Annual Review Workshop (2014-15)

Krishi Vigyan Kendra,
Hirehalli,
Tumakuru-A
(IIHR, Bengaluru)
Karnataka

N.Loganandhan, Programme Coordinator

General Information of KVK

Year of sanction	:	2009-10
Address	:	NH-4, Hirehalli, Tumakuru-572168 Karnataka
Host Institute	:	Indian Institute of Horticultural Research, Bengaluru
Phone No./ Fax No. E-mail Website	: : :	0816-2243175/ 2243177 iihrkvk@gmail.com www.iihrkvk.org
Total no. of staff	:	14
Area	:	71 acres

Particulars	P.C	SMS	P.As	Admn.	Drivers	Supporting	Total
Sanctioned	01	06	03	02	02	02	16
Filled	01	06	03	01	02	01	14

Tumakuru – Our district

Our Taluks
1. Tumakuru
2. Koratagere
3. Madhugiri
4. Sira
5. Pavagada

District- At a glance

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

Operational Area

Name of Taluks	Cluster Villages selected
Tumakuru	Neralapura, Belagumba, Yellapura, Urdigere, Beliiibattalu, Vadderahalli
Koratagere	D.Naganahalli, Baichenahalli, Vadderahalli, Kolala
Madhugiri	Hanumanthapura, Midigeshi,
Pavagada	Arasikere, Mangalavad, Madde
Sira	Kataveeranahalli, Kallambela Sakshihalli, Kumbarahalli, Ganadahunase

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**
11	**Income Generating Activities and Value Addition**
12	**Child and Women care and balanced Nutrition**

5th Scientific Advisory Committee -30.09.2014

Abstract of Interventions during 2014-15

No.	Interventions	Numbers
1.	On Farm Testing	4
2.	Front Line Demonstrations	16
3.	NIFTD Demonstrations	26
4.	Farmers Field School	1
5.	Training Programmes	48

On Farm Testing (2014-15)

Abstract of OFTs during 2014-15

Sl. No.	Crop/ Enterprise	Identified Problem	Title
1.	Groundnut	Smaller pod size & Lower yield	Assessment of groundnut varieties
2.	Mango	Low soil fertility, Mono cropping, Lower income	Assessment of Red gram: Green gram (1:4) as a intercrop in Mango orchard for climate resilient agriculture
3.	Arecanut	Inefficient use of space, weed menace, low soil fertility, lower income from mono cropping	Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income
4.	Pomegranate	Wilt problem, Bacterial blight	Evaluation of technology for management of Pomegranate wilt

1. Groundnut varieties (Assessment)

Title of Technology	:	Assessment of groundnut varieties
Problem Definition	:	Lower yield, foliar diseases & Smaller pod size
Rationale		KCG-6 Recent variety with higher yield assessment

No. of Trials : 5 **Area : 1.0 ha** **Place: Sakshihalli,Tuppadkona**
Farming Situation : Rainfed **Season & Year : *Kharif* 2014**

Technology options being assessed along with justification | **SMS (Plant Breeding)**

Technology Options	Details of Technology	Source of Technology	Justification
TO 1 : Farmers Practice (FP)	Use of TMV -2		TMV-2 is susceptible to foliar diseases and it is not preferred by the farmers / traders because of its smaller pod size
TO 2: (Recommended package of practices) RPP	KCG- 2	UAS, Bengaluru	KCG - 2 is of bigger pod size, traders and farmers prefer, gives higher yield and tolerant to moisture stress
TO 3 :Alternate Practice	KCG- 6	UAS, Bengaluru	Short to medium duration, Medium size pods, More pods per plant, High shelling % and Oil content

Results (2014-15)

Particulars	Parameters		Economics			
	No of Pod/Plant	% of Foliar Disease Incidence	Avg Yield (qt/ha)	Gross return (Rs/ha)	Net income (Rs/ha)	B:C ratio
TO1 (FP) TMV-2	25.6	28.6	5.71	24295	8104	1.53
TO 2 (KCG-2)	32.2	15.4	7.08	30400	14209	1.90
TO 3 (KCG-6)	36.2	12.2	7.82	33415	17224	2.11

KCG-6

TMV-2- Susceptible to foliar dieses

2. . MANGO (Assessment)

Title of Technology	:	Assessment of Redgram-Greengram (1:4) as a intercrop in Mango orchard
Problem Definition	:	Low soil fertility, more weeds infestation and Lower income
Rationale		Evaluation of Green gram performance in Mango as a intercrop for higher additional income and soil fertility

No. of Trials : 3 **Area : 0.4 ha** **Soil type : Red sandy soil**
Farming Situation : Rainfed **Season & Year : *Kharif* 2013-Summer 2014**

Technology options assessed along with justification | **SMS (Plant Breeding)**

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : FP	Solo cropping	-	-
TO 2: RPP	Mango + Horse gram PHG-9	UAS, Bengaluru	Growing Horse gram as inter crop in mango gives more income and weeds will be controlled
TO 3 : Alternate Practice	Mango + Red gram - Green gram (1:4) BRG-1 + PDM 84-178	IIHR Bengaluru	More bio mass production, weed control and more income per unit area and increase in the soil organic content

3. Arecanut (Assessment)

Title of Technology	:	Assessment of Areca nut -French bean intercropping system for high soil fertility and higher income
Problem Definition	:	Inefficient use of land, weed menace, low soil fertility, lower income
Rationale		Evaluation of French bean performance in Arecanut as a intercrop for higher additional income and soil fertility

No. of Trials : 3 **Area : 1.6 ha** **Soil type : Red sand loam**
Farming Situation : Irrigated **Season & Year : Rabi, 2014**

Technology options assessed along with justification | **SMS (Horticulture)**

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

Demo plots

Arecanut Mono crop

Arecanut + Cowpea

Arecanut + French bean

Results (2014-15)

Particulars	Parameters of intercrops				Economics				
	Plant Height (cm)	No of branches	No of pods/plant	Length of Pods (cm)	Avg Yield (t/ha)	Gross Cost (Rs./ha)	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C ratio
TO1 (FP)	-	-	-	-	1.11	72,580	2,20,335	1,47,755	3.02
TO 2 Arecanut					1.19	72,575	2,36,215	1,63,635	3.26
+Cowpea	60.2	18.0	50.6	14.8	2.75	13,250	44,000	30,750	
TO 3 Arecanut					1.20	72,580	2,38,200	1,65,620	3.47
+ French Bean	43.7	15	38.5	13.4	3.45	15,850	69,000	53,150	

4. Pomegranate

Title of Technology	:	Evaluation of technology for management of Pomegranate wilt
Problem Definition	:	Wilt problem
Rationale	:	Eco friendly management of Wilt problem

No. of Trials : 3 **Area : 1.8 ha** **Soil Type : Red sand loam**
Farming Situation : Irrigated **Season & Year : Rabi, 2014**

Technology options being assessed along with justification | **SMS (Plant Protection)**

Technology Options	Details of technology	Source of Technology	Justification
TO 1 : FP	Application of FYM & Neem cake	-	-
TO 2: RPP	Drenching with Carbendazim @ 2gm/litre at 20 days interval.(20 litres of spray solution /plant – 3 times)	UAS B	moderately effective for the control of wilt but higher cost.
TO 3 : Alternate Practice	Application of Actinobacteria consortium @20g/lt at 15 days intervals (5 times)	IIHR	Low cost, very effective and helpful for higher uptake of nutrients and higher yield.

Results (2014-15)

Particulars	Parameters on disease incidence		Economics			
	% wilted plant	% plants recovered	Avg Yield (Ton/ha)	Gross Return (Rs/ha)	Gross Cost (Rs/ha)	B:C Ratio
TO1 (FP)	11.00	27.27	9.32	746186	142979	5.23
TO 2	9.50	73.68	12.74	1019626	151210	6.74
TO 3	9.50	84.21	13.69	1095360	138210	7.93

Frontline Demonstrations (2014-15)

Abstract of Interventions proposed based on the identified problems during (2014-15)

No.	Crop/Enterprise	Title
1.	Paddy	Combating drought vulnerability by Aerobic paddy cultivation
2.	Ragi	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365
3.	Red gram	Enhancement of Red gram yield through demonstration of BRG-4 variety
4.	Tomato	Cost effective Arka Microbial consortium for tomato production
5.		Use of Polythene mulch in tomato
6.		Arka Rakshak F1 Resistance to leaf curl,bacterial wilt, early blight in tomato
7.	Chilli	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops
8.	Brinjal	Bio- intensive Management Brinjal Shoot and fruit borer

Abstract of Interventions proposed based on the identified problems during (2014-15)

No.	Crop/ Enterprise	Title
9.	French bean	Seed production of French bean Var. Arka Suvidha
10.	Banana	Demonstration of High density planting of Banana
11.	Papaya	Demonstration of High yielding variety Arka Prabhat in Papaya
12.	Jamoon	Demonstration of Dry land Horticulture crop
13.	Mango	Cost effective Eco friendly management of fruit fly through pheromone traps in Mango
14.		Management of Mango Stem Borer by Sealer cum Healer
15.		Mango Harvester, Ripening chamber and Packing
16.	Arecanut	Management of nut splitting in Arecanut

