಳ ಸಲು ಸರ್ವಾರಿಗೂ ನಾಗ್ಗೆ ತಿ ಮೂಡಿ ಸಬೇಕು, "ಎಂದು ಸೇವ್ ನೀಡಿದೆದಿ.
ಹೈದರಾವಾದಿನ ಎಗ್ಗೆ ಬರಾಗಳ
Roteron Rogon Days
mama, "sh 357
ಭೂಮಿಯಲ್ಲಿ 10 ಚನ್ ಅಧಿಕ ಮನ್ನಾ ಕೊಟ್ಟ ಹೋಗುತ್ತಿದೆ. ವಿಶ್ವದಲ್ಲಿ 440
ಜರಿಯನ ಭವು ಕೈತಿಯಾದ
अग्रेम् इन्हें कार्युक
ಸಮಗ್ರೆಯಿಂದರೇ ಆಗರಿಕ್ಷದ.
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Lature court



ಸಂಚಲನಮೂಡಿಸಿ, ಹೆಚ್ಚು ಪ್ರಸಿದ್ಧಿಯಾಗಿರುವ ಕಲನದು ತೆಂಗು ಇದೀಗ ನೀರು, ಸೂಕ್ರ ಬೆಲೆ ಇಲ್ಲವೇ ದಿನೇ ದಿನ ತೀವ್ರ ಸಮಸ್ಯ ಎದುರಿಸುತ್ತಿದೆ. ಇದರಿಂದ ಜಿಲ್ಲೆಯ ತೆಂಗರಿ ಬಿನ್ನಾರವಿಗೆ ಬರಸದಿಲು ಬಡಿದಂಗಾಗಿದೆ. ಜಲ್ಲೆಯಲ್ಲಿ ತಂಗು ವಾಣಿಜ್ಯ ಬೆಳೆಯಾಗಿದ್ದು ಸಾವಿರಾರು ಕುಟುಂಬಗಳು ಇದರಿಂದಲೆ ಬದುಕು ಕಟ್ಟಿಕೊಂಡಿದೆ. ಜಿಲ್ಲೆಯ । สยุดระทุศยุรี จุงกุง เวิศักริสุบิส 1,31478 ಹೆಕ್ಟೇರ್ ಪ್ರದೇಶದಲ್ಲಿ ಈ ಬೆಳ ಬೆಳೆಯಲಾಗುತ್ತಿದೆಎಂದುಅಂದಾಜಿಸಲಾಗಿದೆ. ಸಮಸ್ಯೆ, ಸೂಕ್ರ ಬೆಲೆ

ಆದರೆ ದಿನ ಕಳೆದಂತೆ ತೆಂಗು ಬೆಳೆಗಾದರಲ್ಲಿ ಆತಂಕ ಹುಚ್ಚಾಗುತ್ತಿದ್ದು, ಲಕ್ಷಾಂತರ ರೂ. ಪ್ರಂಭ ಮಾಡಿ ಬೆಳೆದಿರುವ ತೆಂಗಿನ ತೋಟಗಳನು ಹಲವಾರು ಗಳಸಿಕೊಳ್ಳುವುದು ಯಕ್ಷ ಪ್ರಶ್ನೆಯಾಗಿಬಟ್ಟಿದೆ. ಸಮನೆಗಳಿಂದ ವದರಿಂದ ದೂರ ಉಳಿಯುತಿದಾರೆ.

. ಚಿಕ್ಕಣ್ಣ ಎಸ್.ಡಿ. ರಾಜ್ಞಮಟ್ಟದ ಮಾರುಕಟ್ಟೇಗಳಲ್ಲಿ ಹೊಸ ಸಂಚಲನವಾಲ್, ತೆಲೆ

भाकुअनुप IČAŘ

ಕಂಗಾಲಾಗಿರುವ ಬೆಳೆಗಾರರು ಜಿಲ್ಲೆಯಲ್ಲಿ ಅಂತರ್ಜಲ ಬತ್ತಿರುವುದರಿಂದ ೩೪ವೆ ಬಾವಿಗಳಲ್ಲಿ ನೀರಿಲ್ಲವೇ ಲಕ್ಷಾಂತರ ಬೆಲೆ ಬಾಳುವ ತೆಂಗು-ಆಡಕೆ ತೋಟಗಳನು ಳಿದುಕೊಳ್ಳುವುದು ಒಂದು ಕಡೆಯಾದರೆ. theorem this contributed ಎರುವ ತೆಂಗಿನ ಮರಗಳಲ್ಲಿ ಅವರಿಸಿರುವ ಯಾಗುತ್ತಿರುವ ತೆಂಗಳ ಬಕ ಮಾರುಕಟೆಯೂ ಇಲ್ಲ ಜಗೆಗೆ ನಿಗೆಲು



