ICAR-Krishi Vigyan Kendra, Hirehalli Tumakuru District









(For the Period from 01January 2021 to 31 December 2021)



ICAR-Krishi Vigyan Kendra, Hirehalli Hirehalli, NH-48, Tumakuru District Karanataka-572168

ICAR-Indian Institute of Horticultural Research Hesaraghatta Lake Post, Bengaluru - 560 089

GENERAL INSTRUCTIONS

Please read the following instructions very carefully before starting preparation of the report.

- Annual report is the most important document for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care needs to be given by each KVK while preparing the report.
- Period of Report is from 01 January, 2021 to 31 December, 2021.
- Action photographs with relevant captions covering all OFTS/FLDS/TRAINING/EXTENSION activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report. A part from this, soft copy of the activity wise photos may be submitted in JPEG format.
- Prepare Summary tables carefully tallying with the relevant portions of the main report on all aspects.
- Retain the blank column and rows as such and do not merge the cells. Please specify NIL, wherever not applicable or details are not available.
- Check the names of varieties and hybrids and specify in the report.
- Check the units and totals of each data table.
- Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data should be avoided.
- Success stories/case studies should be supported with data tables and graphs. Without photos success stories will not be considered for inclusion in Annual Report of ATARI.

PART I – GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR-KRISHI VIGYAN				
KENDRA,	0816-		kvk.tumakuru2@icar.gov.in	https://kvktumakuru2.icar.gov.in
HIREHALLI, NH-4,	2243175/77	-	iihrkvk@gmail.com	
TUMAKURU-572 168				

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH Hesaraghatta Lake Post, Bengaluru-560 089	080- 23086100	080- 28466291	director.iihr@icar.gov.in, iihrdirector@gmail.com	www.iihr.res.in

1.3. Name of the Programme Coordinator with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. N.Loganandhan		8277252099	n.loganandhan@icar.gov.in

1.4. Year of sanction: 24th March 2009

1.5. Staff position as on 31 December 2021

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M /F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Head/Senior Scientist	Dr. N.Loganand han	Pr. Scientist & Head	М	Agril.Extn	Ph.D. Agriculture	Level 14	1,62,3 00	02.08.20 13	Permanent	OBC
2	Scientist/SMS	Shri K.N. Jagadish	SMS Agril.Extn.	М	Agril.Extn.	M.Sc. Agriculture	Level 11	80,900	17.11.20 09	Permanent	OBC
3	Scientist/SMS	Shri P.R.Ramesh	SMS Soil Science	М	Soil Science	M.Sc. Agriculture	Level 11	80,900	17.11.20 09	Permanent	OBC
4	Scientist/SMS	Shri Prashanth J.M	SMS Horticulture	М	Horticulture	M.Sc. Agri Horticulture	Level 11	80,900	24.11.20 09	Permanent	Others
5	Scientist/SMS	Dr. B. Hanumanthe Gowda	SMS Plant Protection	М	Plant Protection	M.Sc. Agriculture	Level 11	80,900	02.12.20 09	Permanent	Others
6	Scientist/SMS	Smt. RadhaR.Ban akar	SMS Home Science	F	Home Science	M.Sc. Home Science	Level 11	80,900	05.12.20 09	Permanent	Others
7	Scientist/SMS	Dr. Somashekar	SMS Plant Breeding	М	Plant Breeding	M.Sc. Agriculture	Level 11	80,900	07.12.20 09	Permanent	Others
8	Programme Assistant (Computer)	Shri.N.Jayas ankar	Assistant Chief Technical Officer (Comp. –Lab.)	М	Computer Application	MCA	Level 11	76,200	15.06.20 17	Permanent	OBC
9	Programme Assistant (Lab Tech.)	Shri Shashidhara K N	Senior Technical Assistant (Lab.)	М	Crop Physiology	M.Sc. Agriculture	Level 6	44,900	17.10.20 12	Permanent	SC
10	Programme Assistant/ Farm Manager	Shri. Sanna Manjunath	Farm Manager	М	Agronomy	M.Sc. Agriculture	Level 7	52,000	29.06.20 20	Permanent	OBC
11	Assistant	Shri. G.S. Ramakrishna	LDC	М	-	Diploma in Horticulture	Level 3	27,900	01.06.20 18	Permanent	OBC
12	Jr. Stenographer	Smt.VedaKu rnalli	Jr.Stenographer	F	Stenographer	DCP	Level 4	35,400	17.02.20 10	Permanent	Others
13	Driver - 1	Sri M.H.Ningap pa	Driver	М	Driver	S.S.L.C.	Level 3	32,300	30.12.20 09	Permanent	ST
14	Driver - 2	Vacant	-	-	-	-	-	-	-	-	-
15	SS-1	Vacant	-	-	-	-	-	-	-	-	-
16	55-2	vacant	-	-	-	-	-	-	-	-	-

1.6. Total land with KVK (in ha):....ha

S. No.	Item	Area (ha)
1	Under Buildings	1.7
2.	Under Demonstration Units	2.95
3.	Under Crops	2.3
4.	Orchard/Agro-forestry	9.85
5.	Others	0

1.7. Infrastructural Development:

A) Buildings

		Source	Stage					
S		of		Complete Incor			Incompl	ete
S. No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	20.09.2012	283	5199683			
2.	Farmers Hostel	ICAR	20.09.2012	305	6000000			
3.	Staff Quarters							
	1							
	2							
4.	Demonstration Units							
	1 Animal Shed	RFS- KVK	04.01.2018	300	99,800			
	2 Shade net	RFS- KVK	26.12.2017	196	40,000			
	3 AMC Liquid Unit	RFS- KVK	08.10.2017	-	95,000			
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							
9	Solar lights	IIHR	03.03.2018	-	6,46,713			
10	Toilet at farm	IIHR	01.01.2018	-	3,96,000			
1.	Administrative Building							
2.	Farmers Hostel							
3.	Staff Quarters							
	1							
	2							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero Diesel Jeep	2009	5,96,783	335888	Good
Motor Cycle	2010	52,658	63883	Good
Honda – Aviator	2010	46,025	42980	Good
Power Tiller	2010	1,42,400	76 Hours	Good
Tractor – MF Furgison	2011	5,60,000	528 Hours	Good
Tractor – Swaraj	2019	6,53,000	400 Hours	Good
Tractor – Mini Sonalika	2019	3,63,000	328 Hours	Good

C) Lab equipment & AV aids

Name of the equipment	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Xerox Machine	2010	01	67,262	Good Condition
White Board with Stand	2010	01	1,500	Good Condition
LCD Projector with Accessories	2010	01	1,00,000	Good Condition

LCD Projector with Accessories	2018	01	45,000	Good Condition
LED TV	2017	01	64,000	Good Condition
Public Address System	2017	01	20,000	Good Condition
R.O.S system	2017	01	72,000	Good Condition
Solar Hot Water System	2017	01	72,000	Good Condition

D) Farm equipment and implements

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Solar Pump sets	2019	02 Sets	13,79,922	Good Condition
Dhal Mill	2019	01	2,49,750	Good Condition
Flour Mill	2019	01	1,35,000	Good Condition
Multi crop thresher	2019	01	4,93,000	Good Condition
Mini tractor	2019	01	1,85,000	Good Condition
Big tractor	2019	01	6,61,696	Good Condition
Power tree trimmer	2019	01	74,000	Good Condition
Shrub master	2019	01	70,000	Good Condition
Cultivator	2019	01	48,000	Good Condition
Bund former	2019	01	49,000	Good Condition
Power weeder (Brush cutter)	2019	03	1,44,000	Good Condition
Rotovator	2019	02	90,000	Good Condition

1.8. Details of SAC meeting organized

Date	Number of	Salient Recommendations	Action taken	Remarks, if
	Participants			any
10.03.2021	50	 Dr.M.R.Dinesh, Ex-Director, ICAR-IIHR, Bengaluru 1. 'Arka Bhagavani app' need to be popularized among farmers to get awareness on POP of horticulture crops 2.Farmers and traders can get benefitted by registering 'Arka Vyapar App' for marketing their products 3. ICAR-IIHR Seed portal can be utilized by the farmers for procurement of seeds directly to their doorsteps 	Information on the mentioned Apps and Seed portal were shared among the participants in the trainings (26 in no.), Field days (6 in no.), and lectures (19 in no) and other capacity development programmes organized during this year. A poster on IIHR Seed portal has been displayed at the main Notice Board for the farmers and other customers to get benefitted	
		4.KVK has to conduct Field Days, covering the improved technologies of ICAR-IIHR.	Six field days were organized covering the improved technologies of ICAR- IIHR	
		5. Rural Youth (Especially form SC/ST community) can get support in entrepreneurial activities by taking technological backstopping from ICAR-IIHR (Eg. Chocolates from Jackfruit seed powder etc.,)	Information has been shared during the capacity development programmes as mentioned above.	License and machinery cost being high, it was requested to bear the cost under any specified projects
		Dr. M. Byre Gowda, Ex-Director (Extension), UAS Bengaluru 6.Advisory services, Diagnostic field visit and Marketing support may be made available in digital mode to the farmers	About 2,400 persons (farmers, farm women and extension agents) were given advisory services over phone, 20 diagnostic field visits were made, in some of which the initial advices were made on video-call mode	

7.New varieties tested under OFT, need to be ensured to add in seed chain, if found suitable by the farmers for the region	DGRMB-24 and DGRMB-32 are two drought tolerant groundnut varieties released from DoGR, Junagarh. These are highly promising as per farm trails conducted and results will presented during forth coming ZREAC and ZREFC meeting	
8.Apps of GKVK on various crop management and toll free advisory numbers may be utilized by the farmers	App like Bheej Aadhar and Toll free No & WhatsApp No. 1800 4250 571 & 9482477812 are being shared among farmers and displayed in the Notice Board	
9.Popularization of Pusa Mustard varieties shall be executed as intercrop among Finger millet	DDA (Tumakuru Division) has been linked to concerned Scientists for Mustard bio-fortified varieties Pusa 28, 29 and 30. As the seeds are in much demand, initial seed production activities were suggested during Rabi season, in collaboration with KoF and later to be intercropped along with Finger Millet during Kharif	
Dr. Niranjan Murthy, ADR, UAS Bengaluru 10.Amaranthus shall be taken under Nutri-garden project	Ten families were provided with minimum quantity of seeds under Nutri-garden project in previous years (2019-2020)	Preference for leaves was more than that of grains
11. KVK can make a booklet on schemes of State and Central Government	A booklet was released in the year 2019. Revised edition, including PM Kisan Samman Nidhi scheme is ready for publication.	
Dr.Rajendra Hegde, Head, NBSS & LUP, Bengaluru 12.Capacity Development Programmes need to be organised on soil and water conservation by explaining various soil maps	Five trainings were conducted for farmers and DAESI Students at Chikkadodavadi, Halagondanahalli, D.Nagenahalli covering 225 farmers	
13. Awareness to increase organic carbon content in soil need to be provided to the farmers	Six trainings were conducted for farmers and students covering 336 farmers at Bommanahalli, Chikkadodavadi, Bevinapalya, Thovinakere. Telecast of programme on importance of green manuring crops in dry land horticulture crops in DD Chandana, in which 107 farmers were covered.	
Other general suggestions		
Dr. Mallikarjuna Hanji, Nodal		
1.KVK is meant for front line demonstration only and staff from Agriculture and Horticulture departments shall involve in first line demonstration	About 14 FLDs are being carried out in the year 2021-22. Appropriate ones shall be implemented by state department as first line demonstration	
1.KVK is meant for front line demonstration only and staff from Agriculture and Horticulture departments shall involve in first line demonstration Sri. Raghu, ORDER NGO, Tumakuru: 2. For NGOs/FPOs, about 15-20% discount from the rate may be given to IIHR products. Sri Pavish Organia former :	About 14 FLDs are being carried out in the year 2021-22. Appropriate ones shall be implemented by state department as first line demonstration About 10% discount is given for FPOs and any farmer, for the products purchased above Rs.10,000	

Sri. Anand, Avishakar NGO: 4.Standardized POP for Organic farming technologies need to be	From ICAR side, standard POP for Natural Farming is getting ready. Organic practices documented from	
made available for the farmers	concerned farmers	
Dr. Balakrishna, DD (Sericulture): 5.Sericulture based IFS model can be much remunerative to the farmers. KVK shall develop a demo unit on tree mulberry model at KVK farm.	Farmers are given appropriate knowledge on tree mulberry model in the adopted villages (Eg.D.Nagenahalli). However, at KVK farm, this model is yet to be initiated	Once unit on silkworm rearing is established, this model will be implemented

PART II - DETAILS OF DISTRICT

2.1 N	.1 Major farming systems/enterprises (based on the analysis made by the KVK)			
S. No		Farming system/enterprise		
1		Dry Land Agriculture		
2		Dry Land Horticulture		
3		Dairy		

2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and tonography)

S. No	Agro-climatic Zone	Characteristics
1.	Central Dry Zone (Zone IV) Taluks: Koratgere, Madhugiri, Sira, Pavagada	 This zone covers an area of 4.74 Lakhs hectare The Annual rainfall ranges from 454 and 718 mm, of which more than 55% received in Kharif season. The elevation ranges from 639 and 1197m Soils are red sandy loams in major areas, shallow to deep black in remaining areas. The major crops grown are Ragi, Paddy, Redgram, Groundnut, Sunflower, Coconut, Arecanut, Mango, Banana, Tomato, Brinjal, Beans, Peas, Aster, Dairy
2.	Eastern Dry Zone (Zone V) Taluk: Tumakuru	 This zone covers an area of 1.04 Lakh hectares. The Annual rainfall ranges from 679 and 889 mm, of which more than 50% received in Kharif season. The elevation is 818 m from sea level. Soils are red loamy in major areas, shallow to deep black in remaining areas. The major crops grown are Groundnut, Maize, Paddy, (a)Ragi, Redgram, Tomato, Brinjal, Mango, Sapota, Arecanut, Coconut, Aster, Dairy etc.,

S. No	Agro ecological situation	Characteristics
1	Agro eco sub region-1	Hot moist, semi-arid ESR with LGP 150-
		180 days (LGP-length of growing period)

2.3	Soil type/s
-----	-------------

S. No	Soil type	Characteristics	Area in ha
1.	Red Sandy Loam	Colour given by hematite's or Yellow limonite's	6,15,230
		• Poor in soil fertility	
		 Low base exchange capacity 	
		 Deficient in organic matter 	
		 Low water holding capacity 	
		• The pH ranges from 5.56.5	
		Low cohesion, plasticity & swelling	
2.	Red Loam	 Colour given by oxides of iron 	2,04,093
		• Poor in soil fertility	
		 Low- medium Base Exchange capacity 	
		 Deficient in organic matter 	
		 Low water holding capacity 	
		• The pH ranges from slightly acidic or neutral	
		(a) Low cohesion, plasticity & swelling	
3.	Shallow Black Soil	• Colour varying from dark brown to dark yellowish	2,45,432
		brown	

• Soil with more than 35 per cent clay and crack	
when it is dry	
• High soil fertility	
• High base exchange capacity	
• High organic matter content	
• High water holding capacity	
• The pH ranges from 7.5 -8.5	
(b) High cohesion, plasticity & swelling	

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Metric	Productivity (kg /ha)
			tons)	
1	Paddy	4,858	37,064	2,993
2	Maize	20,122	56,200	2,323
3	Ragi	1,44,547	2,19,246	1,496
4	Minor Millets	2,929	3,14,003	1,698
5	Rad gram	10,963	3,740	359
6	Horse gram	16,254	8,266	481
7	Field bean (Avare)	6,251	3,456	599
8	Ground nut	55299	31,016	454
9	Coconut	1,45,660	12,53,548 (1000 nuts)	9,000 Nos
10	Areca nut Processed	32,341	2,81,840	9,705

* Source: Tumakuru District at a Glance 2017-18

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	
January 2021	19	35.5	-	January 2021
February 2021	23	39.6	10.3	February 2021
March 2021	0	42.0	11.3	March 2021
April 2021	65	46.6	16.6	April 2021
May 2021	88	42.3	-	May 2021
June 2021	92.9	46.2	4.6	June 2021
July 2021	110.9	36.4	13.1	July 2021
August 2021	113	35.3	4.2	August 2021
September 2021	44	36.3	-	September 2021
October 2021	296	40.0	17.0	October 2021
November 2021	229	34.9	11.4	November 2021
December 2021	28	34.9	10.0	December 2021

* Source: KSNDMC, Bengaluru

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle		·	
141190	141190	141190	141190
446636	446636	446636	446636
241607	241607	241607	241607
Sheep		·	
6565	6565	6565	6565
1061132	1061132	1061132	1061132
517763	517763	517763	517763
144	144	144	144
7631	7631	7631	7631
121	121	121	121
Poultry		·	