FLD on Cereal crops

1. Aerobic Paddy Cultivation

Title	:	Combating drought vulnerability by Aerobic paddy cultivation
Thrust Area	:	Sustainability in yield through effective water management in rice (Aerobic method)
District Area, Avg Yield	:	28,260 ha, 45 qtl./ha
Problems		Water Scarcity and Low Yield
Technology demonstrated (Source)	:	Direct sowing MAS-26 (UAS- B) Along with POP (25X25 cm spacing) FYM: 10 ton/ha 100:50:50 NPK Kg/ha, Use of cono weeder & Lesser water requirement (30-40% less)
Season, Place	:	Kharif 2014, Baichenahalli, Vaddarahalli, Madde
SMS	:	Soil Science

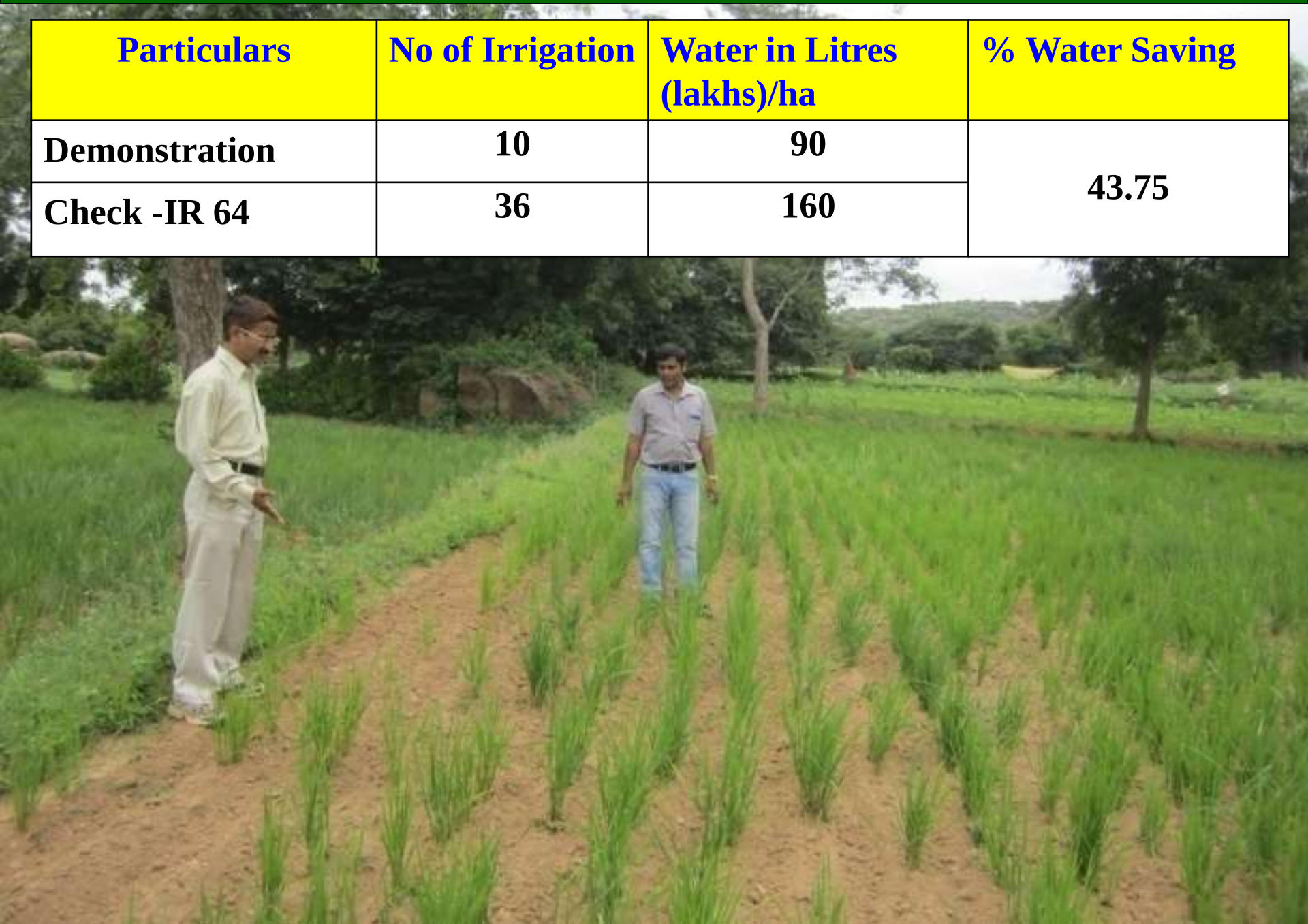
Critical inputs provided	**Area (ha)**	**No. of farmers**
Seed MAS-26 - 7kg/ha	02	5

Results 2014-15

Particulars	No of tillers /plant	Yield (q/ha)	% Increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demonstration	41.4	36.3	13.10	19,922	34,028	14,106	1.7
Check -IR 64	28.6	32.1		18,102	21,646	3,544	1.2

Water savings results

Particulars	No of Irrigation	Water in Litres (lakhs)/ha	% Water Saving
Demonstration	10	90	43.75
Check -IR 64	36	160	



FLD on Millets

2. Drought tolerant Ragi ML -365

Title	:	Addressing Drought Vulnerability by Drought tolerant Ragi ML -365
Thrust Area **District Area, Avg Yield**	:	HYV 142340 ha, 17.9 Qtl. /ha
Problems		Delayed monsoon, long duration Ragi , Moisture stress, Use of low yielding varieties
Technology demonstrated (Source)	:	Ragi (ML-365) (UAS-B) Along with POP (RDF : 50:40:25 NPK kg/ha FYM : 7.5 t /ha
Season, Place	:	Kharif 2014, Vaddarahalli, Baichenahalli, Karikythanahalli
SMS		Soil Science

Critical inputs provided	Area (ha)	No. of farmers
Ragi -60kg	3	5

Results 2014-15

Particulars	Avg. Plant height (cm)	Avg. Panicle weight (g)	Avg. Yield (q/ha)	% Increase	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C ratio
Demonstration	99.6	26.8	26.44	36.2	15,678	30,450	14,772	1.94
Check	63.2	19.4	19.4		14,448	23,162	8,714	1.60

ML-365 FLD plot

Local

FLD on Pulse crops

3. Demonstration of Red gram BRG-4

Title	:	Enhancement of Red gram yield through demonstration of BRG-4 variety
Thrust Area	:	HYV
District Area, **Avg Yield**	:	13,708 ha, 3 Qtl./ha
Problems		Use of local variety, Pod borer
Technology demonstrated (Source)	:	Variety: BRG-4 (UAS-B)
Season, Place	:	Kharif 2014 Ranganathpura,Hunasekatte, Sakshihalli
SMS	:	Plant Breeding

Critical inputs provided	Area (ha)	No. of farmers
BRG – 4 Seeds @ 15 kg/ha	**5**	**10**

Results 2014-15

Particulars	Ave.Plant height (cm)	No of Pods/plant	Avg. Yield (q/ha)	% increase in Yield	Gross Returns (Rs./ha)	Net returns (Rs./ha)	B:C ratio
Demonstration	164	120.0	9.74	24.9	48683	27109	2.27
Check (Local)	137	92.7	7.83		39130	17556	1.82

Farmer with BRG-4 FLD plot

FLD on Fruit crops

4. Arka Prabhat in Papaya

Title	:	Demonstration of High yielding variety Arka Prabhat in Papaya
Thrust area District Area and Avg Yield	:	HYV 180 ha, 76.47 Tons/ha
Problems	:	Low yielding varieties, Low
Technology demonstrated (Source)	:	High yielding Papaya Variety . Arka Prabhath, (IIHR, Bengaluru) T.S.S-12-14 ,Yield -100 Kg/Plant
Season of the Demo Place	:	Kharif 2014 Korategere (Tumkur Tq),Yallapur
SMS	:	Plant Breeding

Critical inputs provided	Area (ha)	No. of farmers
Papaya seedlings- 400 /Farmer	**01**	**03**

Results 2014-15

Particulars	Number of Fruits/ Plant	Avg. Fruit Weight (Kg)	Avg. Yield (Tons/ ha)	% Increase in yield	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C Ratio
Demonstration Arka Prabhat	48	1.13	86.78	9.8	3,82,386.7	2,95,712.0	4.4
Check (Local)	32	1.47	75.26		3,29,653.3	2,42,978.7	3.8

Advantages of Arka Prabhat

- High (14 bri.)TSS compared to Red Lady (12 bri.)
- High Consumer Preference -Optimal Size(0.8 to 1 Kg)
- Attractive Color – Golden Orange
- Less Seed Cost – our KVK is regularly producing this variety seeds.
- Lesser Seeds in fruits
- Keeping Quality is more hence suitable for longer transportation.