ಇಲ್ಲದೆ, ರೋಗದ ಹಾವಳ ಸೇರಿದಂತೆ



ಕರೆ-ಕಟ್ಟೆಗಳು ಖಾಲಿಯಾಗುತ್ತಿದ್ದು, ಕೊಳವೆ ಬಾವಿಗಳಲಿ ಅಂತರ್ಜಲ ಮಾ ಕುಸಿದಿದೆ. ಕಷಿಕರು ಸಾದ್ರವಾದಹು ಹತ ನೀರಾವರಿ, ತುಂತುರು ನೀರಾವರಿ ಹಾಗೂ ಮಳೆ ನೀರು ಕೊಯ್ದು ಅಳವಡಿಸಿಕೊಳ್ಳ - ಕೆ.ಎನ್ .ಜಗದೀಶ್ ತಪ್ಪರು, ಕೃಷಿ ಕೇಂದ್ರ, ಹಿರೇಹಳ್ಳಿ

ಬೆಳೆಗಾದರನು ರಕ್ಷಿಕೊಳುವ ನಿಟನಲಿ ವೈಪರೀತ್ಯ, ತಾಹಮಾನ ಬರಿಕೆ, ಕೇಂದ-ರಾಜ ಸರಕಾರಗಳು ಬೆಂಬ ಬೆಲೆಯನು ತುರ್ಕಾಗಿ ನೀಡಬೇಕಿದೆ statute ಗುತ್ತಿರುವ ಮುಗ etet. ಪರ್ಮಾದಿಂದಾಗ

ಇಲ್ಲದಿರುವದು ಚಂತಗೀಡು ಮಾಡಿದೆ. ಾಂದು ಒಂದು ಕಂಟಾಲ್ ಒಡ್ಡಾಬರಿಗೆ ರೂ.10300 ರಿಂದ 10500 ರೂ. ಆಗಿದ ಆದರೆ ತೆಂಗು ಉಳಿಸಿಕೊಳಲು ಲಕಾಂತರ ಹಣ ມ່ຟາງເຊິກຊ່າຊາດຄາດຕໍ ಹಾಗಾಗಿ ಕನಿಷ್ಠ 15000 ರೊ.ಗಳಪಾದರ ಬೆಂಬಲ ಬೆಲೆ ಸಿಗಬೇಕು ಎಂಬುದು ರೈತ





ಕಳಮಾರ್ಗದ ಅಡಕೆಗೆ ವಾಣ ಹಾಕಿ

















# Human Resource Development – 2019

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.B.Hanu	SMS (Plant	TOT training	GKVK,	Nov 20
manthe	Protection)	programme -	Bangalore	22 2010
Gowda		ASCI		22, 2019
Smt.	SMS (Home	TOT training	GKVK,	Nov 20
Radha	Science)	programme -	Bangalore	20-
R.Banakar		ASCI		22, 2019
Shri.P.R.R	SMS (Soil	Bio Fertilizer	ICAR-IIHR,	01 11 20
amesh	Science)	related aspects	Hesaragh	10
		in FCO	atta	13





#### **Awards & Recognition**



Best NICRA KVK Award, 2019 by ICAR- CRIDA, Hyderabad on 04.06.2019.





Best oral presentation by Mr KN Jagadish, eSARD Conference, KVK, Mysore, 16-12-19



VAMSHI PURSKAAR award 2019, by Vamshi Academy of Music Trust, Rajajinagar, Bengaluru on 10.11.2019.



Sri Srinivas Reddy, Pavagada farmer received Best Pomegranate farmer award at Horti Mela



# Production of Seeds, Planting materials and other Products





## **KVK Farm Map**



# 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	Guava	0.5
11	Vegetables (Seed Production)	2.0
12	Fodder	0.3
13	Minor fruits	0.2
14	Poly house, Shade net (Nursery)	0.2
15	Other Demo units, Buildings	2.75