711273	711273	711273	711273

Category	Area	Production	Productivity
Fish	-		
Marine	-		
Inland	-	9251.59 metric ton	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

* Please provide latest data from authorized sources. Please quote the source

2.7 District profile maintained in the KVK has been Updated for 2021: Yes

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Koratagere Tumakuru Pavagada	Kolala Pavagada	Vaddarahalli Pallavalli Veerammanahalli	2 2 2	Tomato	Leaf curl, Late blight, wilting Low yield and Low storability	ICM
2	Madhugiri Sira	Doddere Bukkapattana	K P Halli Hosahalli	2 2	Onion	Non availability of Rabi varieties, Poor storability	New varieties
3	Sira, Koratagere Madhugiri	Bukkapattana Kolala Doddere	Karemadanahalli Tanaganahalli Rangapura	2 3 3	Foxtail millet	Use of Local varieties, Lack of Knowledge on High yielding varieties and lack of knowledge on processing and value addition	New varieties, Value addition
4	Pavagada	Doddenahalli	Doddenahalli Bydanuru	2	Tuberose	Small size flowers, less shelf life & low yield	New Variety
5	Koratagere Madhugiri Sira	Kolala Doddere Bukkapattana	Chikkadoddawadi Rangapura Karemadanahalli	2 3 2	French bean	Mosiac disease, Rust, local varieties low yield	ICM
6	Sira Madhugiri Koratagere	Bukkapattana Doddere Kolala	Karemadanahalli Rangapura Chikkadoddawadi	2 3 2	Nutrition garden	Lack of knowledge on nutrition garden and nutrition insecurity	Food and Nutrition Security
7	Sira Koratagere Madhugiri,	Bukkapattana Kolala Doddere	Karemadanahalli Chikkadoddawadi Rangapura	2 2 3	Ragi	Low yield, Less acceptability of value added products from existing varieties due to	ICM & Value addition
	1 1	l				brown colour	
8	Sira Madhugiri Pavagada	Bukkapattana Doddere Veeramanahalli	Karemadanahalli Rangapura Veeramanahalli	2 3 2	Chilli	brown colour Low yield, Local varieties Imbalanced nutrition, Disease incidence – Mosaic virus susceptible	ICM
8	Sira Madhugiri Pavagada Pavagada	Bukkapattana Doddere Veeramanahalli Venkatapura	Karemadanahalli Rangapura Veeramanahalli venkatapura	2 3 2 3	Chilli Pomegranate	brown colour Low yield, Local varieties Imbalanced nutrition, Disease incidence – Mosaic virus susceptible Bacterial blight, leaf spot disease, sucking pest problem	ICM
8 9 10	Sira Madhugiri Pavagada Pavagada Sira Madhugiri Koratagere	Bukkapattana Doddere Veeramanahalli Venkatapura Bukkapattana Doddere Kolala	Karemadanahalli Rangapura Veeramanahalli venkatapura Karemadanahalli Rangapura Chikkadoddawadi	2 3 2 3 2 2 2 2	Chilli Pomegranate Paddy	brown colour Low yield, Local varieties Imbalanced nutrition, Disease incidence – Mosaic virus susceptible Bacterial blight, leaf spot disease, sucking pest problem Water stress, Neck blast, nutrient deficiency, weeds, Non awareness about aerobic paddy, Rat menace	ICM ICM ICM
8 9 10 11	Sira Madhugiri Pavagada Pavagada Sira Madhugiri Koratagere Sira Madhugiri Koratagere	Bukkapattana Doddere Veeramanahalli Venkatapura Bukkapattana Doddere Kolala Bukkapattana Doddere Kolala	Karemadanahalli Rangapura Veeramanahalli venkatapura Karemadanahalli Rangapura Chikkadoddawadi Karemadanahalli Rangapura Chikkadoddawadi	2 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Chilli Pomegranate Paddy Fodder	brown colour Low yield, Local varieties Imbalanced nutrition, Disease incidence – Mosaic virus susceptible Bacterial blight, leaf spot disease, sucking pest problem Water stress, Neck blast, nutrient deficiency, weeds, Non awareness about aerobic paddy, Rat menace Non availability of suitable fodder crop for higher yield	ICM ICM ICM New Varieties
8 9 10 11 12	Sira Madhugiri Pavagada Pavagada Sira Madhugiri Koratagere Sira Madhugiri Koratagere Madhugiri	Bukkapattana Doddere Veeramanahalli Venkatapura Bukkapattana Doddere Kolala Bukkapattana Doddere Kolala Doddere	Karemadanahalli Rangapura Veeramanahalli venkatapura Karemadanahalli Rangapura Chikkadoddawadi Karemadanahalli Rangapura Chikkadoddawadi Rangapura	2 3 2 3 2 2 2 2 2 2 2 2 3 2 3 2 3	Chilli Pomegranate Paddy Fodder Tamarind	brown colour Low yield, Local varieties Imbalanced nutrition, Disease incidence – Mosaic virus susceptible Bacterial blight, leaf spot disease, sucking pest problem Water stress, Neck blast, nutrient deficiency, weeds, Non awareness about aerobic paddy, Rat menace Non availability of suitable fodder crop for higher yield Lack of knowledge on processing and value addition, low income	ICM ICM ICM New Varieties PHT

2.9 Priority thrust areas

S. No	Thrust area
1.	High Yielding varieties / Hybrids
2.	Seed treatment with Bio fertilizers and fungicides

3.	Soil test based fertilizer application
4.	Integrated Cropping 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
13.	Child and Women Care and balanced nutrition

PART III - TECHNICAL ACHIEVEMENTS

3.A. Target and Achievements of mandatory activities

	0	FT		FLD				
]	1		2				
OFTs (No.) Farmers (No.)			mers (No.)	FLDs (No.) Farmers (No.)				
Target	Achievement	Target Achievement		Target	Achievement	Target	Achievement	
04	04	12	12	14	14	125	125	

	Training (Farme	ers/farm wor	nen)	Training (Rural youth)				
		3		4				
Cou	ırses (No.)	Partic	cipants (No.)	Progra	ammes (No.)	Participants (No.)		
Target	Achievement	Target Achievement		Target	Achievement	Target	Achievement	
37	22	1095	750	11	5	520	123	

	Training (Exter	ision person	nel)	Training (sponsored)				
	1	5			(5		
Courses (No.)		Participants (No.)		Progra	ammes (No.)	Participants (No.)		
Target	Achievement	Target	Target Achievement		Achievement	Target	Achievement	
7	1	160	22	2	1	40	33	

	Training (Vocational)		Extension Programmes				
		7		8				
Cou	ırses (No.)	Partic	cipants (No.)	Progra	ammes (No.)	Participants (No.)		
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	
1	0	20	0	267	298	109800	23723	

Seed Produc	ction (Q)	Planting material (Nos.)				
9		10				
Target	Achievement	Target	Achievement			
36	37.70	82000	82059			
Mushroom Spawn - 10	13					

Lives	tock, poult	ry strai	ns and finge	rlings (No.)	Bio-products (Kg)					
		1	1			1	2			
	Target		Act	nievement		Target	Achieveme	ent		
	Sheeps			21	Neem Soap	-2500 Kgs	3	393 Kgs		
	Cows			6	Pongamia s	oap-1000 Kgs	1	440 Kgs		
	Others				Arka Borer Kgs	Controller-600	ç	958 Kgs		
Amla Can	dy - 100	Kg.		43 Kg.	Banana spe	cial 2000kg		7,526		
Amla Squa	sh - 500	Ltrs.	2	220 Ltrs.	Mango spec	cial 2000kg	2,259			
Ragi Malt	- 100	Kg.		95 Kg.	Vegetable s	pecial 1500kg	8,398			
					Citrus spec	ial 1500kg	3,713			
					AMC Powe	ler 2000kg	2,256			
					AMC Liqui	d 2000litre		3,238 lit		
					Fruit fly tra	p 3000nos		18,601		
5	Soil, water, (inc	plant a luding :	nd manure a mobile kits)	nalysis	Mobile agro advisories provided					
		1	3			1	4			
San	nples (No.)		Far	mers (No.)	Messages vo	s including text, ice (No.)	Far	mers (No.)		
Target	Achieven	nent	Target	Achievement	Target	Achievement	Target	Achievement		
750		1,211	500	999	96	19	1945	1945		
Target 750	Achieven	1,211	Target 500	Achievement 999	Target 96	Achievement	Target 1945	Achievement		

3.B1. Abstract of interventions undertaken

								Interver	ntions					
S. N o	Thrust area	Crop/ Enterpri se	Identifie d Problem	Title of OFT if any	Title of FLD if any	Numbe r of Trainin g (farmer s)	Numbe r of Traini ng (Youth s)	Number of Trainin g (extensi on personn el)	Extensi on activitie s (No.)	Suppl y of seeds (Qtl.)	Supply of plantin g materi als (No.)	Supply of livesto ck (No.)	Suj of pro	oply bio duct s
													No	Kg
01	Variety Evaluati on	Chilli	Private hybrids are susceptibl e to Leaf curl (40%), Wilt & Powdery Mildew diseases (20%), low quality and low yield Lack of awareness on High yielding and disease resistant hybrids in chilli.	Assessme nt of Chilli hybrids for disease resistant and Higher productiv ity	-	0	0	0	06	0.018	0	0	0	0
02	ICM	Chilli	Low yield, Local varieties, Imbalance d nutrition, Disease incidence – Mosaic virus susceptibl e	-	ICM in Chilli	1	0	0	09	0.0015	0	0	0	5 litrs 10 kg
03	ICM	French Bean	Low yield, Use of local varieties, Non use of disease resistance varieties, Improper Nutrient Managem ent	-	ICM in French Bean	1	1	0	07	0.40	0	0	0	30 kg 10 kg
04	HYV	Tuberose	Small size flowers, Less shelf life (days) Low yield	-	Demonstrati on of Tube rose variety Arka Prajwal	0	0	0	06	3.60	0	0	1	10 kg

05	ICM	Chilli	Low yield, Local varieties , Imbalanced nutrition, Disease incidence – Mosaic virus susceptible	-	ICM in Chilli	1	0	0	09	0.0015	0	0	0	5 litrs 10 kg
06	ICM	French Bean	Low yield, Use of local varieties, Non use of disease resistance varieties, Improper Nutrient Management	-	ICM in French Bean	1	1	0	06	0.40	0	0	0	30 kg 10 kg
07	ICM	Groundnut	Lack of drought tolerant HY varieties	Assessment of Drought tolerant and High yielding varieties in Groundnut	-	1	1	0	08	40 kgs	0	0	0	300 kgs
08	ICM	Tomato	Tomato Leaf Curl Disease, Bacterial wilt, Early blight Late blight and low yield	-	Integrated Crop Management in Tomato	1	1	0	06	0.0040	0	0	10 No.s	6 Kg 5 Kg
09	Value addition	Foxtail	Reduction in area under minor millets due to lack of knowledge on nutritional value and non availability of processing units	-	Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition Seeds 10kg/ha. FYM 6.25 t/ha. RDF 40:40:0 NPK kg/ha.	0	0	0	05	0.005	0	0	0	0
10	Value addition	Brown top millet	Reduction in area under minor millets due to lack of knowledge on nutritional value and non availability of processing units	-	Demonstration of brown top millet for Value Addition Seeds 10kg/ha. FYM 6.25 t/ha. RDF 40:40:0 NPK kg/ha.	0	0	0	05	0.005	0	0	0	0
11	organic farming	Pomegranate	Severe incidence of blight and wilt. High cost, Lower yield and poor quality	Assessment of bio formulations for productivity, quality and management of diseases in Pomegranate	-	1			1	0	0	0	0	ACT- 25KG AMC- 22litre IFFCO- 15 litre
12	ICM	Ragi	Lack of high yielding varieties. Finger millet blast and low yield	-	Enhancement of Productivity of Finger millet by short duration var. KMR-630	2	0	0	0	60kg	0	0	0	25kg
13	ICM	Aerobic paddy	Water scarcity Low income High cost of cultivation Low nutritional variety	-	Demonstration of water saving Aerobic Paddy Paustic-9	2	0	0	0	100kg	0	0	0	25kg

Sida, Detans of teenhology used during reporting period	3.B2.	Details	of technol	logy used	during	reporting	period
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C M.	Title of Technology	Samaa af ta ahaa la aa	Constant		No.o	f programmes o	conducted
5.NO	The of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
01	Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition	UAS Dharwad	DHFT-109 -3 Foxtail millet	-	10	0	0
02	Demonstration of Brown Top Millet for Value Addition	ITK	Brown top millet	-	10	0	0
03	Assessment of bio formulations for improving productivity, quality and management of diseases in Pomegranate	IIHR Bengaluru	Pomegranate	1	0	1	0
04	Enhancement of Productivity of Finger millet by short duration var. KMR-630	UAS, Bengaluru	Ragi	-	6	2	0
05	Demonstration of water saving Aerobic Paddy Paustic-9	UAS, Bengaluru	Aerobic paddy	-	6	2	0
06	Assessment of Chilli hybrids for disease resistant and Higher productivity	IIHR Bengaluru	Chilli	1	0	0	0
07	Demonstration of Tuberose variety Arka Prajwal	IIHR, Bengaluru	Tuberose	-	1	0	0
08	Demonstration of Chilli Variety Arka Harita	IIHR Bengaluru	Chilli	-	05	01	0
09	Demonstration of in French Bean variety Arka Arjun	IIHR Bengaluru	French bean	-	05	01	0

3.B2 contd..

	No. of farmers covered														
	OFT FLD								Trai	ining			Others (Specify)	
General SC/ST		General	l	SC/ST		General	l	SC/ST		General		SC/ST			
Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-	-	-	-	3	1	4	2	0	0	0	0	0	0	0	0
-	-	-	-	2	2	4	2	0	0	0	0	0	0	0	0
03	0	0	0	0	0	0	0	23	5	0	0	0	0	0	0
0	0	0	0	09	01	0	0	46	11	0	0	0	0	0	0
0	0	0	0	08	02	0	0	37	08	0	0	0	0	0	0
02	0	01	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	04	0	0	01	0	0	0	0	0	0	0	0
0	0	0	0	04	0	01	0	15	05	02	0	0	0	0	0
0	0	0	0	03	0	02	0	12	0	04	0	0	0	0	0

<u> PART IV - On Farm Trial</u>

4.A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient										
Management										
Varietal Evaluation		01								01
Integrated Pest										
Management										
Integrated Crop								01		01
Management										
Integrated Disease										
Management										
Small Scale Income										
Generation										
Enterprises										
Weed Management										
Resource										
Conservation										
Technology										
Farm Machineries										
Integrated Farming										
System										
Seed / Plant										
production										
Value addition										
Drudgery Reduction										
Storage Technique										
Cropping Systems										
Farm										
Mechanization										
Mushroom										
cultivation										
others										
Total		01						01		02

4.A2. Abstract on the number of technologies refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient										
Management										
Varietal Evaluation										
Integrated Pest										
Management										
Integrated Crop										
Management										
Integrated Disease										
Management										
Small Scale Income										
Generation										
Enterprises										
Weed Management										
Resource										
Conservation										
Technology										
Farm Machineries										
Integrated Farming										
System										
Seed / Plant										
production										
Value addition										
Drudgery Reduction										
Storage Technique										
Cropping Systems										

Farm					
Mechanization					
Mushroom					
cultivation					
Others					
Total					

4.A3. Abstract on the number of technologies assessed in respect of livestock

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating						
enterprises						
Dairy						
Others (Pl. specify)						
TOTAL						

4.A4. Abstract on the number of technologies refined in respect of livestock

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating						
enterprises						
Dairy						
Others (Pl. specify)						
TOTAL						

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Сгор	Name of the technologies	No. of trials	Num ber of farme rs / locati ons	Area in ha (Per trial covering all Technolo gical Options in a farm)
Integrated Nutrient					
Management					
Varietal Evaluation	Groundn ut	Drought tolerant and High yielding varieties in Groundnut	3	3	1.2
	Chilli	Assessment of Chilli hybrids for disease resistant and Higher productivity	3	3	0.6
Integrated Pest Management					
Integrated Crop Management					

Integrated Disease	Pomegra	Assessment of bio formulations for improving productivity, quality and	3	3	1
Management	nate	management of diseases in Pomegranate			
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
value addition			-		
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total			9	9	2.8

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technologies	No. of trials	Number of farmers/locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Internet of Francisco Contant					
integrated Farming System					
Seed / Plant production					

Post Harvest Technology/Value addition			
Drudgery Reduction			
Storage Technique			
Mushroom cultivation			
Cropping Systems			
Farm Mechanization			
Others, Pl specify			
Total			

4.B.3. Technologies assessed under Livestock

Thematic areas	Name of the livestock	Name of the technologies	No. of trials	No. of farmers/locations
Evaluation of breeds				
Nutrition management				
Disease management				
Processing and Value addition				
Production and management				
Feed and fodder management				
Small scale income generating enterprises				
Others, pl. specify				
Total				