5. High density planting of Banana

Title	:	Demonstration of High density planting in Banana G9
Thrust Area **District Area, Avg Yield**	:	ICM 5145 ha, 28.58 Tons/ha
Problems		Low density and low yield
Technology to be demonstrated (Source)	:	Paired row planting with zig zag method 2 m x 1.2m x 1.2m Banana suckers (NRC on Banana, Trichy)
Season, Place	:	Late *Kharif*, 2014 and Puttaiayanapalya, Anupanahalli
SMS		Horticulture

Critical inputs provided	Area (ha)	No. of farmers
Banana suckers -5200, G9	**01**	**03**

Results 2014-15

Parameters	Demo Plot	Check
Plant height (ft)	5.5	5.63
Stem Girth (cm)	42.3	46
Number of leaves per plant	14	14.6

Average of 15 Plants Selected randomly from 3 farmers

Results 2013-14

Particulars	Parameters			Economics			
	Bunch Weight /plant (kg)	Fingerlings /Bunch	Avg Yield (Qt/ha)	% increased yield	Gross return (Rs/ha)	Net income (Rs/ha)	B:C ratio
Demo	**16.2**	**17.4**	**748**	**43.3**	**523600**	**377400**	**3.58**
Control	**16.9**	**18.6**	**522**		**365400**	**245600**	**3.10**

High density planting in Banana (G9) recorded highest yield (748 q/ha) with increased in percentage of yield to the tune of 43.3 as compared to the farmers practice. HDP yields higher B:C ratio of 3.58 as of check (3.10)

6. Dry land Horticulture crop - Jamoon

Title	:	Demonstration of Dry land Horticulture crop - Jamoon
Thrust Area	:	HYV
Problems		Water scarcity, drought condition
Technology to be demonstrated (Source)	:	Dupdal (High yielding varieties) (UHS, Bagalkote) High density planting-5x 5 mt
Season, Place	:	Late *Kharif* , 2014 and Yallapura
SMS		Horticulture

Critical inputs provided	Area (ha)	No. of farmers
Jamoon grafts - 160 Nos.	0.4	01

Results 2014-15

Parameters	Demo Plot
Eight months after transplanting at Main field	
Plant height (ft)	5.2
Avg. No. of branches / plant	4.0

Results 2013-14

Particulars	Plant height (ft)	Avg. No. of branches / plant
Kumar B	7.2	6.0
Badalingaiah	8.5	6.0
Narashimappa	7.4	7.0
Avg.	7.7	6.33

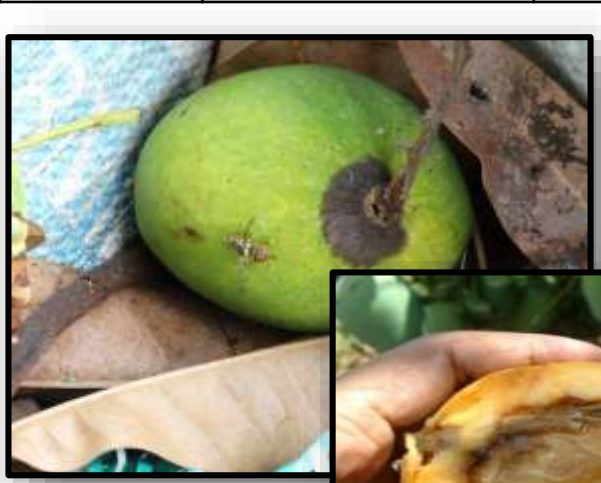
7. Management of fruit fly in Mango

Title	:	Cost effective Eco friendly management of fruit fly through pheromone traps in Mango
Thrust Area	:	IPM
District Area, Avg Yield		14085 ha, 19.21 Tons/ha
Problems		Heavy fruit infestation
Technology to be demonstrated (Source)	:	Erection of Fruit fly traps (IIHR, Bengaluru) @ 15 Nos./ha
Season, Place	:	Summer-2014, Madde, Karikytanahalli
SMS	:	Plant Protection

Critical inputs provided	**Area (ha)**	**No. of farmers**
Fruit fly traps -30 Nos.	2	05

Results 2014-15

Particulars	Parameters on Fruit fly Infestation			Economics			
	Avg. No. of Male Fruit fly Trapped/trap	% Fruit infested/unit sample (100 fruits)	% decrease in fruit infestation	Avg Yield (Tons/ha)	Gross Return (Rs/ha)	Gross Cost (Rs/ha)	BC Ratio
Demo	33	10.2	78.66	12.86	1,28,600	27,300	3.71
Check	-	47.80		6.14	61,470	26,500	1.31



8. Mango Stem Borer : Sealer cum Healer

Title	:	Management of Mango Stem Borer by Sealer cum Healer
Thrust Area	:	IPM
District Area, Avg. Yield		14085 ha, 19.21 Tons/ha
Problems		Severe Stem Borer out break
Technology to be demonstrated (Source)	:	Removal and cleaning of infested portion and immature stages of stem borer Swabbing with Dichlorovos@ 0.5% Pasting of Sealer Cum Healer at the infested portion (IIHR, Bengaluru)
Season, Place	:	Summer-2014, Kolihalli, Mangalavada
SMS		Plant Protection

Critical inputs to be provided	No. of Trees	No. of Farmers
Sealer cum Healer 1kg/tree	100	5

Results 2013-14

Parameters	Before Application	After Application
No. of grubs present (Avg.)	6.2	-
Avg. Total breadth of stem damage (cm)	28.5	-
Avg. Total length of healing of stem (cm)	-	12.6

9. Mango Harvester, Ripening chamber and Packing

Title	**:**	Demonstration on Mango Harvester, ripening chamber and Packing
Thrust Area District Area, Avg Yield	**:**	Drudgery reduction and Post Harvest Tech. 14085 ha, 19.21 Tons/ha
Problems		Lack of PHT and fruit damages
Technology demonstrated (Source)	**:**	Mango Harvester, ripening chamber & Packing of riped mango Fruits in boxes (Source : IIHR Bengaluru)
Season, Place		Summer 2015, Neralapura
SMS		Home science

Critical inputs provided	No .of Units	No. of farmers
Mango Harvester(5 Nos.), Ripening chamber(3 Nos.), Ethylene Solution-300 ml, NaOH pellets	5 (1)	5(1)

Results 2013-14

Particulars (1 Acre)	Gross Income(Rs.) from sale of Fruits	Cost(Rs.) involved in adoption of PHT	Net Income (Rs.)	% increase in Net Profit
With PHT (direct selling)	1,20,000	8,000	1,12,000	50
Without PHT (through contractor)	56,000	Nil	56,000	

FLD on Vegetables

10. Seedpro for Soil Borne Pathogens-Chilli

Title	:	Demonstration of Seedpro – A microbial plant growth promoter against soil borne pathogens in Solanaceous vegetable crops
Thrust Area		IDM
District Area, Avg Yield	:	3063 ha, 14.34 Tons/ha
Problems		Poor crop stand due to root rot and wilt
Technology to be demonstrated (Source)	:	Seed treatment with Seedpro at the rate of 50gms/kg (IIHR, Bengaluru)
Season, Place	:	Kharif, 2014
SMS		Plant Protection

Critical inputs provided	Area (ha)	No. of farmers
Seedpro -50 gm/Farmer	1	5

Results 2014-15

Particulars	% Damping off	Economics					
		Avg Yield (Tons/ha)	% increased yield	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Return (Rs/ha)	BC Ratio
Demo	9.55	24.07	24.20	61225	144451	83226	2.36
Check	28.64	19.38		64890	116286	51396	1.79

11. Management of Brinjal Shoot and fruit borer

Title	:	Bio- intensive Management Brinjal Shoot and fruit borer
Thrust Area **District Area, Avg Yield**	:	IPM 428 ha, 25 Tons/ha
Problems		Severe incidence of fruit and shoot borer
Technology to be demonstrated (Source)	:	Erection of pheromone trap @ 1 for 400 sq.m. (Lure changed once in 21 days) Release of *T.chilonis* @ 50,000/ha Bt spray at peak flowering @1ml/L two times (IIHR, Bengaluru)
Season, Place	:	Kharif, 2014
SMS		Plant Protection

Critical inputs provided	Area (ha)	No. of farmers
Pheromone trap , T.chilonis eggs & Bt Formulation	**1**	**05**

Results 2014-15

Particulars	% shoot infestation	% fruit infestation	Avg marketable Yield (Tons/ha)	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net returns (Rs/ha)	B:C Ratio
Demo	5.32	11.89	27.96	66421	223733	157312	3.36
Check	30.11	33.95	15.97	70457	127792	57308	1.81