# **KVK Farm – Diversification (Ha)**





 Plantation crops
Fruit crops
Vegetables (Seed Production)
Fodder

- Poly house, Shade net (Nursery)
- Other Demo units, Buildings



# **Seed Production Details**





भाकृअनुप ICAR



Arka Isha – Coriander

#### Production and Sale of Seeds of Cereals and Pulses (SMS-Horti)

Crop category	Name of the crop	Name of the Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)					
	Ragi	KMR-340	0.60	360	12
	Ragi	Indaf-7	9.0	36000	180
	Ragi	ML-365	4.79	19160	145
Millets	Brown top millet (Korale)	Local	1.83	10980	36
	Little Millet (Same)	Local	0.14	1120	3
Oilseeds					
	Mustard	Pusa-3	0.30	24	3
Pulses					
	Red gram	BRG-5	4.30	32475	91





#### Production and Sale of Vegetable Seeds (SMS-Horti)

Name of the crop	Name of the Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Amaranthus	Arka Suguna	0.016	800	5
Bottlegourd	Arka Bahar	0.22	22000	6
Brinjal	Arka Sirish	0.028	3708	10
Chilli	Arka Suphal	0.050	990	3
Tomato	Arka Meghali	0.065	1300	5
Coriander	Arka Isha	0.25	10000	30
French Bean	Arka Suvidha	0.485	12125	50
Okra	Arka Anamika	0.11	5380	25
Onion	Arka Kalyan	0.88	105421	50
Palak	Arka Anupama	0.695	27800	20
Pumpkin	Arka Suryamukhi	0.0645	6450	10
Radish	Arka Nishanth	0.080	400	2
Ridge gourd	Arka prasanna	0.32	32200	15
Cow Pea	Arka Garima	0.48	12000	10
Vegetable Seed Kit (Nos.)	Mixed	3823	573450	1911





#### Production and Sale of other crop seeds (SMS-Horti)

Crop category	Name of the crop	Name of the Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Fodder crop					
seeds					
	Fodder Cowpea	COFC-8	0.17	4250	17
	Fodder Sorghum	COFS-29	0.11	5750	12
Fiber crops					
Forest Species					
Others (specify)					
	Sunhemp (Kg.)	Local	0.024	168	2
	Mucuna (Kg.)	Arka Ashwini	0.01	80	1
	Arecanut Seed Nuts (Loose) – Nos.	Hirehalli Tall	39520	197600	28
	Arecanut Seed Nuts (Degraded)	Hirehalli Tall	21.12	42240	1
y	Arecanut Seed Nuts (Auction)	Hirehalli Tall	-	440050	1
	Coconut (Auction)	Tiptur Tall	-	65000	_1



# **Planting Materials Production**





SINDHI DATNAGIE

ALPHONSO 3. KESAR 4. DASHEHARI 5. ARKA ANMOL 6. MALLIKA







#### CITRUS CROPS

1. KINNOW MANDARIN 2. PÚMELO 3. RÔJUGH LEMON 4. SATHGUDI 5. NÀGPUR QRANGE 6. COORG MANDARIN 7. SEEDLESS LEMON 5. KAGAZI LIME

#### KINNOW MANDARIN

1. KINNOW MANDARIN

**CITRUS CROPS** 

- 2. PUMELO
- 3. ROUGH LEMON
- 4. SATHGUDI
- 5. NAGPUR ORANGE
- 6. COORG MANDARIN
- 7. SEEDLESS LEMON

4R-11

8. KAGAZI LIME













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

#### **Production and sale of planting materials (SMS-Horti)**

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Vegetable seedlings					
	Drumstick Seedlings	PKM-1	2642	39630	8
Fruits					
	Papaya Seedlings	Arka Prabhath	2942	35304	6
	Acidlime Seedlings	Local	113	4520	15
	Tamarind Seedlings	PKM-1	494	34580	28
	Amla Grafts	NA7	642	44940	27
	Guava Grafts	Allahabad Safed, Arka Mridula and Arka Kiran	3083	215810	34





### Production and sale of planting materials (SMS-Horti)

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Fruits	Jamun Seedlings	Dhupadal			2
			5	350	
	Jackfruit Seedlings	Chandra Halsu	17	680	8
	Lime Seedlings	Balaji	1309	52360	33
	Mango Grafts	Alphanso,			28
		Mallika&			
		Dashahari	3590	251300	
	Pomello Seedlings	Devanahalli			42
		Local	369	14760	
	Custard Apple Seedlings	Balnagar	37	2590	12
	Lakshmana Phala	Local			41
	Seedlings		119	4760	
	Rose Apple Seedlings	Local	64	1280	22
	Sapota Grafts	Cricket Ball	164	11480	13
	Fig Seedlings	Poona	5	100	2
	Cherry Seedlings	Local	5	100	2
	Guava Root Stock	Local	40	1600	5
	Jackfruit Root Stock	Local	800	32000	2