4.B.4. Technologies Refined under Livestock and other enterprises

Thematic areas	Name of the livestock	Name of the technologies	No. of trials	No. of farmers/locations
Evaluation of breeds				
Nutrition management				
Disease management				
Processing and Value addition				
Production and management				
Feed and fodder management				
Small scale income generating enterprises				
Others, pl. specify				
Total				

4.B.5. Technologies assessed under various enterprises by KVKs

Sl.	Thematic areas	Name of the enterprise	Name of technology(s)	No. of trials	No. of locations
1	Drudgery reduction				
2	Entrepreneurship Development				
3	Health and nutrition				
4	Processing and value addition				
5	Energy conservation				
6	Small-scale income generation				
7	Storage techniques				

8	Household food security
9	Organic farming
10	Agroforestry management
11	Mechanization
12	Resource conservation technology
13	Value Addition
14	Others, pl. specify

4.B.6.Technologies assessed under various enterprises for women empowerment

	Thematic areas	Name of enterprise	Name of technology(s)	No. of trials	No. of locations
1	Drudgery Reduction				
2	Entrepreneurship Development				
3	Health and Nutrition				
4	Value Addition				
5	Women Empowerment				
6	Others, pl. specify				

4.C1. Results of Technologies Assessed

Crop/ enterprise	Farmin g situatio n	Problem definition	Title of OFT	No. of tria ls	Technology Assessed	Source of technolog y	Yiel d	Uni t of yiel d	Observatio ns other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gros s inco me/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
Chilli	Irrigat ed	Private hybrids are suscepti ble to Leaf curl (40%), Wilt & Powder y Mildew diseases (20%), low quality and low yield Lack of awarene ss on High yielding and	Assessm ent of Chilli hybrids for disease resistant and Higher producti vity	03	T.O.1 (Farmers practice)- Demon	Pvt com.	16. 42	t/h a	Chlcv disease incidence (%) 12.85	2,46,3 00	1,34,1 40	2.20

		disease resistant hybrids in chilli										
					T.O.2- Arka Tanvi	IIHR, Bengal uru	18. 92	t/h a	Chlcv disease incidence (%) 8.10	2,83,8 00	1,76,6 50	2.65
					T.O.3- Arka Gagan	IIHR, Bengal uru	19. 32	t/h a	Chlcv disease incidence (%) 6.12	2,89,8 00	1,84,1 50	2.74
Groundnut	Rainfed	Lack of drought tolerant HY varieties	Assessmen t of Drought tolerant and High yielding varieties in Groundnu t	03	T.O.1 (Farmers practice) :K-6	ZARS, Kadri	7.9	Qtl s	Germinat ion (%), Days to Flowerin g, Number of Pegs/plan t, No. of Days taken for harvestin g	40211	15290	1.62
					T.O.2:DG MRB-24	DOGR, Junagarh	10. 33	Qtl		52563	27688	2.12
					T.O.3:DG MRB-32	DOGR, Junagarh	9.8 5	Qtl		50153	24062	1.92
					T.O.2:Kadri Lepakshi	ZARS, Kadri	11. 79	Qtl s		60028	32843	2.21
Pomegra nate	Irrigat ed	Severe incidence of blight and wilt. High cost, Lower yield and poor quality	Assessmen t of bio formulatio ns for improving productivi ty, quality and manageme nt of diseases in Pomegran ate	03	TO1 (FP)	Pvt bioefrtilize r	7.4	t/h a	Incidence of blight and wilt (%)			
					TO2 RP Aspergillus niger+ pseudomonas + VAM	NRCP, Solapur	8.7	t/h a	Incidence of blight and wilt (%)	5,14,30 0	3,81,85 0	3.88
					TO3 AP Actino plus +AMC	IIHR, Bengal uru	8.9	t/h a	Incidence of blight and wilt (%)	6,04,65 0	4,98,97 0	5.72
					TO 4 AP IFFCO Biofertilizer	IFFCO	7.8	t/h a	Incidence of blight and wilt (%)	6,18,55 0	5,18,30 0	6.17

4. C2. Feedback on technologies assessed

Name of	Useful characters as well as constraints of technology	Socio-economic as well as administrative
technology		constraints for its adoption
assessed		
Demon, Arka	Arka Gagan and Arka Tanvi chilli hybrids recorded less percent of	Nil
Tanvi and Arka	Chlcv disease incidence. Arka Gagan (H 30) was recorded highest yield	
Gagan	and pungency is very High	
Assessment of	Highly suitable for erratic rainfall. Medium duration and bold	-
Drought tolerant	seeded and potentially high yielding varities	
and High		
yielding varieties		
in Groundnut		
Aspergillus	Farmers' feedback was that the application of AMC + ACT and	Nil
niger+	drenching with Aspiriligus niger + Pseudomonas + VAM were reduced	
pseudomonas +	the disease incidence and improved the fruit quality compare to that of	
VAM	farmer practice and IFFCO biofertilizer treatment.	
Actino plus		
+AMC		



4.C3. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

1. Title of Technology Assessed: Assessment of Chilli hybrids for disease resistant and higher productivity

2. Performance of the Technology on specific indicators: Arka Gagan (H 30) chilli hybrid recorded less percent of Chlcv disease incidence and recorded highest yield and pungency.

3. Specific Feedback from farmers: Arka Gagan hybrid yielded more, pungency is high as compared to Demon and Arka Tanvi

4. Specific Feedback from Extension personnel and other stakeholders: Chilli hybrid recorded less percent of Chlcv

disease incidence compared to Demon even there is a damage caused by heavy rainfall.

5. Feedback to Research System based on results and feedback received: Arka Gagan and Arka Tanvi chilli hybrids

recorded less percent of Chlcv disease incidence. High pungency with medium to upright segment

6. Feedback on usefulness and constraints of technology: Nil



OFT - Assessment of Chilli hybrids for disease resistant and higher productivity

- 1. Title of Technology Assessed
- 2. Performance of the Technology on specific indicators
- 3.Specific Feedback from farmers
- 4.Specific Feedback from Extension personnel and other stakeholders
- 5. Feedback to Research System based on results and feedback received
- 6. Feedback on usefulness and constraints of technology

1. Title of Technology Assessed: Assessment of bio formulations for improving productivity, quality and management of diseases in Pomegranate

Performance of the Technology on specific indicators: Application of Arka action plus and AMC has been recorded blight incidence by 14.2% and wilt incidence by 1.3% and average weight of fruit is 384gm
 Specific Feedback from farmers: Farmers' feedback was that the application of AMC + ACT and drenching with Aspiriligus niger + Pseudomonas + VAM were reduced the disease incidence and improved the fruit quality
 Specific Feedback from Extension personnel and other stakeholders: Application of liquid AMC + ACT increased the fruit yield, reduced the disease incidence and improved the fruit quality

5. Feedback to Research System based on results and feedback received: Reduced the cost of cultivation by Rs.32, 200/per ha by application of AMC and ACT.

6. Feedback on usefulness and constraints of technology: Nil



OFT-Assessment of bio formulations for improving productivity, quality and management of diseases in Pomegranate

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Refined	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
					T.O.1 (Farmers practice)							
					T.O.2							
					T.O.3							

4.D1. Results of Technologies Refined

4. D2. Feedback on technologies refined

Name of	Useful characters as well as constraints of technology	Socio-economic as well as
technology		administrative constraints for its
refined		adoption

4.D.2. Details of Technologies refined:

- 1. Title of Technology Refined
- 2. Performance of the Technology on specific indicators
- 3. Specific Feedback from farmers
- 4. Specific Feedback from Extension personnel and other stakeholders
- 5. Feedback to Research System based on results/feedback received
- 6. Feedback on usefulness and constraints of technology

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented

S1		Farming Season Situatio				Thematic		Area	(ha)	Fari	ners	Farmers	s (No.)	
N O.	Category	n		Crop	Variety/ breed	Hybrid	aca	Technology Demonstrate d	Propo sed	Act ual	SC/ ST	Oth ers	Small / Margi	Oth ers
	Oilsee ds													
	Pulses													
	Cereals													
1		Rain fed	Kha rif	Rag i	KMR- 630	-	ICM	KMR- 630 Seeds 12.5 kg/ha. Red gram seeds (intercro p) - 5 kg/ha Bio- fertilizer (AMC)- 1Kg FYM- 10 t/ha. RDF - 50:37:40 NPK kg/ha Zinc Sulphate 12 5 kg	04	0 4	0 1	09	08	0 2
2		Irrig ated	Kha rif	Pad dy	Aerobi c paddy- Paustic -9	-	ICM	 - 12.5 kg /ha. Borax - 10kg / ha Aerobic Paddy seeds - 15 kg/ha, FYM - 10 ton/ha, Biofertil izer - 0.5 kg/ha, RDF - 100:50:5 0 NPK kg/ha, Borax - 8 kg/ha, Zinc sulphate 20 kg/ha 	04	0 4	02	0 8	08	02
	Millets													
3	Vegetable s	Irrig ated	Sum mer	To mat o	-	Ar ka ab	Enhanc ement of	Demonst ration of Arka Abedh :	2	2	0	0	5	0

						ed h	product ivity	F1 Hybrid resistant to Tomato Leaf Curl, Bacterial wilt, Early blight and Late blight						
4		Irrig ated	Rabi	Fren ch Bea n	Arka Arjun	-	ІСМ	Arka Arjun AMC: 20g /lit Vegetable Special- 2gm /lit & Neem soap : @ 7 g/lit	1	1	2	3	5	0
5		Irrig ated	Rabi	Chill i		Ark a Har ita	ICM	Arka Harita -F1 hybrid- AMC 20g/lit Vegetable Special- 3gm /lit, Yellow sticky traps Neem Soap @7 gm /lit	1	1	1	4	5	0
6	Millets	Rain fed	Late Kha rif	Fox tail mill et	DHFt 109-3	-	Value addition	Demonst ration of Foxtail millet Variety DHFt 109-3 for Value Addition	4	4	6	4	-	-
7		Rain fed	Late Kha rif	Bro wn top mill et	Local	-	Value addition	Demonst ration of Brown Top Millet for Value Addition and Market linkage	4	4	6	4	-	-
8		Irrig ated	Kha rif	onio n	Arka bheem		ICM	New variety	4	4	2	8	8	2
		Irrig ated	Kha rif	Rid ge gou rd	Arka prasana		HYV	New variety	4	4	3	7	7	3
	Flowers													
9	. 10 wets	Irrig ated	Rabi	Tube rose		Ark a Pra jwa 1	ICM	Demonstr ation of Tuberose variety Arka Prajwal	1	1	1	4	4	1
	Ornament al													
	Fruit													
	i i uit													

	Spices												
	and												
	condimen												
	ts												
	13												
	Comment												
	Commerc												
	ıal												
10	Medicinal	Rain	Kha	Mu	Arka	ICM	Mucuna	10	1	5	1	14	6
	and	lea	nı	a	antari		as a mulch		0		5		
	aromatic						crop in						
	uiomune						Coconut						
	Foddar												
	Fouder			60		 X7 1 4 1	D (2	2	0	1	10	0
				FS		v arietal introdu	ration of	2. 5	2	0	1	10	0
		Irrig	Khar	31		ction	Fodder		5				
		ated	if				Sorghu m. CoFS						
L							31						
				Mar		Varietal	Demonst	1	1	0	5	5	0
				vel Gra		introdu ction	ration of Marvel						
				ss			Grass -						
		Irrig	Khar				Perennia						
		aicu	11				Dicanthi						
							um						
							annulatu m						
-	Plantation												
	Fibre												
	Dairy												
	ý												
	Doultry												
	Toutity												
	5.111												
	Rabbitry												
	Piggery												
	Sheep												
	and goat												
<u> </u>	Duckery												
	5												
	Common												
	carps												
	Mussels												
	Ornament												
	al fishes												

Oyster							
mushroo							
m							
 Button					 		
mushroo							
m							
Vermico							
mpost							
 Comionaltan					 		
Sericultur							
 e							
Apicultur							
 e					 		
Implemen							
ts							
Others							
(specify)							
×1 J/							

5.A. 1. Soil fertility status of FLDs plots, if analysed

S1 N	Categor	Farmin g Situatio	Season and Year	Crop	Variety/ breed	Hybri d	Thematic area	Technology Demonstrat	Season and year		Status of soi	il	Previous crop grown
о.	,	n						ed	,	Ν	Р	Κ	
	0.11												
	Oils eeds												
	D 1										-		
	Puls es												
	G 1												
	Cereals												
1		Rai ned	Khar if 2021	Ragi	KMR6 30	-	ICM	KMR- 630 Seeds 12.5 kg/ha. Red gram seeds (intercro p) - 5 kg/ha Bio- fertilizer (AMC)- 1Kg FYM- 10 t/ha. RDF - 50:37:4 0 NPK kg/ha Zinc Sulphat e - 12.5 kg/ha.	Khar if 2021	L	M	М	Grou ndnut

								Borax - 10kg /					
2		Irrig ated		Aer obic padd y	Puastic 9	-	ICM	ha Aerobic Paddy seeds - 15 kg/ha, FYM - 10 ton/ha, Biofertil izer - 0.5 kg/ha, RDF - 100:50: 50 NPK kg/ha, Borax - 8 kg/ha, Zinc sulphate - 20 kg/ha	Khar if 2021	М	L	М	Padd y
	Millota												
	winnets												
3	Vegeta bles	Irrig ated	Sum mer- 2021	Tom ato	-	Ar ka Ab ed h	Enhanc ement of product ivity	Demons tration of Arka Abedh : F1 Hybrid resistant to Tomato Leaf Curl, Bacteria 1 wilt, Early blight and Late blight	Sum mer- 2021	М	М	L	Fallo w
4		Irrig ated	Sum mer 2020	Fren ch Bean	Arka Arjun	-	ICM	Arka Arjun AMC: 20g /lit Vegetabl e Special- 2gm /lit & Neem soap : @ 7 g/lit	Sum mer 2020	М	L	М	Ragi
5		Irrig ated	Rabi 2020	Chill		Ar ka Ha rita	ІСМ	Arka Harita - F1 hybrid- AMC 20g/lit Vegetabl e Special- 3gm /lit, Yellow sticky traps Neem Soap @7 gm /lit	Rabi 2020	М	L	L	Groun dnut
	Vegeta												
	bles												
<u> </u>	Flowers												

6		Irrig ated	Rabi 2020	Tube rose	Arka Prajwal	-	ICM	Demonstr ation of tuberose variety Arka Prajwal	Khari f 2020	М	L	М	China Aster
	Orname ntal												
	Fruit												
	Spices and condim ents												
	Comme rcial												
7	Medici nal and aromati c	Rai n fed	Khar if	Muc una	Arka Dhanw antari		ICM	Mucuna as a mulch crop in Coconut	Khar if	l o w	mod erate	l o w	fallo w
	Fodder												
		Irrig ated	Khari f	Sorg hum fodd er	COFS 31	-	Varieta l introdu ction	Demons tration of Fodder Sorghu m CoFS 31	Khari f	М	L	М	Fodd er
		Irrig ated	Khari f	Mar vel Gras s	Marvel Grass	-	Varieta 1 introdu ction	Demons tration of Marvel Grass - Perenni al Fodder Dicanthi um annulatu m	Khari f	М	М	L	Fodd er
	Plantati												
	on												
	Eiba-												
	FIDTE												

5.B. Results of FLDs

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybri d	Farmi ng situati on	No. of Dem o.	Ar ea (ha)	Y	Yield (q/h	a)		% Increa se	Eco demons	onomics of stration (Rs	f s./ha)	Eco demons	onomics o tration (R	f s./ha)
							Demo			Chec k		Gross Retur n	Net Retur n	BC R	Gross Retur n	Net Retur n	BC R
							Н	H L A									
Oilseeds																	
Pulses																	