12. French bean Var. Arka Suvidha

Title	:	Seed production of French bean Var. Arka Suvidha
Thrust area **District Area, Avg Yield**	:	Sustainable Farm Income through Seed Production 186 ha, 11.38 Tons/ha
Problems	:	Non availability of quality seed of improved varieties, Market price fluctuation if grown as vegetable
Technology demonstrated (Source)	:	Arka Suvidha seeds – 65kg. Seed treatment with Trichoderma- 5g/kg Seed production package (IIHR, Bengaluru)
Season of the Demonstration, Place	:	Kharif / Rabi 2014 & Makanahalli,Puttayaanpalya,Hunasikatte
SMS		SMS (Plant Breeding)

Critical inputs provided	Area (ha)	No. of farmers
Arka Suvidha-65kg /ha, Trichoderma-1 kg	02	10

Results 2014-15

Particulars	Seed Yield (kg/ha)	% Increase over check	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	B:C Ratio
Demonstration (Seed production of A Suvidha)	987.5	38.11	31,622	98,775	67,152	3.86
Check (Seed Production of Local variety)	715.0		31, 622	71,540	39,917	2.26

Results 2014-15

Particulars .	% Disease Incidence (ELB)	Fruit Yield (Tons /ha)	% Increase	Gross Cost (Rs./ha)	Gross Returns (Rs./ha)	Net Returns (Rs./ha)	BC Ratio
Arka Rakshak Tomato	12	29.0	67.63	44625	1,48,250	1,03,625	3.35
Check	38	17.3		50650	86,250	35,600	1.70

14. Polythene mulch in Tomato

Title	:	Use of Polythene mulch in tomato
Thrust Area **District Area, Avg. Yield**	:	ICM 916 ha, 35 Tons/ha
Problems		Water scarcity, soil borne diseases and pest incidence and problem of weed menace in vegetables cultivation
Technology to be demonstrated (Source)	:	Use of polythene mulch for mulching in tomato production (IIHR, Bengaluru)
Season, Place	:	Rabi, 2014 and Madde, Karadegere, Devarayanpattana,, Chikkasarangi
SMS		Horticulture

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

Demo plots

With out mulching

Results 2014-15

Particulars	Parameters			Economics			
	No of fruits /plant	Fruit weight (g)	Avg Yield (t/ha)	% increased yield	Gross Income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demo	48	97.5	76.25	14.66	3,05,000	2,39,150	4.62
Control	39	59.2	66.5		2,66,000	1,89,800	3.48

Benefits :

- **Addl. yield of 10 t /ha = Rs. 40,000/-**
- **More crop per unit of water (2 acres can be irrigated instead of one by using plastic mulch)**
- **Only family members could manage to weed out and not depended on external labours**
- **Harvested more yield and good quality fruits.**
- **Water saved (50%)**

15. Arka Microbial consortium for Tomato production

Title	:	Cost effective Arka Microbial consortium for tomato production
Thrust Area **District Area, Avg Yield**	:	INM 916 ha, 35 Tons/ha
Problems		Low nutrient use efficiency and soil fertility
Technology to be demonstrated (Source)	:	Microbial consortium 25g/ltr drenching FYM 25 t/ha RDF 135:75: 60 NPK kg/ha (IIHR, Bengaluru)
Season, Place	:	*Kharif*, 2014, Madde, Devarayapattana
SMS		Soil Science

Critical inputs provided	Area (ha)	No. of farmers
Arka Microbial consortium 25 g/ltr drenching , 2 kg/Farmer	2	5

Results 2014-15

Particulars	Seedling root length (cm)	Seedling height (cm)	Yield (t/ha)	% Increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demonstration	7.06	16.88	51.68	18.42	63120	210020	146900	3.3
Check	4.92	12.98	43.64		60780	178760	117980	2.9

FLD on Plantations

16. Nut splitting in Arecanut

Title	:	Management of nut splitting in Arecanut
Thrust Area **District Area, Avg Yield**	:	INM 19,000 ha, 18 Qtl/ha
Problems		Severe nut splitting and yield loss
Technology to be demonstrated (Source)	:	Borax -30 g/tree Along with POP (FYM 12 kg/tree RDF 100: 40: 140 NPK g/tree) (IIHR, Bengaluru)
Season, Place	:	Kharif/Rabi and Kolihalli , Kyathasandra and D Nagenahalli
SMS		Soil Science

Critical inputs provided	Area (ha)	No. of farmers
Borax -30 g/tree	02	5

Results 2014-15

Particulars	No of nuts /bunch	% Nut splitting incidence	Yield (Qtl/ha)	% Increase	Gross Cost (Rs/ha)	Gross Return (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Demonstration	350.2	3.4	9.54	12.5	38512	188740	150228	4.9
Check	294.2	12	8.48		37693	171164	133471	4.5

NATIONAL INITIATIVE ON FODDER TECHNOLOGY DEMONSTRATION (2014-15)

Fodder Crop Demonstrations NIFTD (2014-15)

Sl. No.	Crop - Variety	Number of Demonstration	Average Green Fodder yield /Cutting	% Increase in Milk yield
1	Fodder Sorghum – COFS 29(Multi cut)	18	15.75 Tons/ha	8.82
2	Fodder Cow pea– CO(FC) 8 (single cut)	5	2.10 Ton/ha	9.13
3	Napier Grass CO-4	3	21.6 tons/ha	12.6

Fodder Seed production and slip multiplication at KVK farm (2014-15)

Sl no	Name of Seed Crop used and variety	Seed yield(kg) or planting material	Rate at which the seed being sold, Rs per kg	Straw yield, q (in seed crop)
1	Fodder Sorghum CO (FS)-29	90	500	3
2	Fodder cowpea CO (FC)-8	35	500	0.7
3	Napier Bajra CO-4	10000 No,s	Rs.1/ cutting	5

NB Grass- CO-4

Fodder Cow pea CO(FC)-8

Fodder Sorghum CO(FS)-29

Horti pasture – CO4 in Coconut

Farmers Field School(2014-15)

Farmers Field School (2014-15)

Particulars	Details
Crop	Sweet Corn
Village	Rasal Palya
Main Farmer	Sri Chikkanna
Area	0.4 ha
No. of meetings organized	8
No. of visits made	14
Corn yield	11.9 t/ha
Fodder yield	10 t/ha
Major problem faced	Wild bore Menace

FFS on Sweet corn - Hirehalli

Training Programmes (2014-15)

Training programmes conducted during 2014-15

Type of Programme	No. of Programmes	No. of Participants		
		Male	Female	Total
On Campus				
Vocational	2	46	0	46
Extension Functionaries	4	83	15	98
Sponsored	4	60	49	109
Rural Youth	2	26	0	26
General	8	118	10	128
Total	**20**	**333**	**74**	**407**

Training programmes conducted during 2014-15

Type of Programme	No. of Programmes	No. of Participants		
		Male	Female	Total
Off Campus				
Horticulture	04	15	11	26
Soil Health	10	56	44	100
Production of inputs	03	119	03	122
Plant Protection	01	30	01	31
Crop production	08	383	55	438
Livestock management	02	46	19	65
Total	**28**	**649**	**133**	**782**
Grand Total	**48**	**982**	**207**	**1189**

ON CAMPUS TRAINING PROGRAMMES

Mushroom Cultivation

Training on Fruit crops production

IPM in Vegetables

Soil Health

ON CAMPUS TRAINING PROGRAMMES

Soil and water conservation

ICT in Agriculture

Dry land Horticulture

Organic farming

OFF CAMPUS TRAINING PROGRAMMES

Use of Biofertilizers in Horticulture

Soil and water sampling

Integrated farming system

Soil and water conservation

Training to Extension functionaries

Importance of Soil and leaf testing

Training on Recent forage crops for KMF staff

Vocational Training

Coconut Friends- Palm Climbing and Plant Protection

Honeybee Keeping

Extension Activities (2014-15)

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	Total
Advisory Services	552	2774	123	2897
Diagnostic Visits	99	209	17	226
Field Days	5	491	29	520
Farmers Visit to KVK	397	1713	126	1839
Lectures Delivered as Resource Person	47	3301	109	3410
Film Show	11	189	36	225
Kisan Mela	4	215	17	232
Exhibition	14	25853	3267	29120
Scientists' visit to farmers field	26	75	23	98
Plant/animal health camps	2	65	8	73
Self Help Group Meetings	3	113	2	115
Celebration of important days	8	235	72	307
Exposure visits	4	171	9	180
Total	**1172**	**35404**	**3838**	**39242**

Kisan Mobile Advisory Services (2014-15)

Month	No. of SMS sent	No. of farmers to which SMS was sent
April 2014	3	1017
May	1	764
June	7	1217
July	5	1592
August	3	875
September	2	875
October	2	957
November	6	1018
December	5	1279
January 2015	3	1289
February	3	1017
March 2015	1	764
Total	**37**	**10883**