#### **Production and sale of planting materials (SMS-Horti)**

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers
Medicinal and					
Aromatic					
	Betelvine Cuttings	Hirehalli Local	476	7140	3
Plantation					
	Coconut Seedlings	Tiptur Tall	125	10000	4
	Arecanut Seedlings	Hirehalli Tall	5281	211240	18
	Arecanut Sprouts	Hirehalli Tall	18870	188700	26
Fodder crop					
saplings					
	Napier Grass Cuttings	Napier	200	200	4
	Guinea Grass Cuttings	Guinea	100	100	2
Others(specify)					
	Jamoon Scions	Dhupadala	10	20	1
	Guava Scions	Allahabad			2
		Safed	120	240	
	Amla Scions	NA-5	10	20	1
Total			41632	1165804	391





### Sale of Animal components 2019 (SMS-SS)

		Cost	Amount
Others	Qty	(Rs.)	(Rs.)
Bannur Sheep – 3 Nos. (Kg)	119	300	35,700
Hallikar Bull (No)	1	30,000	30,000
Total			65,700









## **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. Sealer cum Healer
- 10. Pheromone traps and Lures

#### **IV. Home Science Products**

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





#### **Production of KVK-Products**

SMS	Bio Products	Name of the bio-	Qty	Value	No. of
		product	(q)	(Rs.)	Farmers
					covered
		Banana Special	103.37	1550550	1292
	Micro Nutrient	Vegetable Special	68.12	1021800	1135
	Fertilizers	Mango Special	73.75	1106250	1229
		Citrus Special	34.34	515100	858
		Arka Microbial			
SMS	Dia Cartilizara	consortium-			
(Soil	BIO-Fertilizers	Powder	10.80	152180	270
Sci)		Liquid (Lit)	50.64	126600	844
		Fruit Fly Traps			
		(Nos.)	4633	92660	722
	Pheromone	Fruit Fly Lures			
	Traps/Lures (No.)	(Nos.)	11518	230360	798
		Fruit Fly Trap Set			
		(Nos.)	49	4900	11





#### **Production of KVK-Products**

SMS	Bio Products	Name of the bio- product	Qty (q)	Value (Rs.)	No. of Farmers covered
SMS	Rio posticidos	Neem Soap	41.52	1079520	1250
(PP)	bio-pesticides	Pongamia Soap	18.25	383250	360
		Sealer cum Healer	5.51	99180	13
		Amla Squash (Lit)	114	14820	80
SMS-		Amla Candy (No.			
(Home	Home Science	of 200 g packs)	221	13260	125
Sci)	Products (Kg.)	Mushroom Spawn	6.80	51000	25
		Ragi Malt (No of			
		250 g packs)	271	13550	120





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



	Particulars	No. of samples	No of farmers	Amount (Rs)
	Soil	1,853	1,312	
	Water	695	628	
When the	Plant	63	51	
भाकृअनुप	Total	2,611	1,991	5.64 Lakhs
IČAŘ				



# Activities as Resource and Knowledge Centre





# Demonstration on Nutri gardens for Nutrition security to the farm families

Crop	:	Vegetables and fruits
Variety	:	Arka varieties
Problem	•	Lack of knowledge on establishment of nutrition garden, lack of awareness about nutritious food, non-utilization of resources-Water, Space & organic waste
Technology to be Demonstrated	•	Demonstration on Establishment of scientific Nutrition Garden
Source of Technology	•	UAS ,Bengaluru
Parameters to be taken	:	Yield, Average Vegetable production per month, Cost of savings through nutritional garden,, vegetables adequacy and Daily Intake
DFI village	•	Kumbarahalli:Sira Tq and Rangapura:Madugiri Tq
Season & Year	:	Kharif & Rabi, 2019-20
SMS	:	SMS (HS)





### **Critical Inputs distributed to farm women**

Sl. No.	<b>Critical Inputs</b>	Quantity
1	Vegetable seed kit	1 No
2	Vegetable special	0.5 kg
3	AMC liquid	1 lt
4	Neem soap	0.5 kg
5	Saplings(Drumstick,papay a,Lime,Chakramuni, Curry leaf, Banana)	Each one