Cereals																	
Ragi	Short duration Ragi	KMR630	-	Rainf	10	4	26.	19.7	21.7	17.4	24.7	54,25	28,61	2.1	43,50	16,79	1.6
Paddy	Aerobic paddy	Puastic 9	-	Irrigat	10	4	32. 9	25.4	31.3	24.8	26.2	46,95	25,20	2.1	37,20	16,95	1.8
				cu			,					0	0	0	0	0	4
Millets																	
Millets	Demonstr ation of Foxtail millet Variety DHFt 109-3 for Value Addition	DHFt 109-3		Rainfed	10	4	15. 68	14.72	15.2 0	12.6	20.63	61,80 0	34,30 0	2.2 4	37,52 0	12,92 0	1.5 2
	Demonstratio n of Brown Top Millet for Value Addition and Market linkage	Local		Rainf ed	10	4	11. 4	9.6	10.5	-	-	11,00 0	6500	2.4 4			
Vegetabl es	Demonstratio n of Arka Abedh : F1 Hybrid resistant to Tomato Leaf Curl, Bacterial wilt, Early blight and Late blight	-	Arka abedh	Irrigat ed	05	2.0 0	63. 78	58.60	61.2 4	47.8 5	27.98	61244 0	40164 6	2.9 1	47854 0	2666 12	2.2 6
	ICM in onion	Arka		Irrigat	10	4	195	101	182	140	30.0	18200	12200	3.0	14000	6500	1.8
	Arka prasana Ridge gourd	Arka prasana		Irrigat ed	10	4	131	112	120	84	42.85	18000 0	13000 0	3.6	0 12600 0	6600 0	6 1.9
	Arka Arjun AMC: 20g /lit Vegetable Special- 2gm /lit & Neem soap : @ 7 g/lit	Arka Arjun	-	Irrigat ed	05	01	81	75	78	62.7 0	24.40	1,56,0 80	1,19,3 04	4.2 4	1,25,4 00	8751 8	3.3 1
	Arka Harita -F1 hybrid- AMC 20g/lit Vegetable Special- 3gm /lit, Yellow sticky traps Neem Soap @7 gm/lit	Arka Harita	-	Irrigat ed	05	01	240 .5	225.4 .6	238. 50	194. 20	22.81	29812 5	19913 5	3.0 1	24275 0	1385 00	2.3 3
Flowers																	
	Demonstration of Tuberose variety –Arka Prajwal	Arka Prajwal	-	Irrigat ed	05	01	74. 10	72.30	73.6 0	58.5 0	25.81	29440 0	20365 0	3.2 4	23400 0	1394 50	2.4 7
Ornamen tal																	
Fruit						1											
Spices and condime																	
nts																	
						ſ					ſ						

Commer							1										
cial																	
Fibre																	
crops																	
like																	
cotton																	
Medicin	Mucuna for the	Arka	Rainf ed									NA	NA	NA	NA	NA	NA
aromatic	improvement of soil in Coconut	Dhanwant hari			20	10	240	145	200	NA	NA						
aromatic																	
Fodder																	
	Demonstration of Fodder Sorghum CoFS 31	CoFS 31	-	Irrigat ed	10	2.5	386	365	381	317	18.3	84000	17825	1.2 3	71000	7200	1.1 2
	Demonstration of Marvel Grass - Perennial Fodder Dicanthium annulatum	Marvel Grass	-	Irrigat ed	5	1	-	-	Milk Yiel d 8 Litre s	Milk Yiel d 5 Litre s	3 litres	31680	17280	2.2	18000	8100	1.5
Plantatio																	
n																	
Fibre																	
Others																	
(pl.speci																	
fy)																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
 ** BCR= GROSS RETURN/GROSS COST
 H – Highest Yield, L – Lowest Yield A – Average Yield









Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/diseases etc.)

	Data on other parameters in relation	on to technology demonstrated
Parameter with unit	Demo	Check
ICM in Tomato		
A: Early leaf blight percent disease	A;2.89	A:16.89
incidence	B:5.66	B:19.79
B:Late leaf blight percent disease	C: 3.66	C: 18.68
incidence	D: 128.6	D: 134.8
C:TLCV percent disease incidence		
D;Plant height		
Demonstration of foxtail millet Variety	(A) 122.10, (B) 5.88,(C) 2.68	(A) 117.66 ,(B) 5.08, , (C) 2.34
DHFt 109-3 for Value Addition		
(A) Plant height (cm), (B) Productive		
tillers (no.), (C) Straw yield (t/ha),		
Blast incidence per cent	0	23.5
Plant height in cm	94.5	88.4
Dry matter Production of Musune in	20 tons per ha, because of mulch crop,	Vacant land where negligible amount of Dry matter produced where savior
Coconut	92% less weed intensity was observed	Weed intensity observed as well as available moisture to Coconut was less
Cocollat	compared to check plot.	when compared to demo.

5. B2. Feedback on technologies demonstrated

Name of	Useful characters as well as constraints of technology	Socio-economic as well as administrative
technology		constraints for its adoption
demonstrated		
Demonstration of	Resistant to Tomato Leaf Curl, Bacterial wilt, Early blight and Late	Nil
Arka Abedh : F1	blight causes major damage to crop and very high yielder.	
Hybrid resistant		
to Tomato Leaf		
Curl, Bacterial		
wilt, Early blight		
and Late blight		
Ragi KMR 630	95-100 days duration, Tolerant to blast	Nil
Aerobic paddy	Water saving, High nutritional value, labor saving	Nil
Paustic- 9		
ICM in French	Arka Arjun was found to be more profitable with an additional income	Nil
bean – Arka Arjun	of Rs. 27,498 per ha as compared to Local during summer.	
ICM in Chilli –	Arka Harita hybrid gives high yield and pungency, Less leaf curl	Nil
Arka Harita	incidence and fetches good price in the market compared to local.	
ICM in Tuberose-	Early flowering (65 days), Medium sized with light pinkish and more	Nil
Arka Prajwal	numbers of florets per plant, suited for loose flowers & garland. Medium	
	shelf life (3 days)	



FLD - Enhancement of Productivity of Finger millet by drought tolerant variety KMR 630



FLD - Demonstration of water saving Aerobic Paddy Paustic-9

Type of	Name of the	Bree	No.	No.	Name of the	f Yield (kg/animal)		%	*Eo demons	conomics of tration Rs	of ./unit)	*Econ	omics of a (Rs./unit)	check		
livestoc k	demonstrate d	d	Dem 0	Unit s	paramete r with unit]	Demo)	Chec k if any	Increas e	Gross Retur	Net Retur	** BC P	Gross Retur	Net Retur	** BC P
						Η	L	Α			11	11	К	11	11	ĸ
Dairy																
Poultry																
Rabbitry																
Pigerry																
Sheep and																
goat																
Duckery																
Others																
(pl.specify)																

5.B.3. Livestock and related enterprises

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= Gross Return/Gross Cost

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, intercalving period etc.)
Parameter with unit	Demo	Check if any

5. B4. Feedback on livestock technologies demonstrated

Name of livestock technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption

5.B.5. Fisheries

Tune of	Name of the	Duos	No.	Units	Name of the		Yie	eld (q/	/ha)	%	*E demons	conomics tration (Re	of s./unit)	*Econ	omics of ((Rs./unit)	check
Breed	demonstrate d	d	Dem o	Area (m ²)	paramete r with unit]	Demo	D	Chec k if any	Increas e	Gross Retur	Net Retur	** BC	Gross Retur	Net Retur	** BC
						Η	L	Α			п	п	к	п	п	ĸ
Common																
carps																
Mussels																
Ornamenta																
l fishes																
Others																
(pl.specify)																
													1			

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)

Data on other parameters in relation to technology demonstrated									
Parameter with unit Demo Check if any									

5. B6. Feedback on fisheries technologies demonstrated

Name of fisheries technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption

5.B.7. Other enterprises

Name of the Variet		No. of /		ts Name of the paramet		Yield			%	*Economics of demonstration (Rs./unit) or (Rs./m2)			*Economics of check (Rs./unit) or (Rs./m2)			
Enterprise	demonstrat ed	species	Demo	Area {m ² }	er with unit	I	Demo)	Chec k if any	e	Gross Retur	Net Retur	** BC R	Gross Retur	Net Retur	** BC R
						Н	L	Α								
Oyster mushroom																

Button													
mushroom													
Vermicompo													
st													
Sericulture													
Apiculture													
Others													
(pl.specify)													
Value addition	Drum stick leaves: Value Addition, Branding and Market linkage	2SHG s	2	On-going									
Value addition	Coconut Coir, Ridge gourd fiber and Lavancha root - Value Addition, Branding and Market linkage	1SHG	1						C	On-going			

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= Gross Return/Gross Cost

H-High L-Low, A-Average

Data on additional parameters other than yield (viz., additional income realized, employment generation, quantum of farm resources recycled etc.)

Data on other parameters in relation to technology demonstrated								
Parameter with unit Demo Local								

5. B8. Feedback on enterprises demonstrated

Name of	Useful characters as well as constraints of technology	Socio-economic as well as
enterprise		administrative constraints for its
demonstrated		adoption

5.B.9. Farm implements and machinery

Name of the	Cost of the	Name of the technology	No. of	Area covere d	Name of the operatio	Labour requirement in Mandays		Labour requirement in Mandays		Labour requirement in Mandays		Labour requirement in Mandays		Labour requirement in Mandays		%	Saving s in labour	*Ec demons	conomics stration (F	of Rs./ha)	*Econ	omics of (Rs./ha)	check
impleme nt	impleme nt in Rs.	demonstrate d	Dem o	under demo in ha	n with unit	Dem o	Chec k	e	(Rs./ha)	Gross Retur	Net Retur	** BC	Gross Retur	Net * Retur E	** BC								
										n	n	К	n	n	R								

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= Gross Return/Gross Cost

Data on additional parameters other than labour saved (viz., reduction in drudgery, time etc.) Data on other parameters in relation to technology demonstrated

Parameter with unit	Demo	Local

5. B10. Feedback on farm implements demonstrated

Name of farm implement demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption



FLD - Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition



FLD - Demonstration of Brown Top Millet for Value Addition and Market linkage



Demonstration on Nutri Garden at Karemadenahalli and Tanganahalli

Sl.No.	Activity	No. of activities	Number of	Remarks
	6	organised	participants	
1	Field days	02	340	 Director, IIHR was also participated Field on Ridge gourd
				demo
2	Farmers Training	02	76	-
3	Media coverage	02	5520	

5.B.6.Extension and Training activities under FLD

4	Training for extension	-	-	
	functionaries			
5	Others (Please specify)	-	-	



ICM in Chilli – Arka Harita



ICM in Tuberose – Arka Prajwal



ICM in French bean – Arka Arjun

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of	Name of the technology	Name of the	No. of	Are		Yield (q/		(q/ha)		*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
Breed	demonstrate	hybri	Dem	a (ha)		Demo		Chec	e	Gross	Net	**	Gross	Net	**
	d	a	0		Н	L	А	K		Return	Return	BC R	Return	Return	BC R
Cereals															
Bajra															
Paddy															
Sorghum															
Wheat															
Others															
(pl.specify) Total															
Oilseeds															
Castor															
Mustard															
Samo															
Sunflower															
Groundnut															
Soybean															
(pl specify)															
(pi.speeny)															
Total															
Pulses															
Blackgram															
Bengalgra															
m															
Redgram															
(pl specify)															
Total															
Vegetable															
crops															
Bottle															
Capsicum															
Others															
(pl.specify)															
Cucumber															
Cucumber	Demonstrati on of Arka														
	Abedh : F1 Hybrid resistant to	Arka		2.0											
	Tomato Leaf Curl,	Abed h	05	0	63.78	58.60	61.24	47.85	27.98	612440	401646	2.91	478540	266612	2.26
	wilt. Early														
	blight and														
Tomato	Late blight														
Tomato															
Okra															
Onion															
Potato															
Field bean															
(pl.specify)															
	Arka Harita -														
	F1 hybrid- AMC 20g/lit Vegetable														
	Special- 3gm	Arka Harita	05	01	240.5	225.4. 6	238.50	194.20	22.81	298125	199135	3.01	242750	138500	2.33
	sticky traps														
Chilli	@7 gm /lit														

					304.2		299.7	242.0		91056	60078		72129	40511	
Total			10	3	8	58.6	4	5	50.79	5	1	5.92	0	2	4.59
Commerci															
al crops															
Sugarcane															
Coconut															
Others															
(pl.specify)															
Tuberose	Demonstration of Tuberose variety –Arka Prajwal	Arka Prajw al	05	01	74.10	72.30	73.60	58.50	25.81	294400	203650	3.24	234000	139450	2.47
Total			05	01	74.10	72.30	73.60	58.50	25.81	294400	203650	3.24	234000	139450	2.47
Fodder															
crops															
Maize															
(Fodder)															
Sorghum															
(Fodder)															
Others															
(pl.specify)															
Total															

H-High L-Low, A-Average

*Please ensure that the name of the hybrid is correct pertaining to the crop specified

Feedback on crop hybrids demonstrated

Name of crop hybrid demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of Arka Abedh : F1 Hybrid resistant to Tomato Leaf Curl, Bacterial wilt, Early blight and Late blight	Resistant to Tomato Leaf Curl, Bacterial wilt, Early blight and Late blight causes major damage to crop and very high yielder.	Nil
ICM in Chilli –Arka Harita	Arka Harita hybrid gives high yield and pungency, Less leaf curl incidence and fetches good price in the market compared to local.	Nil
ICM in Tuberose- Arka Prajwal	Early flowering (65 days), Medium sized with light pinkish and more numbers of florets per plant, suited for loose flowers & garland. Medium shelf life (3 days)	Nil

PART VII. TRAINING

7.A.. Training of Farmers and Farm Women including sponsored training programmes (On campus)

	No. of	f No. of Participants										
Area of training	Courses	Mala	General	Tatal	Mala	SC/ST	Tatal	Mala	Grand Tota	al Tetel		
Crop Production		Male	remaie	Total	Male	remaie	Totai	Male	Female	Total		
Weed Management												
Resource Conservation Technologies												
Cropping Systems												
Crop Diversification												
Integrated Farming												
Micro Irrigation/Irrigation												
Seed production												
Nursery management												
Integrated Crop Management												
Soil and Water Conservation												
Integrated Nutrient Management												
Production of organic inputs												
Others (pl.specify)												
Horticulture												
a) Vegetable Crops												
Production of low value and high volume crop												
Off-season vegetables												
Nursery raising												
Exotic vegetables												
Export potential vegetables												
Grading and standardization												
Protective cultivation												
Others (pl.specify)												
b) Fruits												
Training and Pruning												
Layout and Management of Orchards												
Cultivation of Fruit												
Management of young plants/orchards												
Rejuvenation of old orchards												
Export potential fruits												
Micro irrigation systems of orchards												
Plant propagation techniques												
Others (pl.specify)												
c) Ornamental Plants												
Nursery Management												
Management of potted plants												
Export potential of ornamental plants												

Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology	02	28	20	48	9	0	9	37	20	57
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers	01	98	0	98	0	0	0	98	0	98
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening										
and nutrition gardening	1		1	1	1	1				

Design and development of low/minimum cost										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	01	0	36	0	0	0	0	0	36	36
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
				•						

Production of Inputs at site										
Seed Production										
Planting material production	01	11	15	26	0	0	0	11	15	26
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	5	137	71	172	9	0	9	146	71	217

7.B Training of Farmers and Farm Women including sponsored training programmes (Off campus)

	No. of	No. of Participants										
Area of training	Courses	s General		SC/ST			Grand Total					
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
Crop Production												
Weed Management												
Resource Conservation Technologies												
Cropping Systems												
Crop Diversification												
Integrated Farming												
Micro Irrigation/Irrigation												
Seed production												

Nursery management										
Integrated Crop Management	02	39	06	45	0	0	0	39	6	45
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	01	18	7	25	9	0	9	27	7	34
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify) Organic Farming in Horticulture crops	02	35	01	36	0	0	0	35	01	36
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										

Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management	01	33	0	33	0	0	0	33	0	33
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify) Climate Smart Agriculture	01	21	7	28	0	0	0	21	7	28
Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management	01	98	0	98	0	0	0	98	0	98
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening	02	7	30	37	0	0	0	7	30	37
Design and development of low/minimum cost										
Designing and development for high nutrient										
efficiency diet Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	25	25	0	0	0	0	25	25
Women empowerment										
Location specific drudgery production			1							
Rural Crafts			1							
Women and child care										
Others (pl.specify)										

Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	01	22	5	27	6	0	6	28	6	34
Integrated Disease Management	01	26	0	26	0	0		26	0	26
Bio-control of pests and diseases										
Production of bio control agents and bio										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Planting material production										
Planting material production										
Bio-agents production										
Dis-pesticides production										
Bio-fertilizer production	01	0	25				0	0	25	25
vermi-compost production	01	0	25	25	0	0	0	0	25	25
Organic manures production										
Production of try and fingerlings										
Production of Bee-colonies and wax sheets	01	20	05	25	20	0	20	40	05	45
Small tools and implements										
Production of livestock feed and fodder										

Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl. specify)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths	01	24	05	29	0	0	0	24	05	29
Others (pl.specify) IIHR technologies and extension activities	01	32	06	38	0	0	0	32	6	38
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	17	375	122	497	35	0	35	410	123	533

7.C.Training for Rural Youths including sponsored training programmes (on campus)

	No. of				No. c	of Particip	ants			
Area of training	Courses		General			SC/ST		(Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production	4	51	27	78	12	3	15	63	30	93
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										

Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify) Production of Medicinal plants	01	02	28	30	0	0	0	02	28	30
TOTAL	5	53	55	108	12	3	15	65	58	123

7.D. Training for Rural Youths including sponsored training programmes (off campus)