Exhibitions

Krishi Mela at IIHR

Exhibition at CHES Chetahalli

Krishi Mela at IIHR

Guest Lectures

SKRDP Programme

POP in Ragi at DATC

Field Visits / Diagnostic Visits

Banana problematic field visit

Areca nut inflorescence die back

Brinjal field visit

Pomegranate field visit

Field Days

Chilli Field day at Madde village

Ragi Field day at Vaddarhalli,TMK tq

Tomato polymulch Field day at Karadegere village

Aerobic Paddy Field Day–MAS 26 Vaddarahalli Koratagere

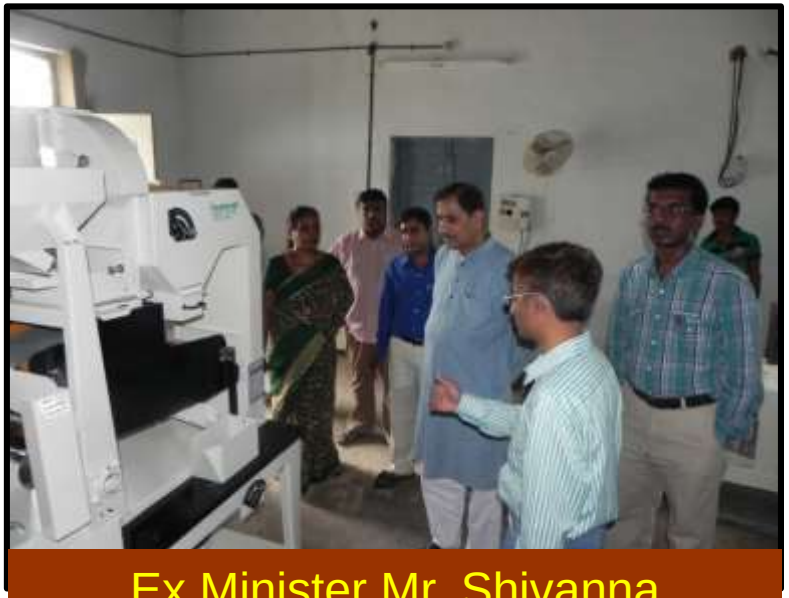
Awareness programmes

Animal feed & Fodder programme with NIANP

Workshop on Animal Nutrition KVK & NIANP

Delegates visit to KVK Hirehalli

JDH from Lalbhag



Ex Minister Mr. Shivanna

Officers from UHS Bagalkot

Scientists from ICRISAT

Delegates visit to KVK Hirehalli

Delegates from Afghanistan

Smt. Jayasri , MP

Delegates from ZPD -I

Mr. Sudakarlal MLA Koratagere

Awards / Recognition

Details of Print & Electronic Media Coverage (2014-15)

Sl. No.	Nature of literature/publications	No. of Copies/Programmes
1.	Technical Reports	4
2.	News paper articles	20
3.	News letters	4
4.	Radio talks	5
5.	TV coverage	3
6.	Website	1
7.	KVK Brochure(English & Kannada)	2

Details of Print & Electronic Media Coverage (2014-15)

FARMER'S NOTEBOOK

Poly mulching helps small tomato grower harvest more

The crop generated a gross profit of Rs. 3.25 lakhs in 150 days

M.J. PRABU

Summer season is a time of worry for most farmers across the country since water becomes an important, and much sought after commodity.

"Though water harvesting and conservation are being encouraged by the government the number of farmers adopting it is still quite negligible in the country," says Dr. Sreenath Dixit, Zonal Project Director, ICAR, Hebbal, Bangalore.

What do farmers who own small acres do?

"Naturally we cannot expect them to dig a small pond to collect rainwater since it eats away into their cropping area. For such growers we have introduced the poly mulching technology. This method is already in existence and proven in some parts of the country. It has helped small farmers cultivate vegetables well," he says.

MINIMAL PEST: *The seedlings were grown on raised beds with poly mulch film laid with drip irrigation..*- PHOTO: SPECIAL ARRANGEMENT

Old practice

Mulching is an age old practice of mixing dried leaves, twigs, stalk etc into the soil to improve its fertility condition and conserve moisture.

It is common in organic cultivation methods. In modern conventional methods plastic sheets are being used.

The sheets are laid on the field by a machine on top of the furrows and seedlings are planted in small holes made on the sheets.

Plastic sheets have been found to conserve soil moisture because the water that gets evaporated from the soil in the open, condenses on the lower part of the sheet as small droplets and falls back into the soil.

The Krishi Vigyan Kendra (KVK) under Indian Institute of Horticultural Research (IIHR, Bangalore) at Hirehalli, Tumkur, Karnataka, initiated demonstrations to popularise this practice in the region.

This technology is quite popular in Tamil Nadu especially in dharmapuri areas and Tamil Nadu Agricultural University, Coimbatore have been popularising this method through thier precision technology system.

Two acres

A small farmer, Saroja, from Deverayanapatna village in Tumkur taluk, with two acres, was encouraged to grow the tomato variety arka samrat released by Indian Institute of Horticultural Research (IIHR) under this technology.

The normal duration of this variety is 135-140 days only but due to the impact of polythene mulching, the crop period extended to 10-15 days more.

The farmer harvested nearly 32 tonnes from an acre in 150 days and sold them at Rs.10 per kg in the local market. She earned a gross profit of Rs. 3.25 lakhs in 150 days. Total cost of cultivation was Rs.60,000 per acre and the farmer earned a net profit of Rs. 2.65 lakhs in five months.

Advise

"I used to grow only ragi and some paddy crops and was unable to get a profit from these due to lack of technical knowhow and labour scarcity. I happened to visit the KVK at Hirehalli and based on their advice, decided to grow arka samrat tomato during summer," she says.

The tomato seedlings were grown on raised beds with poly mulch film laid with drip irrigation.

A package of practices like mulching was suggested which minimised the incidences of pests and viral diseases.

Farmers from surrounding villages, on seeing her field, were quite impressed by this technology since it reduces water requirement, prevents moisture evaporation, brings down pests and diseases. The fruits obtained are of better quality and colour, which fetch better price in the market, according to Dr. Loganandhan, programme co-ordinator, Hirehalli, KVK.

"Initially very few farmers expressed willingness to [adopt] this method. Many were just silent spectators. But after they saw Ms. Saroja's success they have been approaching our office to replicate the same for them," says Loganandhan.

Award

The farmer was conferred the Best Progressive Farmer Award in Tomato by the Indian Council of Agricultural Research (ICAR) on the annual foundation day held recently at IIHR in Bangalore.

For more information regarding details interested farmers in the region can contact Dr. Loganandhan, programme co-ordinator, KVK, Hirehalli, Tumkur- 572 104, ph: 0816-2243175, Fax - 0816-2243177, e-mail: iihrkvk@gmail.com, mobile: 08277252098.

Details of News letter, Brochure and Website (2014-15)

Krishi Vigyan Kendra, Hirehalli

Indian Institute of Horticultural Research

Tumkur-572168, Karnataka

July - September 2014
Quarterly

News Letter

Volume - 10 Issue - 3

Significant Events

CELEBRATION OF 86th ICAR FOUNDATION DAY ON 16th JULY, 2014 AT IIHR, BANGALORE

As per the directions of ICAR, felicitation to NICRA farmers by giving "Smart Farmer Certificate" was also conducted. Fifty farmers of NICRA project village D.Nagenahalli were given certificates. A special event called "Farmers' View" was also part of the celebration. About 120 high school and pre-university college students, teachers, 90 selected farmers from Tumakuru, Kolar, Chikkaballapur and Bangalore Rural Districts, about 280 staff members of IIHR were also present. Three innovative farmers were felicitated during the programme. Smt. Saroja, 'Arka Rakshak' Tomato Demonstration Farmer from Devarayapattana,Tumakuru District was one among them.

5th Scientific Advisory Committee (SAC) Meeting held at KVK, Hirehalli (Tumakuru District)

Krishi Vigyan Kendra, Hirehalli,Tumakuru District conducted 5th SAC meeting on 30th Sept 2014 under the Chairmanship of Dr. T.Manjunatha Rao, Director, Indian Institute of Horticulture Research (IIHR), Bangalore. In the presidential address he appreciated the initiatives and efforts of faculty of KVK in overall development and dissemination of the need based technologies for the benefit of the farming community of the district. He also, emphasized on the importance of farm mechanization in the present agricultural scenario and the large scope for cultivation of fruit, flower and vegetables in the district. Dr. Loganandhan N., Programme Coordinator of KVK presented the progress report for the year 2013-14 and plan of work for the forthcoming season. On the occasion, KVK website - www.iihrkvk.org - was launched by the Director. The updated KVK Brochure was released by Dr. Raghavendra Bhatta, Director, NIANP, Bengaluru, in presence of Dr. B.T.Rayudu, and Dr.Sairam, Principal Scientists, ZPD, Bangalore. Dr.Rayudu lauded the accomplishments of KVK in transferring the need based technologies to the farming community of Tumakuru district very effectively and the support extended by the host institute for overall development of the Kendra. The participants included Dr.M.R.Hegde, Principal Scientist, RPMEC, Dr.L.B.Naik, Principal Scientist, Section of Seed Science technology, Dr.Tejaswani, Principal Scientist, Division of Ornamental crops, IIHR, Bangalore, Dr.G.S.Karibasappa, Principal Scientist and

Head, Dr.G.Karunakaran, Senior Scientist, CHES, Hirehalli, and Dr.Saju George, Programme Coordinator, KVK, Gonikoppal, Dr.Sukanaya, Programme Coordinator, KVK Konehalli, Tiptur who shared their valuable suggestions.