Group Discussion on Nutri garden

Training on Nutri garden





Distribution of critical inputs





Demonstration on bed preparation



	Rac	dish(Kg)	Tomato (Kg)	Chilli (Kg)	Brinjal (Kg)	F bea	rench an (Kg)	Okra (Kg)	Onio	n (kg)	]	Fotal	
	_	55.4	111.4	118	103		65.8	76.2	4	7	5	75.8	
Qua of l ego oroo	ntity leafy etable luced	Rate per Kg (Rs.)	Quantity of other vegetables produced (Kg.)	Rate pe Kg (Rs	er .) Total (	(Rs.)	Gross Cost (Rs.	) Retu	ross rn (Rs.)	Net Retur (Rs.)	n	B:C Ratio	)
2	72	50	576	40	3664	40	25,000	32	.360	7360	)	1.50	
	4		Sale a					and the second					





Additional parameters	Demo	Check	% Change
Production of vegetables (Kg/ month/ Family)	19.2	Nil	100
Vegetables Availability (gms/Person/day)	160	75	46.87
Vegetable consumption Adequecy (%)	45.71	18.75	41.01

# Conclusion

- Feedback of farmers and farm women: Cost incurred towards purchase of vegetables has reduced from Rs.200/- to Rs.50/week
- Consumption of leafy vegetables has increased from twice a week to 4-5 times / week





## **NICRA – TDC Project**









#### **Natural Resource Management**

S1. 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	2 No.	2
8	Water storage structure	1 Nos.	1
9	Tamarind PKM-1	1	52
10	Jamun	0.2	15

#### **Crop Interventions**

<b>S1.</b>	Seed Type	Variety	Area	No. of
No.			(ha)	stakeholders
1	Ragi	ML-365	46	91
2	Red gram	BRG-2	15	64
	(Intercrop)			
3	Aerobic paddy	Paustic-9	7	18
4	Aerobic paddy	Tripura	0.1	1
		Dhan-1		
5	Foxtail millet	DHFT-109-3	0.4	4
6	Dolichos (Intercrop)	HA-4	4	28
7	Cowpea (Intercrop)	IT-3896-1	5	32
8	French bean	Arka Suvidha	1	10
9	Fodder sorghum	CoFS-29/31	8.6	59







# **Skill Training Programme (ASCI)**



ſ				Date			No. of Participants								Date	No of
				of			General			SC/ST	-	Grand Total			of	Partic
				Close	Total										Asses	ipant
	S.	Name of	Date		Partic										smen	S
	Ν	Job Role	of		inant		Forma			Eomo			Eomo		t	passe
	0.	JOD ROL	Start		s	Male	lo	Total	Male	lo	Total	Male		Total		d
					3		le			le			le			asses
																smen
																t
	1	Mango	21.01.	14.02.	20	13	02	15	05	0	05	18	02	20	27.03.	16
		grower	2019	2019		15	02	15	05	0	05	10	02	20	2019	
	2.	Friends		14.02.	20										26.03.	20
		of	21 01	2019											2019	
١		Coconut	21.01.			17	0	17	03	0	03	20	0	20		
(		tree (	2019													
		FOCT)														
ЪŤ	175 31						-							-		No.

भाकृअनुप ICAR
## **Sujala Watershed Capacity Building**

5	<b>51.</b> _	Date	Num	Village Name	Sub water Shed	Micro Water	Resource	Subjects covered
1	No.		ber			shed	Persons	
1		06.03.2019	32	Tavarakere	Lingapura	Bidanagere	Ramesh P R	a)Information on
2	-	22.03.2019	32	Chikkasarangi	Adaguru	Yallapura	Scientist –	Sujala III phase
3		20.03.2019	33	Mallasandra	Heddathanahalli	Adaguru	Soil Science	b) Scientific
4		11.04.2019	31	Halanuru	Adaguru	Adaguru	Prasanth JM	information on
5		12.4.2019	43	Banavara	Virupasandra	Banavara	Scientist –	Soil and Site
6	; ;	15.4.2019	38	Chikkamalavadi	Lingapura	Kalkere	Horticultur	characteristics,
7	7	16.4.2019	32	Buchanahalli	Virupansandra	Buchanahalli	e	Hydrology,
8	}	23.04.2019	32	Honnudike	Virupansandra	Honnudike		Digital LRI maps
9	)	24.04.2019	31	Holakallu	Virupansandra	Holakallu		c) Thematic maps
	10	08.05.2019	32	Hullenahalli	Virupasandra	Neralapura		d) Land suitability
1	.1	15.05.2019	37	Mulakunte	Virupasandra	Neralapura		of Major crops
1	.2	04.06.2019	30	Doddegoudanapal	Virupasandra	Neralapura		covered
				ya				e) Proposed crops
1	.3	06.06.2019	31	Inapura	Virupasandra	Neralapura		and crop
1	.4	10.06.2019	30	Naruganahalli	Virupasandra	Naruganahall		production
						i		technology
1	.5	11.06.2019	30	Virupasandra	Virupasandra	Virupasandra		f) Interaction with
1	.6	26.06.2019	33	Halanuru	Virupansandra	Buchanahalli		participants
1	.7	27.06.2019	32	Hettenahalli	Adaguru	Yallapura		
1	.8	28.06.2019	31	Haluhosahalli	Adaguru	Yallapura		
$\mathbb{V}$ 1	.9	29.06.2019	43	Banavara	Virupasandra	Banavara		
(2	.0	03.08.2019	40	Kolihalli	Gouripura	Gollarahatti		
			673					
٢Č	AŘ							CAR-III