	No. of				No. c	of Particip	ants			
Area of training	Courses		General			SC/ST		(Grand Tota	al
Nursary Managament of Horticulture arons		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horiculture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										

Rabbit farming					
Poultry production					
Ornamental fisheries					
Composite fish culture					
Freshwater prawn culture					
Shrimp farming					
Pearl culture					
Cold water fisheries					
Fish harvest and processing technology					
Fry and fingerling rearing					
Any other (pl.specify)					
TOTAL					

7.E.Training programmes for Extension Personnel including sponsored training programmes (on campus)

	No. of				No. o	f Participa	ants			
Area of training	Courses		General			SC/ST		(Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Productivity enhancement in Plantation crops	1	16	6	22	-	-	-	16	6	22
Total	1	16	6	22	-	-	-	16	6	22

7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus)

	No. of				No. of	f Participa	nts				
Area of training	Courses	urses General				SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops											
Integrated Pest Management											
Integrated Nutrient management											

Rejuvenation of old orchards					
Protected cultivation technology					
Production and use of organic inputs					
Care and maintenance of farm machinery and implements					
Gender mainstreaming through SHGs					
Formation and Management of SHGs					
Women and Child care					
Low cost and nutrient efficient diet designing					
Group Dynamics and farmers organization					
Information networking among farmers					
Capacity building for ICT application					
Management in farm animals					
Livestock feed and fodder production					
Household food security					
Any other (pl.specify)					
Total					

7.G. Sponsored training programmes conducted

		No. of Courses	of rses General SC/ST Grand Total										
S.No.	Area of training			General			SC/ST		(Grand Tota	al		
			Male	Female	Total	Male	Female	Total	Male	Female	Total		
1	Crop production and management												
1.a.	Increasing production and productivity of crops												
1.b.	Commercial production of vegetables												
2	Production and value addition												
2.a.	Fruit Plants												
2.b.	Ornamental plants												
2.c.	Spices crops												
3.	Soil health and fertility management												
4	Production of Inputs at site												
5	Methods of protective cultivation												
6	Others (pl.specify)												
7	Post harvest technology and value addition												
7.a.	Processing and value addition												
7.b.	Others (pl.specify)												
8	Farm machinery												
8.a.	Farm machinery, tools and implements												
8.b.	Others (pl.specify)												
9.	Livestock and fisheries												
10	Livestock production and management												
10.a.	Animal Nutrition Management	1	0	0	0	5	28	33	5	28	33		
10.b.	Animal Disease Management												
10.c	Fisheries Nutrition												
10.d	Fisheries Management												
10.e.	Others (pl.specify)												
11.	Home Science												
11.a.	Household nutritional security												
11.b.	Economic empowerment of women												
11.c.	Drudgery reduction of women												
11.d.	Others (pl.specify)												
12	Agricultural Extension												
12.a.	CapacityBuilding and Group Dynamics												
12.b.	Others (pl.specify)												
	Total	1	0	0	0	5	28	33	5	28	33		

Details of sponsoring agencies involved

- 1. 2.

- 3.

7 H Dotoils of	Vocational	Training	Drogrommos	oorright	out by	VVKa	for rural	vouth
7.11. Details of	vocational	Training	1 rogrammes	carrieu	out by	IN VINS	ioi iuiai	youu

		No. of				No.	of Particip	ants			
S.No.	Area of training	Courses		General			SC/ST			Grand Tota	վ
		courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl. specify)										
2	Post-harvest technology and value addition										
2.a.	Value addition										
2.b.	Others (pl. specify)										
3.	Livestock and fisheries										
3.a.	Dairy farming										
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl. specify)										
4.	Income generation activities										
4.a.	Vermi-composting										
4.b.	Production of bio-agents, bio-pesticides,										
	bio-fertilizers etc.										
4.c.	Repair and maintenance of farm machinery										
	and implements										
4.d.	Rural Crafts										
4.e.	Seed production										
4.f.	Sericulture										
4.g.	Mushroom cultivation										
4.h.	Nursery, grafting etc.										
4.i.	Tailoring, stitching, embroidery, dying etc.										
4.j.	Agril. para-workers, para-vet training										
4.k.	Others (pl. specify)										
5	Agricultural Extension										
5.a.	Capacity building and group dynamics										
5.b.	Others (pl. specify)										
	Grand Total										

7.F. Details of Skill Training Programmes carried out by KVKs under ASCI

S.	Name of Job	Date	Date of	Total				No. o	f Partici	ipants				Date of	No of Participant
No	Role	of	Clos	Participant		General	l		SC/ST		G	rand To	tal	Assessmen	s passed
	Non	Start	e	s	Mal	Femal	Tota	Mal	Femal	Tota	Mal	Femal	Tota	t	assessment
					e	e	1	e	e	1	e	e	1	•	
1															
2.															

PART VIII – EXTENSION ACTIVITIES

Nature of Extension	No. of Program	No.	of Particip (General)	ants	No.	of Particip SC / ST	oants	No	o.of extensi personnel	ion
Programme	mes	Male	Female	Total	Male	Female	Total	Male	Female	Total
Advisory services	26	1801	300	2101	113	46	159	122	42	164
Farmers visit to KVKs	165	5200	1204	6404	120	30	150	24	8	32
Lectures delivered as										
resource persons	19	344	292	636	25	0	25	108	24	132
Diagnostic Visits	20	68	5	73	2	0	2	9	0	9
Field Days	6	233	18	251	56	0	56	0	0	0
Group discussions/ meetings	7	61	12	73	0	0	0	87	14	101
Kisan Gosthies	0	0	0	0	0	0	0	0	0	0
Film Shows	0	0	0	0	0	0	0	0	0	0
Self help group meetings	0	0	0	0	0	0	0	0	0	0
Mahila mandals meetings	0	0	0	0	0	0	0	0	0	0
Kisan Melas	5	7972	3603	11575	150	134	284	0	0	0
Exhibitions	1	400	350	750	0	0	0	0	0	0
Scientist visit to farmers										
fields	35	123	41	164	0	2	2	1	0	1
Soil health camps	0	0	0	0	0	0	0	0	0	0
Animal health camps	0	0	0	0	0	0	0	0	0	0
Plant health camps	0	0	0	0	0	0	0	0	0	0
Farm Science Club meetings	0	0	0	0	0	0	0	0	0	0
Ex-trainees Sammelans	0	0	0	0	0	0	0	0	0	0
Farmers seminars	0	0	0	0	0	0	0	0	0	0
Workshops	1	0	0	0	0	0	0	35	15	50
Method Demonstrations	1	22	0	22	0	0	0	2	0	2
Celebration of important										
days	9	166	59	225	62	54	116	28	7	35
Special day celebrations										
Exposure visits	1	25	0	25	11	0	11	0	0	0
Others, Please specify	0	0	0	0	0	0	0	0	0	0
Bi Monthly Meeting	2	0	0	0	0	0	0	58	35	93
Total	298	16415	5884	22299	539	266	805	474	145	619

8.1. Extension Programmes (including extension activities undertaken in FLD programmes)

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1	Popular articles	04
2	Newspaper coverage	05
3	Extension Literature	02
4	Radio Talks	02
5	TV Talks	04
6	CD/DVD/Video clips	05
7	Animal health camps (no. of animal treated)	0
8	KVK Portal Information	140
	KMAS messages	18
	Technical reports	08
	Total	188

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL

9.A. Production of seeds by the KVKs

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)		1			P D D D
	Ragi	ML-365	5.80	29000	84
	Ragi	KMR-630	2.0	10000	21
	Navane	DHFT-109-3	1.25	6250	4
	Korale	local	0.60	3600	7
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
-	Tomato	Arka meghali	0.166	49800	300
	Brinjal	Arka Neelkant	0.23	69000	140
	chilli	Arka Suphal	0.01	3000	12
	Okra	Arka anamika	2.41	96400	87
	Pumpkin	Arka Suryamukhi	0.26	52000	148
	Ridge gourd	Arka prasana	3.05	762500	215
	Amaranthus	Arka Suguna	0.07	3500	47
	Palak	Arka anupama	0.18	7200	86
	French bean	Arka Komal	1.15	34700	32
	Bottle gourd	Arka bahar	0.155	31000	124
Flower crops		1			
Spices		1			
Fodder crop seeds		1			
-	Fodder sorghum	Co(FS)-29	0.14	5600	11
	Fodder sorghum	Co(FS)-31	0.38	15200	21
Fiber crops					
Forest Species					
Others (specify)		1			
Spawn	Mushroom	Oyster	13	101922	68
*					
Medicinal crops	Mucuna	Arka Dhanwantari	6.30	75600	60
	Mucuna	Arka Subra	10.20	122400	140
Green manuring crops	Sunhemp	local	0.35	2800	nil
Plantation Crops		1			
	Arecanut Seed Nuts (Loose) – Nos.	Hirehalli Tall	79628 Nos	238884	56
	Arecanut Seed Nuts (Degraded)	Hirehalli Tall	13	26000	2
	Arecanut Seed Nuts (Auction)	Hirehalli Tall	41.60	10,40,000	1
	Coconut nuts	Arsikere Tall	10930	164000	1
Total			34.701	1379550	1539

9.B. Production of hybrid seeds by the KVKs

Crop category	Name of crop	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided

Total			

9.C. Production of planting material by the KVKs

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Commercial					
Vegetable seedlings					
Fruits					
	Acid lime Seedlings	Kazi lime	2500	175000	125
	Tamarind Grafts	PKM-1	1200	84000	48
	Tamarind Seedlings	Gottigere	1000	40000	40
	Amla Grafts	NA7,NA 5	754	52780	62
	Guava Grafts	Allahabad Safed, Arka Mridula, Arka Kiran	2812	196840	56
	Jamun Seedlings	Dhupadal	290	20300	22
	Mango Grafts	Alphanso,, Kesar, Langra, Mallika & Dashahari	3574	250180	66
	Pomello Seedlings	Devanahalli Local	206	8240	38
	Custard Apple Seedlings	Balnagar	368	25760	32
	Lakshmana Phala Seedlings	Local	1069	42760	152
	Rose Apple Seedlings	Local	150	6000	30
	Cherry Seedlings	Singapore cherry	40	1600	20
Ornamental plants					
Medicinal and Aromatic					
Plantation					
	Arecanut Seedlings	Hirehalli Tall	31000	1550000	52
	Arecanut Sprouts	Hirehalli Tall	28000	196000	35
Spices					
Tuber					
Fodder crop saplings					
Forest Species					
Others(specify)					
Total			72963	2649460	778

Home Science Products	Quantity (Kg.)	Value (Rs.)	Number of farmers to whom provided
Amla Candy	43	12900	255
Amla Squash in Ltrs	220	28600	185
Ragi Malt	95	18990	218
Others (specify)			
Total	358	60490	658

9.D. Production of hybrid planting materials by the KVKs

Crop category	Name of crop	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Fruits	Mango	Mallika	1950	136500	87
	Guava	Arka Kiran	1210	84700	58
Total			3160	221200	145

9.C. Production of Bio-Products

	Name of the bio-product			Number of
		Quantity		farmers to
Bio Products		(q)	Value (Rs.)	whom provided
Bio Fertilizers	AMC powder	22.56	3,03,856	564
	AMC liquid (lit)	3,238	8,43,647	405
Bio-pesticide				
Bio-fungicide				
Bio Agents	Fruit Fly Traps and lures (Nos.)	18,601	3,73,120	465
Micro Nutrient Fertilizers	Banana Special	75.26	13,68.000	836
	Vegetable Special	22.59	4,75,380	452
	Mango Special	83.98	15,74,244	. 763
	Citrus Special	22.56	6,71,472	743
Total		22065.95	4241719	4228

9.D. Production of livestock

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows	Hallikar	6	69,500	6
Buffaloes				
Calves				
Sheep	Bannur	21	1,42,570	21
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Total		28	2,12,070	27

PART X – PUBLICATIONS, SUCCESS STORY, INNOVATIVE METHODOLOGY, ITK, TECHNOLOGY WEEK

10. A. Literature Developed/Published (with full title, author & reference)

(i) KVK Newsletter:

Date of start: _____ Periodicity: _____ Copies printed in each issue: _____

(ii) Summary of Literature developed/published

Item	Number
Research papers- International	0
Research papers- National	0
Technical reports	4
Technical bulletins	0
Popular articles - English	2
Popular articles – Local language	3
Extension literature	2
Others if any	0
News paper article	1

(iii) Details of Literature developed/published

Please provide the details of above publication in the following format:

1. Research articles in journals: Complete citation indicating authors, year of publication, title of publication, journal name, volume and page number in sequence.

- 2. Technical Reports/ bulletins: Authors name, Title of the technical report, name of publishing KVK, number of pages.
- 3. Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

Radha R.Banakar, Somashekhar and Loganandhan N (2021) Nurti-Garden- Healthy food from our own backyard nutri-garden. Siri Samrudhi kannada quarterly magazine. Volume: 4, Issue: 2, Page Number: 15-18.

4. Extension literature; Authors name, month and year of publication, Title of extension literature like folders, pamphlets etc., name of publishing KVK, number of pages.

10.B. Details of Electronic Media Produced

S. No.	Type of media	Title	Details
1	CD / DVD	ICAR-KVK Hirehalli : A glance	Activities of KVK
		Farm pond for Rain water	
		harvesting and improving	Shorts videos
		livelihood of farmers.	
		Renovation of Check dam for	
		recharge of open well and bore well	
		Dry land horticulture- Amla	
		(Indian gooseberry for improving	
		livelihood of farmers	
2	Mobile Apps	NIL	
3	Social media groups with KVK as	eHorticulture,WhatsApp Group	Knowledge sharing and diagnosis
	Admin		of pest & disease based on images
			shared by farmers.

4	Facebook account name	iihrkvk	Dissemination	of	IIHR
		https://www.facebook.com/iihr.kvk	Technologies and	KVK	Updates
			and Activities		
5	Instagram account name	https://twitter.com/iihrkvk	Dissemination	of	IIHR
			Technologies and	KVK	Updates
			and Activities		
6	Others if any	kvkiihr	Dissemination	of	IIHR
			Technologies and	KVK	Updates
			and Activities		

10.C. Success Stories / Case studies, if any (two/three-pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

Success Story – 1

Title: Success story of Mushroom grower

Background: Mushrooms are gradually becoming popular as they are rich in minerals, vitamins, very low on fat and sugar. They are good source of protein and contain many essential amino acids. It is also known to have medicinal value and certain varieties of mushrooms can inhibit growth at cancerous tumor. Leisure time can be utilized effectively by involving in mushroom cultivation enterprise. Mushroom production is labour and management intensive. There is ample scope for mushroom industry to thrive successfully and can become a lucrative business for the unemployed rural youth, self-help groups, farm women who are in search of viable activities which are promising and giving good returns and an additional income source for the farmer. Mushroom cultivation can effectively utilize theagro residues for production of protein rich food and plays crucial role in management of agro residues. Mushroom cultivation is an eco-friendly activity, as it utilizes the wastes from agriculture which are available in huge quantities in every corner of the state and in turn produces fruiting bodies with excellent nutritional and medicinal attributes.

Introduction: Mrs.Renukadevi, 35 years old graduate woman is involved in mushroom production from last one year. She resides at Arakere village of Tumakuru taluk in Tumakuru district. Before starting mushroom cultivation, she used to prepare and sell paper bags, plastic wall hangings and garlands. But she was not happy with that due to low income and marketing problem. Then she thought of doing something new independently. After getting one day training at Krishi Vigyan Kendra, Hirehalli, Tumakuru, she established her mushroom production unit in her residence. Initially, she started producing oyster mushroom cultivation in small scale by getting spawn from KVK. Later she attended a 25 days skill training programme on Mushroom grower under ASCI (AgricultureSkill Council of India) programme during 2019-20 at KVK. Then she established this mushroom production unit in a bigger way.

Outcome: Initially she used to prepare 20-30 kg of mushroom per month. After training and guidance from our KVK, she is now producing 130-140 kg of mushroom per month. Now she is selling fresh mushroom both

locally and sending to Bengaluru with the brand name of "White pearl". She is also producing oyster mushroom on buy back basis with the suppliers from Bengaluru.

Impact: Now she started to sell fresh mushroom in different melas organized by Government Organizations and NGO's. She started to give trainings to different SHG's members. After getting training from her, 3-4 members started producing mushroom in a small scale.

Economic gains: By selling mushroom monthly she is getting an income of Rs 18,000-20,000/. She also created employment opportunity to two members. In future, she is planning to start value addition in terms of dried mushroom powder and other value added products. After several failures in mushroom cultivation, now she has become entrepreneur and mushroom production is the main source of income to her family.