During the meeting, the officials from the different line departments, NGOs, NABARD, Lead Bank and Progressive farmers offered their valuable suggestions for effective implementations of various programmes in the ensuing season. On the occasion, exhibitions depicting different technological products produced in the KVK Instructional farm were displayed for the benefit of the participants. A total of 58 official, non official, special invitees and progressive farmers were participated in the meeting. Finally the meeting was concluded with Vote of Thanks by Mr.Ramesh P.R, SMS (Soil Science). The event was anchored by Mr.Jagadish, SMS (Extension), KVK, Hirehalli.

Krishi Vigyan Kendra (IIHR), Hirehalli, Tumakuru A conducted fifth Scientific Advisory Committee (SAC) meeting on 30th Sept 2014

Krishi Vigyan Kendra, Hirehalli 1

Details of Print & Electronic Media Coverage (2014-15)

Swachch Bharath Abhiyan (2014-15)

Human Resource Development (2014-15)

Name of the Staff	Designation	Title of the training programme	Institute where attended	Dates
N.Loganandhan	Programme Co-ordinator	Technology Management in Agriculture for KVK Professionals"	NAARM, Hyderabad	9th -11th Jun, 2014
		Management Development Programme	NAARM, Hyderabad	10th Nov to Dec 6th, 2014
K.N.Jagadish	SMS-Agril. Extension	Participatory Impact Monitoring and Assesment (PIMA)	KVK Erode, Arepalayam Campus	19th - 24th Nov 2014
B.Hanumanthe Gowda	SMS-Plant Protection	Innovative approaches in Plant Disease Management	GBPUA &T, Pant Nagar, Uttarakhand	2th -22nd October 2014

PRA activities in newly selected villages (2015-16)

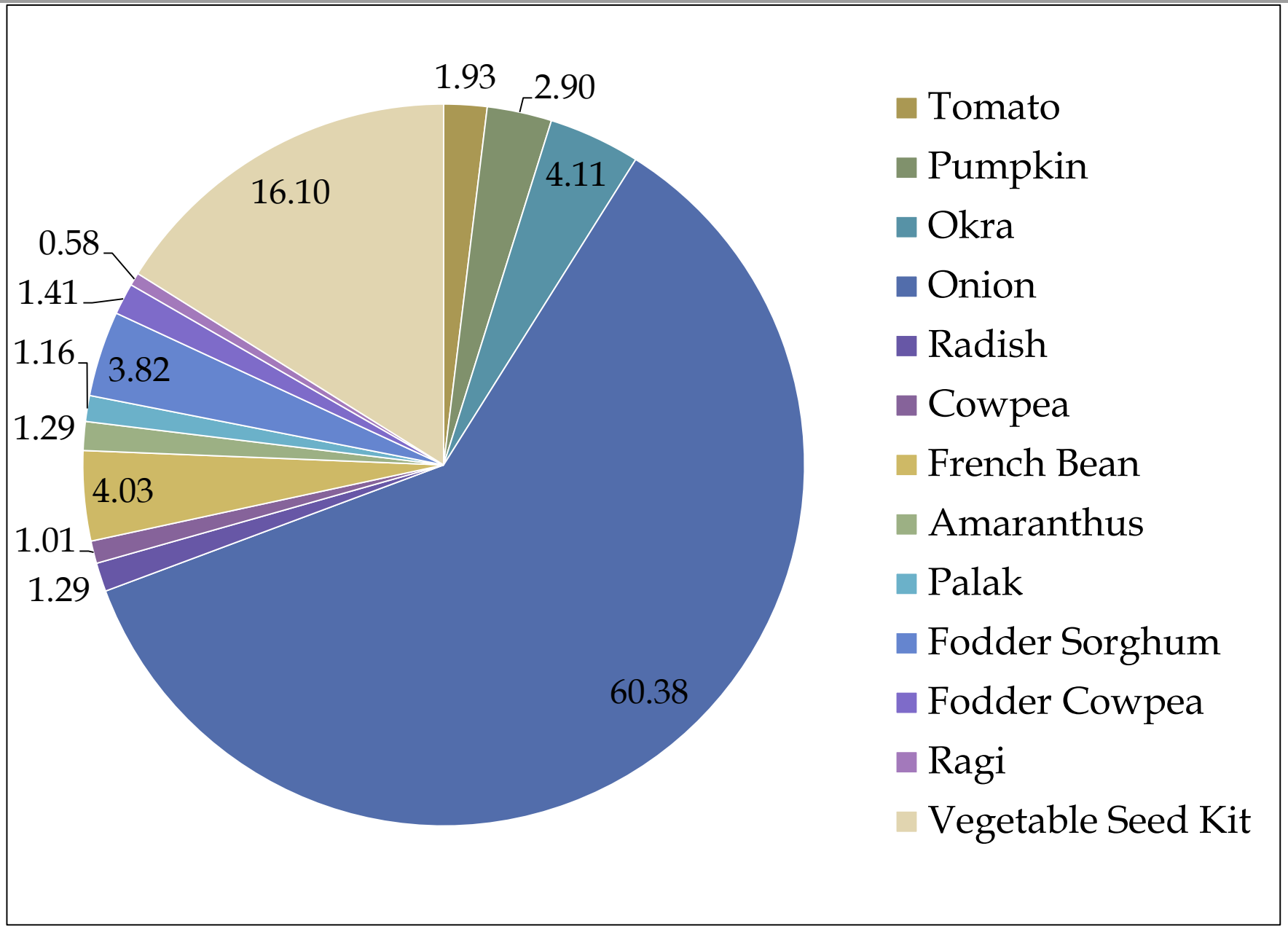
Taluks	Villages
1. Tumakuru	Kaderanahalli
2. Koratagere	Thanganahalli
3. Madhugiri	Muthyalammanahalli
4. Sira	Balenahalli
5. Pavagada	Thimapura

Production and sale of Seeds, Planting Materials and Other Bio-products (2014-15)

Targets and achievements (2014-15) Of Seed Production

Sl No.	Name of the crops	Name of the variety	Quantity (kg)/ No. produced		Rate of sale (Rs.)	Total Value (Rs.)
			Targets [kg]	Achieved [kg]		
1	Tomato	Arka Meghali	30	12	2000	24,000
2	Pumpkin	Arka Suryamukhi	--	45	800	36,000
3	Okra	Arka Anamika	200	102	500	51,000
4	Onion	Arka Kalyan	200	500	1500	7,50,000
5	Radish	Arka Nishant		40	400	16,000
6	Cowpea	Arka Garima	600	50	250	12,500
7	French Bean	Arka Suvidha	600	200	250	50,000
8	Amaranthus	Arka Suguna	50	40	400	16,000
9	Palak	Arka Anupama	--	48	300	14,400
10	Fodder Sorghum	CO(FS) - 29	--	95	500	47,500
11	Fodder Cowpea	CO(FC) - 8	--	35	500	17,500
12	Ragi	ML 365	--	180	40	7,200
Total			**1680**	**1347**		**10,42,100**
13.	Vegetable Seed Kits	10 different vegetable seeds	--	2000 (No,s)	100	**2,00,000**