## **Sujala Watershed Capacity Building**











## **DAESI course for Input dealers**



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



Graduation day of II Batch of programme "Diploma in Agricultural Extension Services for Input dealers (DAESI)" on 21st May 2019



# New initiatives, FPO support & Visitors





## **New products - License**

#### Arka Mushroom Rasam Powder



#### **Arka Borer control Formulation**







### **Support to FPOs**

## KVK is instrumental in provision of machineries to given below FPOs

No	FPO	Place	Machinery
1	Swavalambi utpadakara samsthe	Sira, Tumakuru	Millet Processing Unit
2	Madakari Souharda Co- operative Limited	Pavagada, Tumakuru	Groundnut Oil Mill
3	Suvarnamukhi Souharda Co- operative Limited	Madhugiri, Tumakuru	Tamrind Pounding machine (for Lollypop making)
4	Gramachetana FPO	Koratagere, Tumakuru	Ragi processing unit





#### Pavagada FPO, Managlvada, Pavagada, sponsored by Karnataka Department of Horticulture

#### **Training programmes Conducted**:

Date	Venue	No. of farmers attended	Topic covered
21-10-2019	Managalavada	30	Improved Practices in Pomegranate cultivation
22-10-2019	H.B.halli	30	Banana cultivation practices

#### Front line demonstrations organised:

Crop	Technol	Name of the	Technology interventions
	ogy	Farmer	
Tomato	ICM	Sri Gopal,	Introduction of Arka Rakshak hybrid,
		Magalawada	IPDM practices
Pomegranate	IPDM	Sri Bheemannna,	IPDM practices as per NRCP and IIHR
		Mangalawada	
Banana	ICM	Sri Sathish,	Sucker treatment, Banana special
		Arsikere	application, IPDM practices

#### **Exposure Visit to Maharashtra**





**Interstate Exposure visit to Farmers:** An exposure visit was organised for 50 farmers of Pavagada FPO to Nasik and Ahmednagar Districts of Maharashtra from 6th to 11th, November, 2019.





#### **IIHR-SCSP** project support

No	Name of PI	Materials/Capacity building supported	FPO/NGO/Taluk
1	Dr Laxman	AMC powder	Pavagada
2	Dr Selvakumar	AMC Powder	Salugatte FPO, Sira
3	Dr Anil Kumar	Drip lines	Grama Chetana FPO, Koratagere
4	Dr Krishna Reddy	Mushroom training	Bhusakti Kendra, Tumakuru





#### **Important Visitors**



Dr. V.P.Chahal, Honorable ADG (Agril, Extn.), ICAR visited KVK, Hirehalli on 21st August 2019



QRT team of ATARI Zone XI visited KVK Hirehalli on 4th October 2019





भाकुअनुष्Shri G.B.Jyothi Ganesh MLA Tumakuru visited ICAR ICARKVK Hirehalli on 14th June 2019



Addnl. Chief Secretary, Agrl. Commissioner visit 24th Sept., 2019

## Impact of KVK activities & Success stories





## Shri.Rudraiah



- He is a 75 years old person involved in farming since 50 years.
- He resides in Chikkahalli village of Korategere taluk in Tumakuru District. He used to own 2 acre farm, in which he used to cultivate Arecanut, Coconut and Ragi (MR-6 variety).
- In the year 2017, the KVK staff advised him to go for Integrated Farming System (IFS).
  - Based on their advise has taken another 1.5 acre land on lease. Presently, in the total area of 3.5 acres, he cultivates Arecanut and Coconut (1.5 acre) with banana as intercrop, China Aster (0.5 acre), Kakada Jasmine (0.25 acre), Ragi (1 acre) and Rose (0.25 acre).