Table 1: Production and Income details Before and After ASCI training programme

Mushroom production (kg)		Annual	Income (Rs)	% increase
Before	After	Before	After	366.66
30	140	54,000	2,52,000	





Success Story – 2

Bountiful harvest in Mango cultivation

Introduction:

In recent years mango cultivation has taken a back seat in crop preference in Karnataka, as only a few farmers are bold enough to cultivate mango crop in large areas. Though there are many reasons such as strong and hot winds, that affect flowering and fruit formation, heavy hailstorm and irregular rainfall, absence of proper marketing channels appears to be the main reason. But a farmer from Madhugiri taluk of Tumakuru district has a different story to tell. He is cultivating mango crop in 30 acres, but not satisfied with the performance. But, after the intervention of KVK, he is happy with the returns.

Background:

Sri.Sathyanarayana Reddy, aged 57, is a progressive farmer from Ayyanahalli village, Madhugiri taluk, Tumakuru District, Karnataka. He is educated, settled in Tumakuru, taking care of his 30 acres mango orchard, having Alphanso and Mallika varieties. Every year, there used to be heavy crop loss due to poor management practices that led to attack of pests like mango hoppers, fruit flies etc and diseases like powdery mildew and dieback. Initially, he used to spray insecticides by consulting other farmers and stake holders. But, there was no control over the pests and in due course, the tress were debilitating. The farmer was in search of suitable interventions and proper guidance for his mango dry land farming. Further, he used to apply blanket application of manures and fertilizers as well.

Interventions:

Technology:

During 2018-19, he came to know about the ICAR-Krishi Vigyan Kendra (KVK), Hirehalli (under IIHR) at Tumakuru and he contacted the Horticulture SMS. He visited his mango orchard and gave advice to go for integrated approach of good management practices by applying Enriched FYM with Arka Microbial Consortium @ 50 kg per tree and irrigation management etc. He also advised application of Mango special as foliar spray @ 5gm per litre of water @ 5 sprayers in a year to enhance the flowering, uniform mango size etc. Neem soap application @ 7 gm/litre of water was suggested to minimise the incidence of mango hoppers for every 8 days interval during flower initiation and at flowering. Installation of 10-15 Nos./ha fruit fly Pheromone traps for monitoring mango fruit flies and Arka Borer Control for management of stem borer were also advised.

Output and outcome:

In the year 2019-20, from the first bearing, he got a yield of 12,000 kgs in Alphonso and 29,604 kgs in Mallika variety. He could obtain a net profit of Rs.4,96,080 for the whole orchard (12 ha). During 2020-21 same interventions were followed and he got a yield of 13,240 kgs in Alphonso and 33,032 kgs in Mallika. He could obtain a net income of Rs. 5,96,040 from the 30 acres of Mango orchard.

Economic gains :

Before interventions, he used to get an income of Rs.21,380 per hectare only (Table 1). After the technical interventions from KVK, he found a good market due to quality produce. Sri.Sathyanarayana Reddy earned an income about Rs.45,505 per hectare by following the methodologies suggested by KVK (IIHR) for production and post-harvest care of mangoes.

Details	Yield	Gross Income	Net Income
	(q/ha)	(Rs/ha)	(Rs/ha)
	Befo	re Intervention	
2018-19	26.76	53520	21380
	Total returns f	for 12 ha	
	297.12	642240	256560
	After K	VK Intervention	
2019-20	34.67	69340	41340
2020-21	38.56	77120	49670
Mean Average	36.62	73230	45505
	Total 1	returns for 12 ha	
2019-20	416.04	832080	496080
2020-21	462.72	925440	596040

Table 1. Economic analysis of a farmer's returns before and after adoption of technolog	y for	mango
crop		





Plot visit before interventions





Plot visit after the interventions

Success Story – 3

Participatory Seed production with KVK for Higher income

Background:

Seed is critical input in Agriculture, and the availability of Quality seed plays a major role in sustainable yield as well as income of the family. Large number of Vegetable Varieties and Hybrids are released by the public sector research institutes like Indian Institute of Horticultural Research which have umpteen numbers of potential varieties/hybrids for their high yield and other nutritional benefits. Unlike field crops, no government agencies like State seed corporations, etc., are involved in the multiplication of vegetable seed varieties. Farmers are in need of quality seed material in vegetable crops where Multiplications of such varieties/Hybrids need to be done in large quantity which is not possible in the KVK farm/Institute farm. Looking at this problem, Participatory seed production is planned by Krishi Vigyan Kendra, Hirehalli with different farmers in Tumakuru District and under this programme, A farmer Mr.Veerakyatharayappa S/o Iranagappa a resident of Marutipura village in Madhugiri Tq of Tumakuru district with 5 Ac land use to cultivate traditional crops like paddy, ragi and Redgram before the interventions by KVK during 2020 later advised to take up the seed production activity.

Interventions:

For Efficient and effective implementation Seed production activity, which can be taken up in farmers' field under strict vigilance of KVK/Institute staff and for maintaining the seed quality, a memorandum of Agreement is made between Farmer and the KVK for defining terms and conditions on

procurement rate and other modalities. These seeds produced by the farmer will be procured by KVK as per the agreement between two parties. Later this seed material will be processed at the KVK and sold to the farmers. During the first year, He had taken these seed production activity in four crops like cotton hybrid (for Private agencies), Ragi (ML-365), Okra (Arka anamika) and Ridge gourd (Arka Prasana) the details are given in table

Components	Names	Area	Production	Gross Income (Rs.)	Net Income (Rs.)
Field Crop 1	Cotton Hybrid seed Production	2 Acre	4 Q	140000	85000
Field Crop 2	Ragi- ML 365	1 Acre	10 Q	40000	25000
Hort. Crop 1	Okra- Arka anamika	1 Acre	3 Q	75000	52000
Hort. Crop 2	Ridge gourd Arka Prasana	1Acre	1Q	120000	80000
Total		5	20 Q	335000	242000

Output and outcome:

Before implementing this intervention, the farmer used to get annual income of Less than One lakh from General crop production Red gram, Ragi, Maize, etc. unlike seed production, where earlier He not only faced problems like low income in Red gram, ragi crop etc. also fluctuation in market price for their produce. With intervention of Farmers participatory seed production in Cotton, Ridge gourd, etc., he is getting Net annual income of Rs.242000/- without facing any marketing problem.

Looking at the success of this farmer, large number of surrounding farmers are interested in Seed production activity and want to collaborate with KVK for seed production activity in surrounding area, for this already more than 30 farmers had come forward and started seed production in their respective land, still many more wanted to involve in this enterprise of seed production activity for sustainable income.

Sustainable farm income of the farmers involved in the participatory seed production and Also Availability of Quality seed to the large number of farmers of the district, leading to increased level of productivity in the district by virtue of supplying the quality seed material to large number of farmers.

Looking at the success of this, KVK wanted to involve the various FPO's present in the district to through group approach for various crops, where involvement of FPO will further strengthen this kind of programme for Capacity development, procurement and marketing of the seeds produced through this approach.

Here the main focus is not only quality seed production which indirectly helpful for the enhancement of income level of the farmers but this kind of activity also helpful for employment generation as activity of seed production involves Manual crossing, Seed extraction, drying, cleaning, packing, etc.,



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Arka anamika Okra Seed production field
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Arka bahar Bottle gourd Seed production

Success Story – 4

Title:- Tomato Hybrid Arka Abedh -A game changer for the farmer's Income

A. Background information about farmer field: The farmers of Pavagada taluk have been growing Pomegranate crop since many years. From 2016 onwards, Pomegranate crop susceptible to many pest & diseases and loss is more than 60 per cent. Farmers are not in a position to get at least cost of cultivation.

At this stage, KVK, Hirehalli popularised the Tomato as an alternative crop to Pomegranate and introduce two hybrids i.e Arka Rakshak (F1 hybrid with triple disease resistance to ToLCV, Bacterial Wilt and Early blight. Fruits square round, large weighs 90-100g, deep red colored and firm. Suitable for fresh market and processing) and Arka Abedh (Multiple disease resistance to Tomato Leaf Curl Disease, Bacterial wilt, Early blight and Late blight. Plants are semi-determinate with dark green foliage. Fruits are firm, oblate round & medium large weighs 90-100g, Bred for fresh market & yields 70-75 t/ha in 140-150 days.) released from Indian Institute of Horticultural Research(IIHR), Bengaluru and demonstrated during the year 2016-17.

- **B.** Interventions: Initially, Farmers are very reluctant to replace the crop by suspecting the low income compared to Pomegranate crop. KVK made lot of efforts to convince the farmers and able to demonstrated Arka Rakshak in 5 farmers field in an area of 2 ha 2016-17 in cluster village (Karikyathanahalli) of Pavagada taluk. Front line demonstration along with local check with Pvt. Hybrids was laid out by following full package of practices.
- **C. Output and Outcome:** After seeing the performance of the crop particularly yield and disease resistance compared to pvt. Hybrids, farmers come ward to growing in more area during the year 2019-20.

At this stage we introduced one more new hybrid Arka abedh. The demonstration plot showed the better plant vigour, number of branches per plant and number of fruits/plant compared control plot. There was significant reduction in ToLCV, Early blight and Late blight as shown in the below table.

Technology	Per cent Disease Incidence			Plant	Avg. No. of	No. of	Fruit color
Practices	ELB (%)	LLB (%)	TLCV (%)	ht. in Branches p cms plant		days to Floweri ng	
Demonstration	2.89	5.66	3.66	128.6	8.80	40 DAP	Light red
Check	16.89	19.79	18.68	134.8	7.40	36DAP	Dark red with yellow band

There was a considerable yield of 27.98 % increase over the check and significant difference in B;C ration in demo(2.91) compared to check(2.26). One of Our FLD Farmer Channmallapa, Pallvalli village, Pavagada taluk was grown in 5 acres of Tomato Arka abedh hybrid and got an yield of 125 tonnes during Kharif 2020-21. He was very much impressed about the crop stand and resistance to Late blight. He always stressed that this hybrid withstand against late blight when all other pvt. hybrids very much susceptible during the same season. Cost of cultivation is Rs.3.13 lakhs. He got very good rate of Rs.12/Kg and got an net income of Rs.8.25 Lakhs.

Particulars	Yield (ton/ha)	% increase in yield	Gross Cost (Rs./ha)	Gross returns (Rs./ha)	Net return (Rs./ha)	B:C ratio
Demonstration	61.24	27.98	210794	612440	401646	2.91
Check	47.85		211928	478540	266612	2.26

- D. Impact : So, seeing the success of the Tomato crop, more than 80 per cent of the Pomegranate farmers diverted to Tomato crop. The area under Tomato crop during the year 2015-16 was 550 ha and increased to 2452 ha during the 2019-20.
- **E. Farmer feedback :** Farmer was very much impressed about the success of Tomato crop compared to Pomegranate crop. Drastic reduction in pesticide usage as well as failure of crop. The hybrids are also impressive because of their yield and Disease tolerance







Success Story – 5

WATER SAVING AEROBIC PADDY PAUSTIC-9 TO COMBAT CLIMATE VULNERABILITY Background

Rice (*Oryza sativa* L.) is the most important cereal crop of India. In Karnataka, about 55–60% of the rice is grown under puddled system and the rest is under a rainfed situation. Traditional rice cultivation method is well-suited to countries and regions with low labour cost and high rainfall, as it is very labour intensive. Irrigated rice is typically transplanted into puddled paddy fields, which includes land preparation with 4-6 inches of standing water and this method of cultivation requires large quantities of water and is labour intensive. It is well known that the rice grown under wetland conditions contribute to the bulk of the rice production but consumes huge amount of water and labour. To keep up the rice production during irrigation water shortage, alternate methods of cultivation of rice is essential. One such strategy is cultivation of rice under aerobic situation. Aerobic rice is a promising rice cultivation system for managing water and growing rice under water-

limited conditions, reduce water losses and increasing water productivity. Aerobic rice usually grown in upland conditions in unpuddled soil with nonflooded conditions, i.e., unsaturated (aerobic) soil with less water requirement

Interventions

New Aerobic Paddy variety Paustic-9 was released in 2019 at University of Agricultural Science, Bengaluru for South Eastern Dry Zone of Karnataka. The main advantages of the drought tolerant Aerobic Paddy of Paustic-9 are profuse root system, plant stand and vigor and tolerance to water stress at both vegetative and reproductive stages. It is known for maturity in 115-120 days, medium duration, direct sowing, no need for puddling, improving soil structure, reduction in pollution, more tillering per seed and 50-60% water saving along with 80% seeds saving and reduction in 30% labour cost. Because of increasing water scarcity, cultivation of Aerobic Paddy variety Paustic-9 was promoted and demonstrated in the villages which have water scarcity.

ICAR- Krishi Vigyan Kendra, Hirehalli, Tumakuru had conducted demonstration of Aerobic Paddy Paustic-9 in D.Nagenahalli and Tanganahalli villages of Koratagere Taluk and Karemadanahalli, Sira Taluk of Tumakuru District. The farmers were selected randomly and provided with 3 kg of Pausstic-9 seeds for aerobic cultivation in 4 ha during 2019 to 2021. Combating the climate vulnerability like intermittent dry spells, the Paustic-9 variety has shown resilience and improved yields.

Output and outcome

The results, as shown in below table, showed an increase in Paustic-9 yield 26.21% over the yield of local Paddy variety (Doddi) and an increase in additional income up to 48 %.

Com	parison of	vield	parameters of	Aerobic	Paddy	Paustic-9	and L	ocal Padd	v variet	v
1		•	1							•

Details of results obtained due to the	Improved technology	Traditional practices	
adoption of technologies	Aerobic Paddy (Paustic-9)	Local Paddy (Doddi)	
Productivity per hectare (q/ha)	31.30	24.80	
Percent increase in productivity per hectare			
	26.21		
Cost of production per hectare (Rs.)	21,750	20,250	
Gross income per hectare (Rs.)	46,950	37,200	
Net income per hectare (Rs.)	25,200	16,950	



Aerobic Paddy of Paustic-9

Impact

The performance of Aerobic Paddy Paustic-9 variety was superior in grain yield over local Paddy (Doddi). The farmers harvested an average grain yield of 31.3 q/ha with an yield advantage of 26.21% over the existing variety. Almost all farmers expressed water saving character of this variety during crop growth period. The water saving was also found to be at about 48.67%. In Aerobic Rice fields, as the soil is maintained under aerobic condi on for the enore crop cycle, the methane production is nil or minimal. As laborer stand in puddled fields, for long hours, days on end, the damage caused to their feet is immense. The cuts and bruises due to sension vity to long on end, the damage caused to their feet is immense. The cuts and bruises condion all these issues are eliminated, as there is no standing water in the field. This long term health benefits to the farm laborers, farming community and the country.

10.D.	Give details of Innovative Methodology or Innovative Approach of Transfer of Technology developed
	and used during the year

S No.	Cuan / Entampica	ITV Dreaticad	Dumpers of ITV	Scientific Detionals
	which can be considered for	technology development	(in detail with suitable pl	hotographs)
10.E.	Give details of Indigenous T	echnical Knowledge prac	cticed by the farmers in f	the KVK operational area

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
	Groundnut	Tying of old Clothes, Installation of scare crow, Installation of empty tin with bell design , Application of phorate all along the borders	Management of Wild boar	Noise and smell scares the animals and birds
	Coconut	Fixing of old oil tin plate all around over middle of trunk.	To avoid the monkey and squirrels	To avoid the climbing of the tree
10 F. Technology Week celebration:

Period of observing Technology Week:FromtoTotal number of farmers visited:Total number of agencies involved:Number of demonstrations visited by the farmers within KVK campus :

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized			
Exhibition			
Film show			
Fair			
Farm Visit			
Diagnostic Practicals			
Supply of Literature (No.)			
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)			
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the			
technology week			

10 E. Recognition and Awards: Please give details about National and State level recognition and awards

PART XI - SOIL AND WATER TEST

:

:

11.1 Soil and Water Testing Laboratory

A. Status of establishment of Lab

1. Year of establishment

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost	Status
1	Spectrophotometer with accessories	1	1,81,260	Working
2	Flame photometer	1	53,238	Working
3	Analytical balance	1	28,625	Working
4	Nitrogen Analyzer (Kjeldahl digestion and distillation unit) with spare parts	1	1,79,879	Working
5	Shaker	1	45,800	Working
6	Refrigerator	1	40,200	Working
7	Oven	1	60,456	Working
8	Hot plate	1	18,893	Working
9	Digestion fume chamber	1	99,501	Working
10	Atomic Absorption Spectrophotometer	1	10,00,000	Working
11	Centrifuge	1	58,404	Working
Total		11	17,66,256	

B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	13,799	11,183	2,523	21,29,430
Water Samples	7,514	6,377	1,742	6,46,850
Plant samples	278	54	29	4,3300
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	21,591	17,614	4,294	28,19,580

C. Details of samples analyzed during 2021:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	716	569	452	1,56,100
Water Samples	493	428	406	1,06,300
Plant samples	2	2	2	800
Manure samples	0	0	0	0
Others (specify)	0	0	0	0
Total	1,211	999	459	2,63,200

11.2 Mobile Soil Testing Kit

				0		
A.	Date	of	purchase	and	current	status

Mobile Kits	Date of purchase	Current status
1.Mini Soil Testing Lab	01.03.2017	Not working
2.		