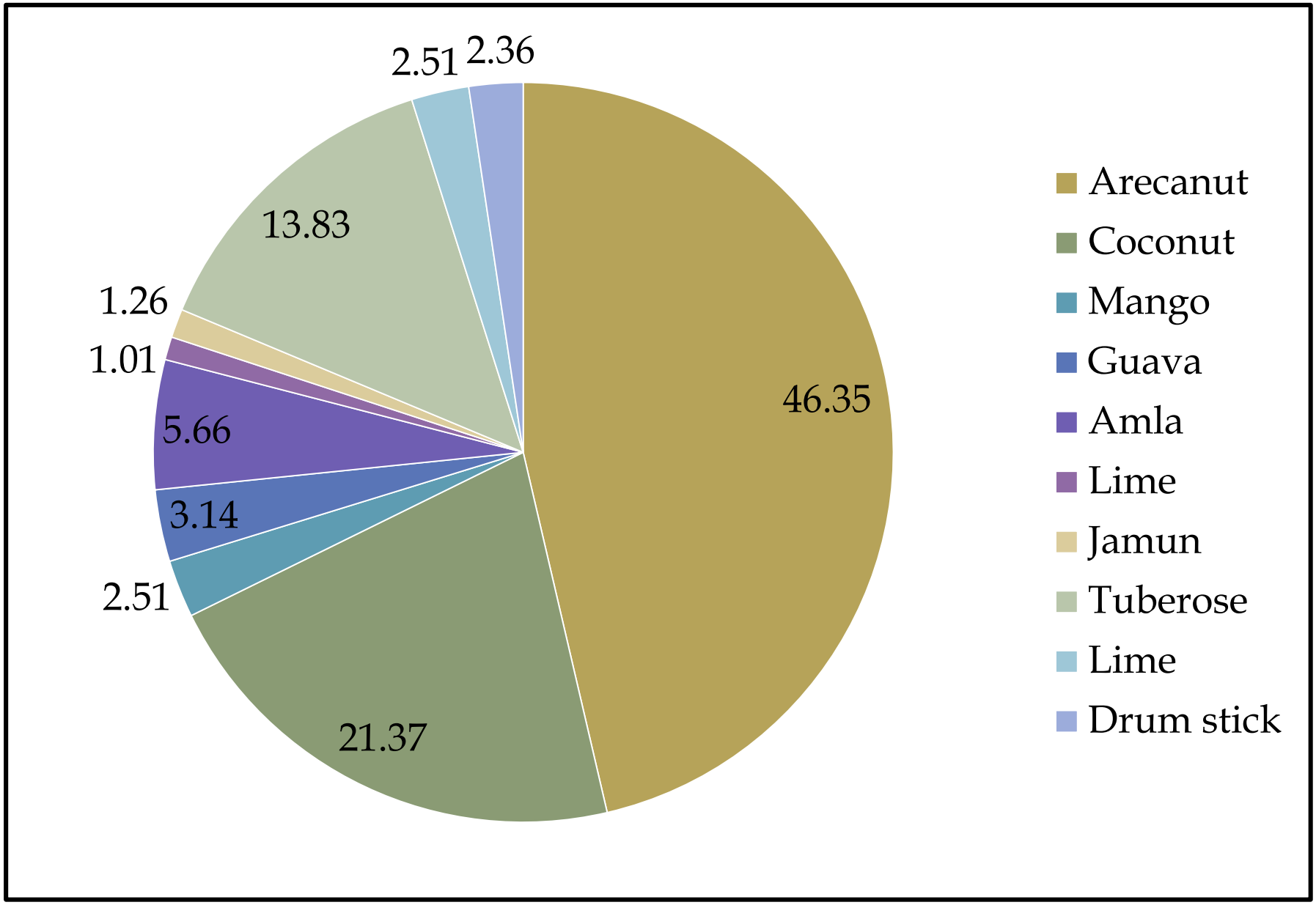
Percentage share in Total value



Production of planting materials by the KVKs

Crops	Variety/ Hybrid	Achievement (Nos)	Rate of sale (Rs.)	Total Value (Rs.)
Areca nut	Hirehalli tall	17500	5	87500
	Sprouts	3000	20	60000
Coconut	Arsikere tall	850	80	68000
Mango	Alphanso, Mallika, Dashehari	200	40	8000
Guava	AS, Pink flesh, L-49	250	40	10000
Amla	NA-4,5,7	450	40	18000
Lime	Seedless	80	40	3200
Jamun	Gokak	100	40	4000
Tuberose	Arka Prajwal Arka Viabhav Arka Suhasini	22000	2	44000
Lime	Kazi Lime	400	20	8000
Drum stick	PKM-1	750	10	7500
	Total	**45580**	**337**	**3,18,200**