	Details	Gross Cost (Rs.)	Gross Income (Rs.)	Net Income (Rs.)	BCR
	Before Intervention	1,55,000	2,88,000	1,25,000	1.81
	After Intervention	2,30,000	4,40,000	2,10,000	1.91
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## Shri.Thipperangappa

- He is from Karikyathanahalli village, Nidagallu hobli, Pavgada taluk,
- He has grown one acre of groundnut K-6 variety and got 5.3 qtls yield in the year 2016-17.
- He was very much impressed about the crop stand even during the drought hit vulnerable situation.
- He used the same seeds during the summer-2017 and produced 24 qtls seeds.
- He had given these seeds to 24 farmers during Kharif-2018.
- Likewise, he is producing the seeds every year and supplying to the farmers.
- So far, he supplied the seeds to 89 farmers during the year 2019-20.







## Shri. Raveesh

- He is a 45 years old farmer from Hosuru village, Guluru hobli, Tumakuru taluk, purchasing spawn from our KVK and producing oyster mushroom.
- He is producing nearly 150 to 200 kg oyster mushroom per batch (6-7 batch per year) and on an average he is getting additional income of Rs 8,000-10,000/-
- Along with this, he is practicing organic farming and earning about 2-3 lakshs/year.
- Other source of income for his family is Bee keeping (Rs 35000-40,000/year) and from dairy sector (Rs 15,000-20,000/year).









## **Organic Pomegranate – Direct sale**

- Shri. Srinivas Reddy is a farmer from Madavarayanapalya village in Pavagada taluk, Tumakuru. He has been cultivating pomegranate in an area of 1 ha since 3 years.
- Last year KVK staff have advised him to take up organic farming methodologies that include application of Arka Microbial Consortium (AMC), Arka Actino plus, neem soap, etc.
- By following these practices, he was able to harvest about 35 tonnes of fruits in his field.
- Sample of fruits from the farmers field were sent to pesticide referral lab of IIHR and the results of residue level of objectionable chemicals were almost nil
- Director of IIHR suggested to use the special vehicle designed exclusively for this purpose to sell his produces.
- It is a vehicle with facilities like provision for keeping fruit crates, controlled humidity chambers, AV aids, etc.
- By this process, the farmer was able sell 700 kg. of fruits @Rs.100/kg., getting a profit of Rs.70,000/-. Where in he sold the remaining fruits @Rs.60/Kg. in the local market.





### **Organic Pomegranate – Direct sale**











## e-Horticulture – WhatsApp Group

 E-Horticulture WA group has become another name for 'ready solution to the horticulture related problems faced by the farmers in contact with IIHR as well as State Agricultural Universities (SAUs) and NGOs/FPOs.

#### **Problem Addressed by "e-Horticulture" Group**

SI.No.	Item	Percentage	Ranking
1.	New crop production & nursery techniques	69.2	4
2.	Quality Inputs availability	62.5	5
3.	Water management	34.2	8
4.	Pest and disease management	100	1
5.	Soil and Nutrient management	80	2
6.	Weather information	78.3	3
7.	Mechanization in agriculture	46.7	7
8.	Marketing information	59.16	6



## **Areca leaf based Products**

- During the year 2016-17, about 4 training programmes were organized at KVK, covering 121 participants.
- Among them 90 participants took up the trainings seriously, enquiring for further assistance to start the business.
- Further follow-up and guidance were given to them in terms of DPR (Detailed Project Report), guidance to reach banks and District Industries Centre for availing subsidy.
- Among them, 21 participants utilized these services and started their units.
- Among them, ten have emerged as successful entrepreneurs.





## **Areca leaf based Products**







## Post training analysis

Particulars	Numbers	Percentage
Bank support received		
Private Banks	3	14.2
Nationalized Banks	13	61.9
Own fund	5	23.8
Employment Generation		
Self + Up to 5 Nos. employees	18	85.7
More than 6 employees	03	14.2
Problems being faced		
Non-availability of raw materials	13	61.9
Labor shortage	18	85.7
High rental charges	7	33.3
Loan related formalities	7	33.3
Use of Areca plate waste		
Burning	2	9.5
Compost	8	38.1
Fodder Purpose	7	33.3
Mulching	6	28.5
Role played by KVK		
Training	14	66.6
Guidance	1	4.7
Training and Handholding (Guidance)	6	28.5