B. Details of soil samples analyzed during 2021 and since establishment with Mobile Soil Testing Kit:

	During 2020	During 2021	Cumulative progress (Total)
Samples analyzed (No.)	0	0	306
Farmers benefited (No.)	0	0	257
Villages covered (No.)	0	0	63

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit:

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL	452	569	716	716	452
Mobile Soil	0	0	0	0	0
Testing Kit					

11.4 World Soil Health Day celebration

Sl.	Farmers	Soil health	VIPs (MP/	Other Public	Officials	Media coverage (No.)
No.	participated	cards issued	Minister/MLA	Representatives	participated (No.)	
	(No.)	(No.)	attended (No.)	participated		
1	45	30	-	1	2	0

PART XII. IMPACT

12.A. Impact of KVK activities (Not restricted for reporting period).

Name of specific	No. of	% of adoption	Change in in	come (Rs.)
technology/skill transferred	participants		Before	After
			(Rs./Unit)	(Rs./Unit)
ICM in Tomato	10	100	2.66 lakh/ha	4.01 Lakh/ha
Mushroom production	1	100	54,000	2,52,000
Banana Special (For Ellakki	45	66.7	2,64,825	3,67,812
banana)				
French bean as intercrop in	40	72.5	1,71,164	2,15,350
Arecanut				
AMC (For Tomato)	51	62.3	1,80,000	2,20,000
Neem Soap (Mango crop)	46	64	52,450	89,270
Enhancement of Productivity of	450	85	20,500	42,500
Finger millet by drought tolerant				
variety ML 365				

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

12.B. Cases of large scale adoption (Please furnish detailed information for each case with suitable photographs)

Addressing Drought Vulnerability by Drought tolerant Ragi ML -365

Preamble : Ragi (*Eleusine coracona*) is also called as Finger millet. Ragi is the main staple food consumed by majority of the people in South Karnataka. Ragi is grown as rainfed as well as irrigated crop, mostly cultivated by poor and marginal farmers, as it is most nutritious among all cereals and grown as pure crop as well as intercrop with pulses. Ragi is rich in carbohydrates, calcium, fibre, protein and vitamins, contains slow releasing carbohydrates and provides continuous energy and is being promoted as food for diabetics. Ragi is grown in 1.8 million ha with average yield of 13 q / ha in India and 9.16 lakh ha with average yield of 16 q / ha in Karnataka. Ragi is grown in 1.87 lakh ha in Tumakuru district, with an average yield of 18 q / ha, which is comparatively low yield. The main reasons for low productivity are delayed on set of monsoon, low rain fall, erratic rain fall, dry spells, high temperature and non-availability and non-adoption of drought tolerant and high yielding variety.

Input :ICAR- Krishi Vigyan Kendra (IIHR) Tumakuru-had conducted front line demonstration of Ragi ML-365 variety in 25 ha covering 62 farmers at 5 taluks Viz., Tumkur, Sira, Koratagere, Madhugiri and Pavagada taluks of Tumakuru district as an alternative to the local GutteRagi. The villages selected are vulnerable to climatic variability like drought, dry spells and extreme temperature. The specific characteristics of the Ragi ML-365 variety are short duration (about 105 days), medium plant height, high grain and fodder yielding, resistant to leaf spot, neck blast disease and lodging, good cooking quality, suitable for dryland agriculture and late sowing.

Outcome: The average yield of Ragi ML365 (25.5 q/ha) is high compared to the local Gutte Ragi (18.7 q/ha). Ragi ML-365 grain yield per ha was 6.8 q higher over local Gutte Ragi. Ragi ML-365 gave higher net income (Rs. 48000/-) compared to local Gutte Ragi (Rs. 32000/-) per ha and generated additional income of Rs.16000/- per ha as shown in Table. The results showed an increase of 36.40% over the yield of local GutteRagi variety and additional income increased to 50% and also reduced the leaf spot and neck blast disease

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	105. 2	24.8	25.5	36.4	32750	63750	48072	1.95
Check	79.8	18.4	18.7		28450	46750	32302	1.64

Impact :The Ragi ML-365 variety performed superior to the existing Local Gutte Ragi at Durgada Nagenahalli due to resistance to drought and blast. It was also performed well when adopted during delayed monsoon. The variety was up scaled in Tumakuru District through Department of Agriculture, Tumakuru. Ragi ML-365 was cultivated in 3,200 ha in Tumakuru District during 2020-21. Additional production of 22,800 q gave net income Rs. 4.42 crore and benefitted about 8,200 farmers.



Ragi – ML 365



Gutte Ragi local

12.C. Details of impact analysis of KVK activities carried out during the reporting period

- About 350 farmers were involved in FLDs in the last five years, covering an area of about 150 ha (On an average 0.4 ha per farmer).
- The total net profit that these farmers obtained by following the KVK's FLDs in the above mentioned technologies is Rs.40.01 lakhs. Whereas the total net profit in the check is Rs.26.89 lakhs. The increase in net profit in demo plots is 49% more than the check plots.
- If we calculate the net profit on per ha basis, it is Rs. 31,905 in demo plots, more than Rs.10,000 compared to check plots (Rs.21,446)
- Infestation of Fruit flies in Mango was a major problem in mango growing area and proper fruit fly control technology measures were not followed because of the lease giving practices among the farmers. The awareness was created and use of fruit flies traps was demonstrated (IIHR technology) at the appropriate time and for effective control of fruit flies at critical stage. Nearly 2650 farmers adopted the technology and farmers realized that it is a low cost technology which is effective to control fruit flies in mango.
- Farmers have realized the importance of AMC technology (Vegetables). This low cost technology has enhanced the income by reducing the cost of production with quality and higher productivity.
- The technologies demonstrated in about six FLDs have reached more than 500 ha within the district, as per the feedback form line department staff, as mentioned in the graph below.



PART XIII - LINKAGES

13A. Functional linkage with different organizations

Name of organization	Nature of linkage
ICAR-CRIDA, Hyderabad	Technology demonstration Component of NICRA and
	Conservation Agriculture projects
ICAR-National Institute of Veterinary Epidemiology and	Awareness Programme on Zoonotic Diseases on the occasion
Disease Informatics (NIVEDI), Bengaluru	of World Zoonoses Day-2021 (7th July 2021)
	Livestock Production Technologies, Agriculture and allied
	Activities under NADSC(SCSP) Programme
Department of Women and Child Development	Hands on Trainings paper bag making and grafting (21 &
	22nd Dec, 2021)
AVISHKAR NGO, Tumakuru	Various Training Programmes and demonstrations were
	conducted in the fields of farmers belong to Watershed project
	and FPOs
DHAN Foundation NGO	Trainings, Walkathon, Bhoosamruddi scheme programmes
National Bee Board	Setting up of honey and other beehive products testing
	laboratory at KVK campus
Samashti Foundation, Bengaluru	PRA Analysis was carried out at Hunsawadi village,
	Madhugiri Taluk (29.12.2021)
Directorate of Oilseeds Development, Hyderabad	NMOOP project – Groundnut and Castor
Directorate of Pulses Development, Bhopal	NFSM project- Red gram
SKRDP, Tumakuru district	Capacity Development for women SHGs
ORDER NGO, Tumakuru	FPO support
State Department of Agriculture	Trainings, FLDs, Joint Diagnostic Survey, Krishi Abhiyana
	Programme, ATMA programme, Demonstration, DATC
	Training, Exhibition, Organic and Millet Melas, Krishi Melas,
	Farmers Days and Advisories.
State Department of Horticulture	Trainings, FLDs, Joint Diagnostic Survey, Terrace Gardening,
	Exhibition, Advisories, Comprehensive Horticultural
	Development programme etc.
ICAR-NBAIR, Bengaluru	Trainings and for Technology Backstopping
NABARD, Tumakuru	Supporting various FPOs
IIHR Bengaluru	Training programme and Distribution of improved varieties of
	quality fruit samplings under SCSP scheme

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution

13B. List of special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Technology demonstration component of NICRA	January 2011- April - 2021	ICAR-CRIDA, Hyderabad	2066000
National Food Security Mission (NFSM)	April 2021	DOP Kanpur	
National Mission on Oil Seed and Oil Palm (NMOOP)	April 2021	DOOR Hyderabad	
Establishment of Honey test laboratory	April 2021	National Bee Board New Delhi	9949000

13C. Details of linkage with ATMA

Coordination activities between KVK and ATMA

	Programme		No. of programmes	No of programmes	Other remarks (if
S. No.		Particulars	attended by KVK staff	Organized by KVK	any)

01	Meetings		
02	Research projects		
	1 0		
03	Training		
03	programmes		
04	Demonstrations		
05	Extension		
0.5	Programmes		
	Kisan Mela		
	Technology Week		
	Exposure visit		
	Exhibition		
	Soil health camps		
	Animal Health		
	Campaigns		
	Others (Pl.		
	specify)		
06	Publications		
	Video Films		
	Books		
	Extension		
	Literature		
	Pamphlets		
	Others (Pl.		
	specify)		
07	Other Activities		
07	(Pl.specify)		
	Watershed		
	approach	 	
	Integrated Farm		
	Development		
	Agri-preneurs		
	development	 	

13D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

13E. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

13F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

13G. Kisan Mobile Advisory Services

Month	No of	Message			SMS/vo	ice calls sent (N	No.)		Total	Farmers
	Advisories	type (Text/Voice)	Сгор	Livestock	Weather	Marketing	Awareness	Other enterprises	SMS/Voice calls sent (No.)	benefitted (No.)
January	2	Text	2	0	0	0	0	0	2	1943
February	1	Text	0	0	0	1	0	0	1	1951
March	0	Text	0	0	0	0	0	0	0	0
April	1	Text	1	0	0	0	0	0	1	1945
May	0	Text	0	0	0	0	0	0	0	0
June	0	Text	0	0	0	0	0	0	0	0
July	6	Text	5	0	0	0	1		6	1945
August	4	Text	4	0	0	0	0	0	4	
September	1	Text	1	0	0	0	0	0	1	1945
October	0	Text	0	0	0	0	0	0	0	0
November	0	Text	0	0	0	0	0	0	0	
December	4	Text	3	0	0	0	1	0	4	1945
Total	19		16	0	0	1	2	0	19	11674

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

14A. Performance of demonstration units (other than instructional farm)

		Year of	Year of Area		Details of production			Amoun	
Sl. No.	Demo Unit	o Unit establishment		(ha) Variety		Qty.	Cost of inputs	Gross income	Remarks

14B. Performance of instructional farm (Crops) including seed production

Nama	Data of	Data of	(Details	of production		Amount (Rs.)		Domork
of the crop	sowing	harvest	Are (ha	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	S
Cereals									
Ragi	4/6/2021	4/10/2021	0. 4	ML-365	Seed	5.8	9667	29000	
Ragi	14/7/202 1	4/11/2021	0. 4	KMR-630	Seed	2	3333	10000	
Navane	15/11/20	5/3/2021	0. 2	DHFT-109- 3	Seed	1.25	2083	6250	
Korale	20/12/20	12/3/2021	0. 1	local	Seed	0.6	1200	3600	
Pulses									
011									
Oilseeds									
Fibers									
110015									
Spices & Planta	tion crops								1
Areca nut	-	-	0	Hirehalli Tall	Seedling s	3100 0	496000	155000 0	
					Sprouts	2800 0	84000	196000	
Floricultur e									
Fruits									
Mango	-	-	0	Alphanso, Mallika	Grafts	3574	1,25,09 0	250180	
Guava	-	-	0	AS, Pink flesh, L-49	Grafts	2812	98420	196840	
Lime	-	-	0	Balaji	Seedling s	2500	50000	175000	

Tamarind				PKM 1	Grafts	1200	42000	84000	
Tamarind Seedlings				Gottipura	Seedling s	1000	15000	40000	
Jamun				Dupdhal	Grafts	290	10150	20300	
Custard Apple				Balnagar	Grafts	368	12880	25760	
Others seedlings	-	-	0	Rose apple, Ramphal, Pomello, Cherry, Lakshman Phal etc.,	Seedling s	1465	29300	58600	
Vegetables									
Ragi	4/6/2021	4/10/2021	0. 4	ML-365	Seed	5.8	9667	29000	
Ragi	14/7/202 1	4/11/2021	0. 4	KMR-630	Seed	2	3333	10000	
Navane	15/11/20	5/3/2021	0. 2	DHFT-109- 3	Seed	1.25	2083	6250	
Korale	20/12/20	12/3/2021	0. 1	local	Seed	0.6	1200	3600	
Ragi	4/6/2021	4/10/2021	0. 4	ML-365	Seed	5.8	9667	29000	
Ragi	14/7/202 1	4/11/2021	0. 4	KMR-630	Seed	2	3333	10000	
Navane	15/11/20	5/3/2021	0. 2	DHFT-109- 3	Seed	1.25	2083	6250	
Korale	20/12/20	12/3/2021	0. 1	local	Seed	0.6	1200	3600	
Ragi	4/6/2021	4/10/2021	0. 4	ML-365	Seed	5.8	9667	29000	
Ragi	14/7/202 1	4/11/2021	0. 4	KMR-630	Seed	2	3333	10000	
Others (specify	/)			1					
Medicinal Crops									
Mucuna	4/6/2020	4/2/2021	0. 4	Arka Dhanwantar i	Seed	6.3	25200	75600	
Mucuna	12/6/202 0	5/2/2021	0. 4	Arka Subra	Seed	10.2	40800	12240 0	
Fodder crops									
Fodder sorghum	7/6/2021	17/10/202 1	0. 1	Co(FS)-29	Seed	0.14	1867	5600	
Fodder sorghum	20/6/202 1	24/11/202 1	0. 1	Co(FS)-31	Seed	0.38	5067	15200	

14C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl.	Name of the		Amou	Derrorle		
No.	Product	Qty	Cost of inputs	Gross income	Remarks	

14D. Performance of instructional farm (livestock and fisheries production)

Name	Deta	ils of production		Amour			
Sl. No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks

14E. Utilization of hostel facilities

Accommodation available (No. of beds) 20

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)		
January	8	1	any)		
Fahmanna -	8	1	NIL		
February	0	0	NIL		
March	0	0	NIL		
April	0	0	NIL		
May	0	0	NIL		
June	0	0	NIL		
July	3	1	NIL		
August	18	1	NIL		
September	0	0	NIL		
October	19	1	NIL		
November	1	1	NIL		
December	0	0	NIL		

14F. Database management

S.No	Database target	Database created

14G. Details on Rain Water Harvesting Structure and micro-irrigation system

(c) Rain Water Harvesting Structure

Amount	Expenditure	e Details of infrastructure created / micro irrigation system etc.		Quantity	Area				
sanction (Rs.)	(Rs.)		No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)	of water harvested in '000 litres	irrigated / utilization pattern

(d) Micro-irrigation systems

Amount	Expenditure	e Details of infrastructure created / micro irrigation system etc.		Quantity	Area				
(Rs.)	(Ks.)		No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)	of water harvested in '000 litres	irrigated / utilization pattern

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY)

G1	1 	.	11.0					.	<u> </u>	x 71 1 1	- ·	
SI	Name	Initial	Initial soil fertility status		Facilities	Name of	Variety	Organic	Yield	Economics		
No.	of	(Avera	(Average of cluster village)		created	Crops		inputs	(q/ha)			
	cluster	Aval.	Aval.	Aval.	OC	for	cultivated		applied		Cost of	Net
	village	Ν	Р	Κ	%	organic			including		cultivation	returns
						source			bio-		(Rs/ha)	(Rs/ha)
						of			agents			
						manure			and			
									botanicals			
									treatment			
1	1.											
	2.											
2	1.											
	2.											