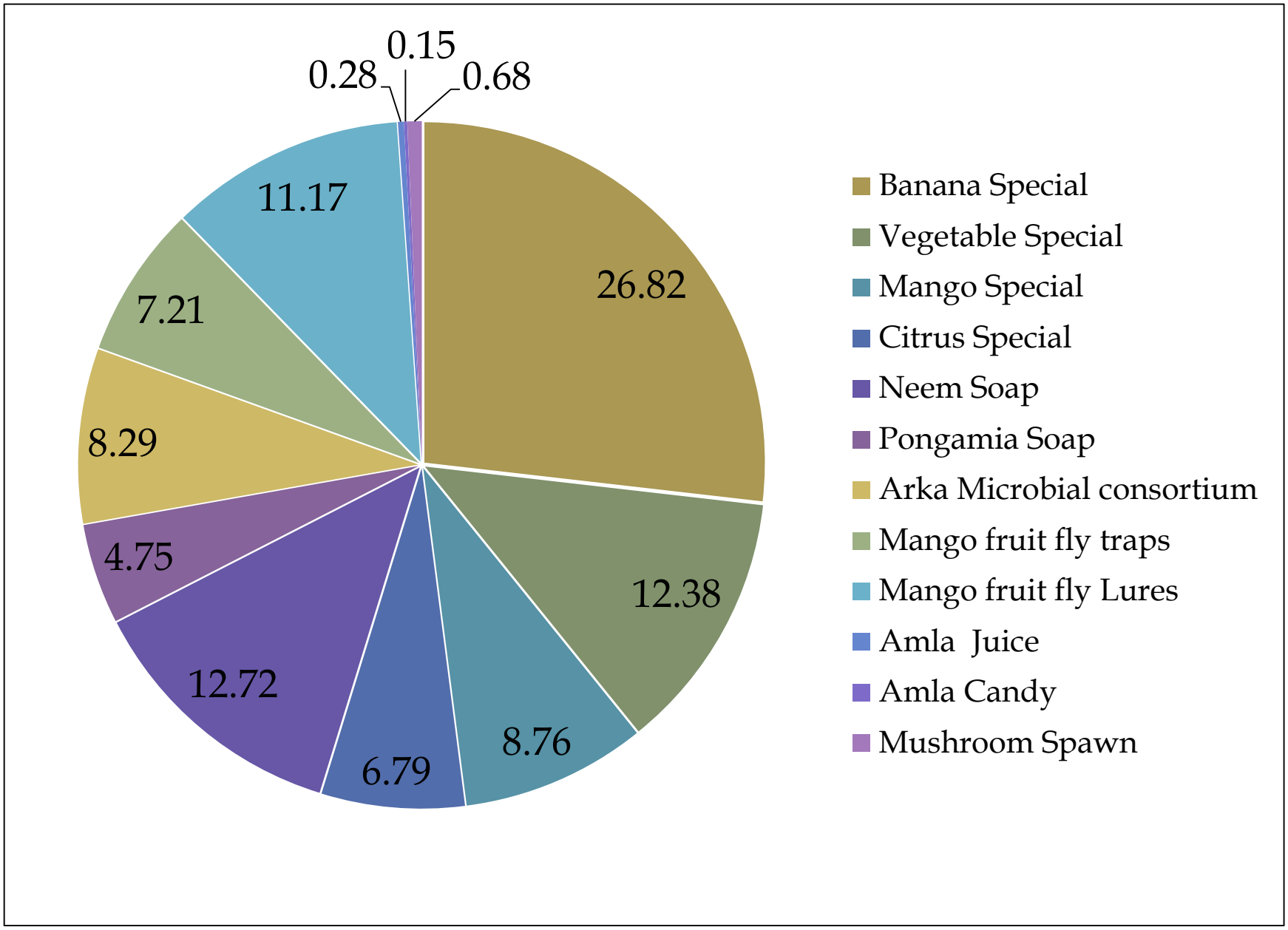
Percentage share in Total value



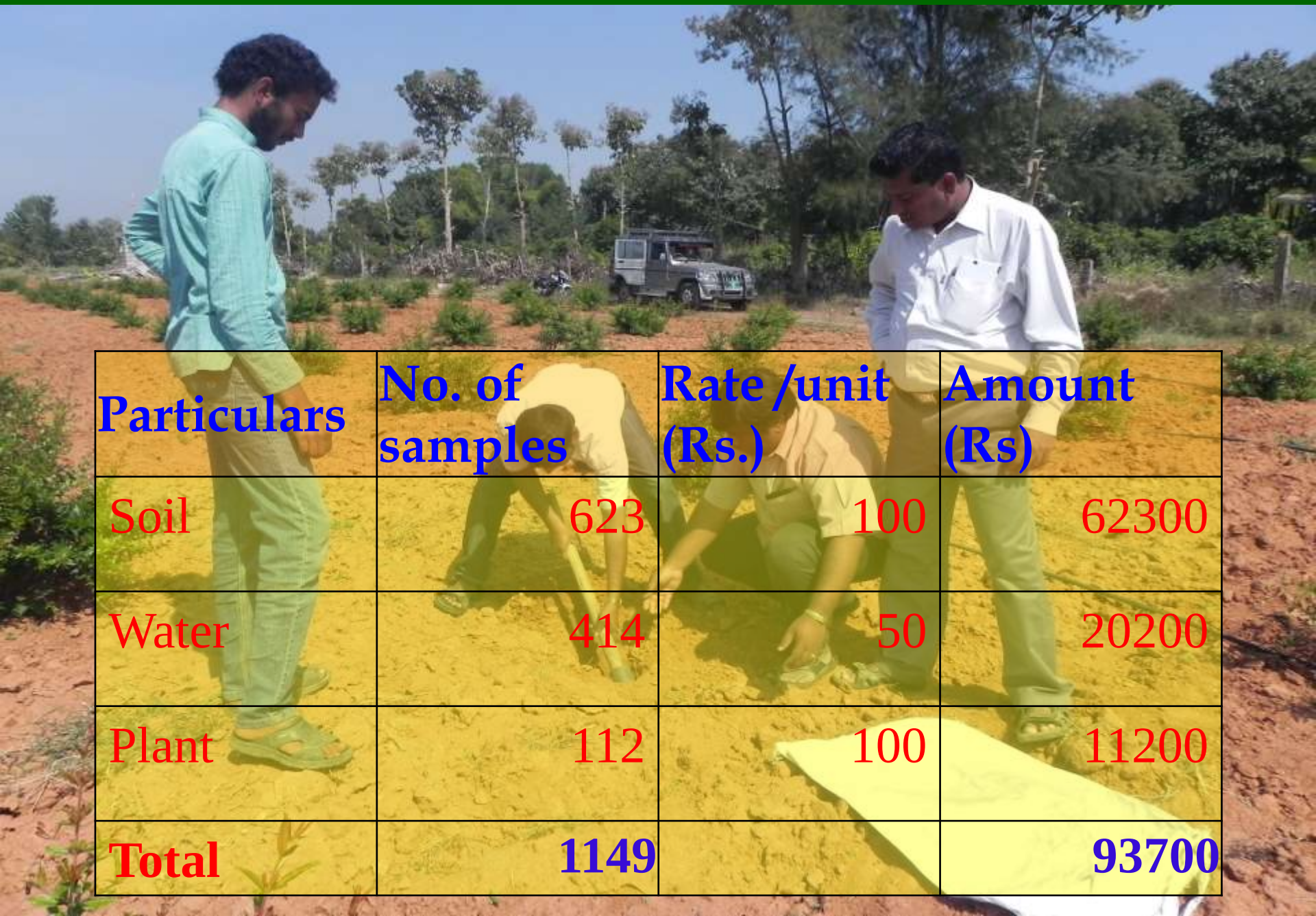
Production of Bio-Products

Bio Products	Name of the bio-product	Qty (Kg)	Value (Rs.)	No. of Farmers
Micro Nutrient Fertilizers	Banana Special	4345	651750	1512
	Vegetable Special	2066	300900	852
	Mango Special	1422	213000	820
	Citrus Special	1100	165000	52
Bio-pesticides	Neem Soap	2110	309025	1238
	Pongamia Soap	924	115500	464
Bio-Fertilizer	Arka Microbial consortium	2686	201450	110
Pheromone Traps	Mango fruit fly traps	8763	175260	730
Pheromone Lures	Mango fruit fly Lures	13570	271400	862
Others	Amla Juice	68	6800	60
	Amla Candy	15	3750	35
	Mushroom Spawn	276	16560	123
Total		**37345**	**24,30,395**	**6858**

Percentage share in Total value



SWTL Analysis



Particulars	No. of samples	Rate /unit (Rs.)	Amount (Rs)
Soil	623	100	62300
Water	414	50	20200
Plant	112	100	11200
Total	**1149**		**93700**


New Developments at
KVK Farm (2014-15)

New Developments at KVK Farm (2014-15)

1. Borewell, Water storage structure, Shade net – NHM
2. Farm Pond, Sprinkler Irrigation System – Krishi Bhagya Scheme
3. Fodder Block- NIFTD

NHM activities, Graviola block

Water storage structure

Borewell under NHM project

Shade net – Seedling production

Krishi Bhagya Scheme

Interventions	Justification	Area /No.	Cost per unit *or* per ha, Rs.	Total budget Rs.
1.Farm pond in black soil with plastic lining 10mtx10mtx3mt	Storage of runoff, supplementary irrigation,	300 Cum	49000	49000
2.Diesel pump 4 hp	Lifting of water from farm pond	-	30000	30000
3. Micro irrigation Sprinkler set	Efficient use of water	1 ha	25000	25000
4.Field demonstration	Irrigation under critical stages	1 ha	50000	72000
5.Trench cum bunding	Reduce soil erosion and water retention	1 ha	15000	15000
6.Livestock Improved Cow	For higher milk yield and dung and urine for compost	01	59000	59000
			Total	**250000**

Krishi Bhagya Scheme

Farm Pond –Krishi Bhagya Scheme

Fodder Block developed at KVK farm during 2014-15

Fodder Cow pea-CO (FC)-8

Cow pea and Napier Bajra

Fodder Sorghum-CO (FS)-29

Fodder Cactus

Additional Activities- Externally Funded Projects

Externally Funded Projects

Name of the Project	Source of Fund	Amount (Rs.)
Participatory Vegetable Seed Production and distribution system	RKVY, GOK	40 Lakhs
Technology demonstration component of NICRA	CRIDA, ICAR	18 Lakhs (2014-15)

Rashtriya Krishi Vikas Yojana

Participatory Seed Production and Distribution System for Recently Released Vegetable Cultivars

1.Equipments of Vegetable Seed Processing Procured.
2.Seed bank/Storage structure of Capacity 2000 kg of Vegetable seeds completed.
3.Seed Processing Unit construction work started.
4.Farmer Participatory Seed Production of Vegetable seeds Initiated

Vegetable seed storage and Seed sales unit

Machines purchased

Vegetable seed Processor

Seed packing machine

National Innovation in Climate Resilient Agriculture (NICRA)

Modules

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



Module I - Natural Resources

Sl. No.	Intervention	Area (ha)/Nos.	No of stakeholders
1	Trench cum bunding	16	20
2	Levelling and bunding	4	9
3	New dugout farm pond	4 Nos.	7
4	Plastic lining of farm pond	1 No.	1
5	Rejuvenation of farm pond	4 Nos.	8
6	Heightening of check dam	2 Nos.	5
7	Bio digester	2 Nos.	2
8	Pit making for planting of dryland fruit crops seedlings	900 Nos.	8
9	Tree based farming	4500 Nos.	50
		Total	**110**

Module II - Crop Production

Sl. No.	Seed Type	Variety	Quantity (kg)	Area (ha)	No of Stakeholders
1	Ground nut	ICGV-9114	60	1	2
2	Red gram	BRG-2	30	3	32
3	Red gram	BRG-4	20	5	15
4	Aerobic paddy	MAS-26	12	2	4
5	Dolichos	Arka Amogh	10	2	15
6	Foxtail millet	-	16	0.4	9
	Total			**13.4**	**77**

Module IV - Institutional Interventions

New Village Climate Risk Management Committee (VCRMC)

Members	Meetings held	Decisions taken
President Ramanjaneya **Vice President** Bandeppa **Secretary:** Nagarajaiah **Members:** Kemparaju, Narasimhanna, Sabjan Sab, Rajanna, Basha Sab Nagaraju	22.09.2014 14.10.2014 10.11.2014 13.12.2014 19.01.2015 16.02.2015 09.03.2015	NRM works Change of rent for diesel engine Smooth running of CHC Impact of NICRA intervention Selection of farmers for NRM works Verification of stock register of CHC Makeshift for CHC

Status of Revolving Fund (Rs.)

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2013 to March 2014	19,88,575	37,35,246	32,87,560	24,36,261
April 2014 to March 2015	24,36,261	49,60,840	39,34,815	34,62,286

Utilization of KVK funds during the year 2014-15 (Rs.)

	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	Rs.83.15	Rs.83.15	8314575
2	Traveling allowances	Rs. 1.14	Rs. 1.14	118378
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	*Rs. 0.50*	*Rs. 0.50*	49893
B	POL, repair of vehicles, tractor and equipments	*Rs. 0.50*	*Rs. 0.50*	50000
C	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)	*Rs. 0.20*	*Rs. 0.20*	*20000*
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	*Rs. 0.20*	*Rs. 0.20*	20000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	*Rs. 2.15*	*Rs. 2.15*	*215000*
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	*Rs. 0.45*	*Rs. 0.45*	45000
G	Training of extension functionaries	*Rs. 0.10*	*Rs. 0.10*	10000
H	Maintenance of buildings	*Rs. 0.10*	*Rs. 0.10*	10000
J	*Extension Activities*	*Rs. 0.10*	*Rs. 0.10*	-
K	*Farmers' Field School*	*Rs. 0.10*	*Rs. 0.10*	10000
L	*NIFTD*	*Rs. 0.10*	*Rs. 0.10*	10000
M	*Library (Purchase of Journal, Periodicals, News Paper & Magazines)*	*Rs. -*	*Rs. -*	10000
TOTAL (A)		**88.79**	**88.79**	**8882846**
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	-	-	-
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	-	-	-
TOTAL (B)		-	-	-
C. REVOLVING FUND				**3934815**
GRAND TOTAL (A+B+C)		**88.79**	**88.79**	**1,28,17,661**


Thank You!!