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## Shri Suresh N Gowda

	Name of the co	ompany	Shishir Agro	Shishir Agrotech				
	Date of openin	g the company		17/04/202	17/04/2018			
	<b>Cost of Project</b>			Amount (Rs	Amount (Rs.)			
	Shed		Own	Own				
	Machinery Cos	t	5,25,000					
	Equipment		13,000					
	Working Capita	al	50.000					
	Power Sanctio	n	60.000					
	Miscellaneous		50.000					
	Total		6,98,000	6.98.000				
	Production Details			-,,				
	Daily Production (C	One day - Single Shift)						
ĺ	Size	12 Inch Plate	10 Inch Plate	6 Inch Bowl	5 Inch Bowl	Total		
	Rate per unit	3.2	2.2	0.9	0.75			
	(Rs.)							
	Total Unit (No.)	500	500	250	250	1,500		
	Total money	1,600	1,100	225	188	3,113		
	earned (Rs.)							
	Monthly Productio	n (26 days - Single Sh						
	Size	12 Inch Plate	6 Inch Bowl	5 Inch Bowl	Total			
	Rate per unit	3.2	2.2	0.9	0.75			
Ht	(Rs.)							
	Total Unit (No.)	13,000	13,000	6,500	6,500	39,000		
भाकु अगि 102	Total money earned (Rs.)	41,600	28,600	5,850	4,875	80,925		

## **Profit Analysis**

<b>Yearly Production</b>	Yearly Production (312 days - Single Shift)								
Size	12 Inch Plate	10 lı	nch Plate	6 Inch E	Bowl	5 Inch Bowl	Total		
Rate per unit (Rs.)	3.2	3.2		0.9		0.75			
Total Unit (No.)	1,56,000	1,	,56 <i>,</i> 000	78,00	00	78,000	4,68,000		
Total money	4,99,200	3,	,43,200	70,20	00	58,500	9,71,100		
earned (Rs.)									
Sale Details									
Monthly Sales	12 hour per da	iy)	Units (Nc	).)	Total	Revenue (Rs.	)		
			78,000		1,61,	1,61,850			
Yearly Sales (1	2 hour per day	)	Units (Nc	).)	Total	Revenue (Rs.)	)		
			9,36,000		19,42	2,200			
Profit Analysis			Amount	(Rs.)					
<b>Total Monthly Exp</b>	benditure		1,06,276						
Total Monthly Sales Revenue			1,61,850						
Profit - Monthly			55,574						
Profit - Yearly			6,66,888						

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# Budget and RFS Details





#### Utilization of Budget (in Rs.) (2019)

S.	Particulars	Sanctioned	Released	Expenditure
No.		Sanotionea	nereased	Experiarcare
A. Recur	ring Contingencies			
1	Pay & Allowances	16196000	8331067	
2	Traveling allowances	95000		91310
3	Contingencies		791125	
А	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	250000		421545
В	POL repair of vehicles tractor and equipments	150000		221545
C	Meals/refreshment for trainees (ceiling unto Rs 40/day/trainee be	150000		223303
C	maintained)	100000		71509
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	25000		0
Е	Frontline demonstration except oilseeds and pulses (minimum of 30			
	demonstration in a vear)	265000		113603
F	On farm testing (on need based, location specific and newly			
	generated information in the major production systems of the area)	40000		25065
G	Training of extension functionaries	25000		21546
0	Extension Activities	25000		0
	EDP – Entrepreneurship Development Programme	30000		0
	Nutri Garden	25000		24760
н	Maintenance of buildings	0		0
1	Establishment of Soil, Plant & Water Testing Laboratory	25000		25000
J	Library	5000		0
-	TOTAL (A)			-
B. Non-F	Recurring Contingencies			
1	Works			
2	Equipment including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (E	3)			
C. REVO	LVING FUND			
GRAND	TOTAL (A+B+C)			

### Status of Revolving Fund (Rs. In Lakhs)







### Status of Closing Balance(Rs. In Lakhs)



#### Status of Revolving Fund (Rs.)

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 31 st March
April 2016 to	20 26 000		62 06 760	
March 2017	59,50,000	70,14,525	05,00,700	40,44,031
April 2017 to			00 62 221	22.22 564
March 2018	40,44,051	75,51,254	09,02,521	52,55,504
April 2018 to	32,33,564	1,15,25,942	90,27,856	57,31,650
March 2019				
January 2019 to	*50,51,344	1,11,05,301	1,00,44,163	*61,12,482
December 2019				

* Opening Balance as on Jan 1st and Net Balance as on Dec 31st