15.2 District Agriculture Meteorological Unit (DAMU)

	Agro advisories			Farmers awareness programmes			
Sl No.	No of Agro advisories generated	No of farmers registered for agro advisories	No of farmers benefitted	No of programmes	No of farmers benefitted		
1							
2							

15.3 Fertilizer awareness programme organised

State	Name of KVK	Details of Activities/programme Organised	Number of Chief Guests	No. of Farmers attended program	Total participants
Karnataka	ICAR- KVK, Hirehalli	Balanced use of fertilizers	1	98	99

15.4 Seed Hub

Crops	Variety	Year of			Production	No of farmers	Quantity	
		release	Target	Area	Actual Production	Category	benefited/Sold to	seed sold
			(q)	(ha.)	(q)	(FS/CS)	no. of farmers	(q)

15.5 CFLD on Oilseeds:

Sl.No.	Crop	Varieties	Allocated		Implemented		
		demonstrated	Area (ha)	Demos (No.)	Area (ha)	Demos (No.)	
		and check					
01.	Groundnut	K-6 and TMV-	26	65	26	65	
		2					
02.	Castor	ICH-66	20	50	20	50	

Total 46 115 46 115					
101011 10	Total	46	115	46	115
	Total	40	115	40	115

15.6 CFLDs on Pulses:

Sl.No.	Crop	Varieties	Allocated		Implemented	
		demonstrated	Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
		and check				
01	Red gram	BRG-5, check-	22	55	22	55
		BRG-1				
	Total		22	55	22	55

15.7 Krishi Kalyan Abhiyan (Aspirational districts)

Type of Activity	Date(s)	No. of	farmers (G	eneral)	No. of farmers SC / ST			No.of extension personnel			
Type of Activity	conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total	

15.8 Micro-Irrigation

Type of Activity	Date(s)	No. of	farmers (Ge	eneral)	No. of farmers SC / ST			No. of extension personnel		
Type of Activity	conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total

15.9 Tribal Sub-Plan (TSP)

Farm	er	Wom	en	Rura	ıl	Extens	sion	OFT	N	umbe	r of	Part	Pro	Pro	Pro	Pro	Tes
Traini	ing	Farm	er	Yout	hs	Person	nel	(No		farme	rs	icip	duc	duc	duc	duc	tin
	-	Traini	ing					of	i	nvolv	ed	ants	tion	tion	tion	tion	g
No.	Ν	No.	Ν	No.	Ν	No.	Ν	Tech	0	Fr	Μ	in	of	of	of	of	of
of	0.	of	0.	of	0.	of	0.	nolo	n	ont	ob	exte	see	Pla	Liv	fin	Soi
Traini	of	Traini	of	Traini	of	Traini	of	giess	-	lin	ile	nsio	d	ntin	est	gerl	1,
ngs/D	Fa	ngs/D	W	ngs/D	Y	ngs/D	Е)	f	e	ag	n	(q)	g	ock	ing	wat
emos	rm	emos	0	emos	ou	emos	xt		a	de	ro-	acti		mat	stra	s	er,
	ers		m		th				r	mo	ad	viti		eria	ins	(Nu	pla
			en		s		Pe		m	S	vis	es		1	(Nu	mb	nt,
			Fa				rs		tr		or	(No		(Nu	mb	er	ma
			rm				on		ia		У	.)		mb	er	in	nur
			ers						ls		to			er	in	lak	es
											far			in	lak	h)	sa
											me			lak	h)		mp
											rs			h)			les
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																	ber
)

84

15.10 SCSP

Farm	er	Wom	en	Rura	ıl	Extens	sion	OFT	N	umbe	r of	Part	Pro	Pro	Pro	Pro	Tes
Traini	ing	Farm	er	Yout	hs	Person	nel	(No		farme	rs	icip	duc	duc	duc	duc	tin
		Traini	ing					of	i	nvolv	ed	ants	tion	tion	tion	tion	g
No.	Ν	No.	Ν	No.	Ν	No.	Ν	Tech	0	Fr	Μ	in	of	of	of	of	of
of	о.	of	о.	of	о.	of	0.	nolo	n	ont	ob	exte	see	Pla	Liv	fin	Soi
Traini	of	Traini	of	Traini	of	Traini	of	giess	-	lin	ile	nsio	d	ntin	est	gerl	1,
ngs/D	Fa	ngs/D	W	ngs/D	Y	ngs/D	Е)	f	e	ag	n	(q)	g	ock	ing	wat
emos	rm	emos	0	emos	ou	emos	xt		a	de	ro-	acti		mat	stra	s	er,
	ers		m		th				r	mo	ad	viti		eria	ins	(Nu	pla
			en		S		Pe		m	s	vis	es		1	(Nu	mb	nt,
			Fa				rs		tr		or	(No		(Nu	mb	er	ma
			rm				on		ia		у	.)		mb	er	in	nur
			ers						ls		to			er	in	lak	es
											far			in	lak	h)	sa
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)
1	33	1	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0

15.11 NARI

	Achie	vement
Activity	Number of activity	No. of farmers/ beneficiaries
OFTs – Nutritional Garden (activity in no. of Unit)		
OFTs – Bio-fortified Crops (activity in no. of Unit)		
OFTs – Value addition (activity in no. of Unit/Enterprise)		
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
FLDs – Nutritional Garden (activity in no. of Unit)	30	30
FLDs – Bio-fortified Crops (activity in no. of Unit)		
FLDs – Value addition (activity in no. of Unit/Enterprise)	20	20
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
Trainings	2	45
Extension Activities	8	130

15.12 KVK Portal

No.	No. of	F	illed Repo	ort on Pac	kage of	Filled Profile Report (Y/N)							
of	Facilit		Prac	tices (Y/N)								
Even ts adde d by	ies added by KVKs	Cro p	Livesto ck	Fisher ies	Horticult ure	Employ ees	Pos ts	Finan ce	Soil Heal th	Applian ces	Cro ps	Resour ces	Fis h

KV Ks									Car ds				
172	19	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y

15.13 KSHAMTA

Number of Adopted	No. of Activities	8	No. of farmers benefited			
Villages	Demo	Training	Demo	Training		

15.14 DFI

S 1	District	Taluks	Villages	Farme rs (No.)	Average Benchm ark Income (Rs/year)	Crops/ enterprises	KVK Intervention S	Additiona l Net Income generated due to KVK interventi ons (Rs/year)	Total incom e of farmer (Rs/ye ar)
1	Tumak uru	Sira Koratage re Madugir i Tumakur u		7 4 5 1	2,30,392	Ragi, Foxtail millet, Redgram,Groundnut,chilli,Dolich os,Brinjol, Tomato, Frenchbean, Pomogranate,Papaya, Mushroom, Crysanthemum, China aster, Kakada, Arecanut, coconut, Nutri Garden and value addition	1.Demonstra tion on white Ragi KMR -340 variety for value addition. 2.Demonstra tion on DHFt 109-3 Foxtail millet variety for value addition. 3.Demonstra tion on brown top millet for value addition. 4,Demonstra tion on backguard nutri garden. 5.EDP on Ragi value addition. 6.EDP on Jackfruit value addition. 7.EDP on Tamarind value addition. 8.processing and value addition	1,77,581	4,66,4 48

2	Tumak uru	Koratage re, Tumakur u	D.Nagenahalli, Chikkadoddav adi, Tanganahalli, Vaddarahalli, Baichenahalli, Chikkahalli, Neelagondanah allli, Urdigere, Hirehalli	22	2,10,356	Finger millet, Maize, Arecanut, Coconut, China Aster, HFcow,Fodder maize, Chrysanthemum, Kakada, Tomato, Goat, Paddy, Tamarind	Finger millet ML-365, ICM in Areca nut and Coconut, management of Fallarmy worm, intercroppin g in Coconut, French bean Arka Suvidha, use of vegetable special, multi cut CoFS29, Check dam desilting and borewell recharge, use of AMC biofertilier.	1,81,358	5,50,9 84
			D	25	0.57.750		sericulture,f arm pond, Aerobic paddy, Paustic 9, Mineral mixture, Pigeon pea BRG-4, Pruning in jasmine, French bean intercroppin g	2 20 927	4.00 5
3	Tumak uru	Madhugi ri	Rangapura Badavanahalli	25	2,57,753	Ragi, Maize, Redgram,Millets Groundnut Tomato, Brinjal, Chilli, Kakada, Mango, Banana, Arecanut, Dairy, Sheep rearing	Frontline Demonstrati ons, Trainings	2,30,835	4,88,5 88

PART XVI - FARMERS FEEDBACK ON ASSESSED/DEMONSTRATED TECHNOLOGIES OF CROPS / LIVESTOCK

16.1	Farmers	feedback	on performance	of crop	varieties/hybrids
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Sl. No.	Crop varieties/hybrids assessed/	Farmer's feedback
	demonstrated	
01.	Arka Abedh	High disease resistant and heavy yielder performed vey
		well
02	DHFt 109-3	Yield of DHFt109-3 variety (15.20 q/ha) was 20.63 %
		more compared to local (12.60 q/ha). B:C ratio was
		more for value added products(2.24) compared to
		selling as such (1.48). Farmer's feedback was that there
		was a reduction in yield due to damage caused by heavy
		rainfall.
03	Aerobic Paddy Paustic-9	The new variety required 40% less water compared to
		flooding. The farmers harvested an average grain yield
		of 31.3 q/ha with a yield advantage of 27.4 % over the
		existing variety.
04	Finger millet KMR-630	The new variety is tolerant to Finger millet blast. Can
		be harvested 20 days early compared to local Finger
		millet. The farmers harvested an average grain yield of
		21.7 q/ha with a yield advantage of 24.7 % over the
		existing variety. Drastic reduction in yield due to
		damage caused by heavy rainfall.
05	Chilli – Arka Gagan and Arka Tanvi	Arka Gagan and Arka Tanvi hybrids yielded more,
		pungency is high in Arka Gagan as compared to Demon
06	Chilli – Arka Harita	Arka Harita hybrid gives high yield and pungency, Less
		leaf curl incidence and fetches good price in the market
		compared to local.
07	Tuberose – Arka Prajwal	Early flowering (65 days), Medium sized with light
		pinkish and more numbers of florets per plant, suited
		for loose flowers & garland. Medium shelf life (3 days)

16.2 Farmers feedback on performance of agronomic practices

Sl. No.	Agronomic practices	Farmer's feedback

1.	Aerobic Paddy Paustic-9	Drastic	c redu	ctio	n of	damag	ge caused h	oy ro	dents
		attack	(due	to	dry	field	condition	and	free
		moven	nent of	f cat	s).				

16.3 Farmers feedback on performance of pest and disease management in crops

Sl. No.	Pest and disease management in crops	Farmer's feedback
01.	Management of Rugose white fly in	Effective technology from NBAIR, Bangalore. But
	Coconut	it needs to be implemented all the farmers of the
		cluster.
02.	Management of Coconut Ganoderma	CPCRI technology needs to refined exclusively for
	blight	Sothern Karnataka region
03	Use of bio formulations for improving	Application of AMC + ACT and drenching with
	productivity, quality and management of	Aspiriligus niger + Pseudomonas + VAM were
	diseases in Pomegranate	reduced the disease incidence and improved the
		fruit quality. Application of Arka action plus and
		AMC has been recorded blight incidence by 14.2%
		and wilt incidence by 1.3%

16.4 Farmers feedback on performance of farm machinery technologies

Sl. No.	Farm machinery technologies	Farmer's feedback

16.5 Farmers feedback on performance of livestock and fisheries technologies

Sl. No.	Livestock/fisheries technologies	Farmer's feedback

PART XVII - FINANCIAL PERFORMANCE

17A. Details of KVK Bank accounts

Bank account	Name of the	Location	Branch	Account	Account	MICR	IFSC
	bank		code	Name	Number	Number	Number
With Host	State Bank of	Hessaraghatta	041187	The	37578009241		SBIN0041187
Institute	India			Director,			
				IIHR,			
				Bengaluru			
With KVK							

17B. Utilization of KVK funds during the year 2020-21 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Rec	curring Contingencies	1		
1	Pay & Allowances	1,46,90,000	1,31,44,778	1,43,37,014
2	Traveling allowances			72,996
3	Contingencies			
Α	Stationery, telephone, postage and other expenditure on			
	office running, publication of Newsletter and library			
	maintenance (Purchase of News Paper & Magazines)			6,75,000
В	POL, repair of vehicles, tractor and equipments			2,30,000
С	Meals/refreshment for trainees (ceiling upto			
	Rs.40/day/trainee be maintained)			61,000
D	Training material (posters, charts, demonstration material			
	including chemicals etc. required for conducting the			
	training)			11,624
E	Frontline demonstration except oilseeds and pulses			
	(minimum of 30 demonstration in a year)			2,75,000
F	On farm testing (on need based, location specific and newly			
	generated information in the major production systems of			
	the area)			20,000
G	Training of extension functionaries			9,000
Н	Maintenance of buildings			25,000
	EDP			30,000
	Soil Water Testing			25,000
Ι	Establishment of Soil, Plant & Water Testing Laboratory			27,000
J	Library			5000
	TOTAL (A)			
B. Nor	n-Recurring Contingencies			
1	Works			
2	Equipment including SWTL & Furniture	2,43,000	2,43,000	2,42,442
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTA	L (B)			
C. RE	VOLVING FUND			
GRAN	ND TOTAL (A+B+C)	1,64,24,000	1,40,36,990	1,60,46,076

17C. Status of revolving fund (Rs. in lakh) for the last three years

Year	Opening balance as on 1 st January	Income during the year	Expenditure during the year	Net balance in hand as on 31 st December of each year
April 2019 to March 2020	63,07,518	79,05,495	1,07,65,845	34,47,168

April 2020 to January 2021	34,47,168	81,13,248	1,07,17,862	8,42,554
January to December 2021	8,42,554	1,01,01,496	86,69,168	22,74,879

18. Details of HRD activities attended by KVK staff

Staff Name	Designation	Discipline	Training Title	Institute where attended	Dates
Shri. K.N. Jagadish	Subject Matter Specialist	Agril. Extension	Capacity Development Programme on Virtual Farmers Field School (Online Mode)	ICAR-ATARI Zone XI, UAHS, Shivamogga	14.06.2021
Shri. K.N.Jagadish	Subject Matter Specialist	Agril. Extension	OnlineTrainingProgramme on EnhancingResiliencethroughEntrepreneurship(OnlineMode)	ICAR-NAARM, Hyderabad	6-10 Dec 2021
Shri. K.N.Jagadish	Subject Matter Specialist	Agril. Extension	Training Module in Sericulture for Krishi Vigyan Kendra (KVKs)	CSR&TI, Mysuru, (Central Silk Board) Karnataka	13-17 Sept.2021
Dr.B.Hanuma nthegowda	Subject Matter Specialist	Plant Protection	Training Module in Sericulture for Krishi Vigyan Kendra (KVKs)	CSR&TI, Mysuru, (Central Silk Board) Karnataka	13-17 Sept.20212 021
Shri. J. M. Prashanth	Subject Matter Specialist	Horticulture	Online training on Plant Health Management and Amidest Covid Challenges and Strategies	ICAR-CPCRI Kasargod	1-3 Dec.2021
Shri. J. M. Prashanth	Subject Matter Specialist	Horticulture	Online training on IIHR Technologies	ICAR-IIHR, Bengaluru	17-18 Dec. 2021
Ms. Radha R. Banakar	Subject Matter Specialist	Home Science	Online mushroom training course on Road map for KVKS to enhance mushroom production and consumption	ICAR-IIHR, Bengaluru	9-11 August 2021
Dr. Soma Shekhar	Subject Matter Specialist	Plant Breeding	National Online Training on Horticulture Genetic Resources Conservation and Utilization	ICAR-IIHR, Bengaluru	22-26 Nov.2021
Shri. N. Jayasankar	Assistant Chief Technical Officer (Computer- Lab.)	Computer Science	Online Training programme on Advances in Web and Mobile Application Development	ICAR-NAARM Hyderabad	6-10 Dec.2021

19. Please include any other important and relevant information which has not been reflected above (write in detail).

• KVK in collaboration with ICAR-Indian Institute of Horticultural Research, Bengaluru, organized Honeybee Rearing & Training Programme at Thippenahalli Madugiri Taluk Tumakuru District under Tribal sub plan project on 02.12.2021.

- ICAR-Indian Institute of Horticultural Research, Bengaluru and KVK Hirehalli organized planting material distribution to farmers under SCSP programme at Pavagada in collaboration with Madakari FPO on 05.06.2021.
- ICAR-Indian Institute of Horticultural Research, Bengaluru and KVK Hirehalli organized coconut planting material distribution to farmers under SCSP programme at Aladamarapalya, Tumakuru

in collaboration with Gramachetana FPO on 05.06.2021.

- For Kasturi Rangappa Naika, DHAN, Nidagal and Madakari FPO's, handholding support was provided in running their business activities, apart from technical support. Farmers were covered under NFSM and NMOOP project by involving them for utilizing the improved varieties of Red gram (BRG-5) and Groundnut (K-6). Technological inputs of KVK like AMC and Micronutrient specials were provided for their FPO on discounted rate.
- KVK Supported Hebbur Horticulture FPO, Horticulture FPO, Pavagada on crop management related activities, Marketing support to sell their products.
- KVK is instrumental in provision of machineries to FPOs: Swavalambi utpadakara samsthe, Madakari Souharda Co-operative Limited, Suvarnamukhi Souharda Co-operative Limited, Gramachetana.



Distribution of Planting Materials under SCSP Project at Pavagada



Distribution of coconut Planting Materials under SCSP Project at Aladamarapalya



Tamarind lollipop Machinery to Suvarnamukhi Souharda Co-operative Badavanahalli



Supporting with Ragi harvesting machine, Swavalambi FPO, Sira