KRISHI VIGYAN KENDRA TUMAKURU-I

ANNUAL REPORT- 2023

(FOR THE PERIOD FROM 01 January, 2023 TO 31 December, 2023)

UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE
ICAR-KRISHI VIGYAN KENDRA, TUMAKURU
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PART I – GENERALINFORMATION 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		
KVK, Konehalli,Tiptur ,Tumakuru	-	--	kvktumkur@gmail.com, kvk.Tumakuru1@icar.gov.in	-

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Agricultural Sciences, GKVK Bangalore	080-23332442 09449866900	080-23332442	vc@uasbangalore.edu.in	www.uasbangalore.edu.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Govinda Gowda V.	--	9449866936	kvktumkur@gmail.com, vgovindagowda@gmail.com

1.4. Year of sanction: 2004

1.5. Staff position as on 31 December 2023

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. Govinda Gowda V.	Senior Scientist& Head	M	Agril. Extn.	M.Sc (Agri.), Ph.D.	144200-218200	1,62,300	15.12.2021	Permanent	OBC
2	Scientist/SMS	Dr. Shivappa Nayaka H B	Scientist	M	Animal Science	M.V.Sc., Ph.D (Poultry Science)	57,700-1,82,400	92,000	24-10-2013	Permanent	ST
3	Scientist/SMS	Mr. Manoj H	Scientist	M	Plant Protection	M.Sc (Agri.)	57,700-1,82,400	59,400	14-07-2022	Permanent	SC
3	Scientist/SMS	Dr. Tasmiya kowsar	Scientist	F	Agronomy	M.Sc. (Agri.) Ph.D.	57,700-1,82,400	59,400	01-08-2022	Permanent	Others
4	Scientist/SMS	Mr. Darshan M E	Scientist	M	Agril. Extn	M.Sc (Agri. Extn.),	-	40,000	26-10-2021	Temporary	OBC

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)
5	Scientist/SMS	Dr. Nityashree K	Scientist	F	Home Science	M.Sc. (Agri.), Ph.D.	-	45,000	17-11-2022	Temporary	OBC
6	Scientist/SMS	Dr. Keerthi Shankar K	Scientist	M	Horticulture	M.Sc. (Hort.), Ph.D. (Horticulture)	-	45,000	18.04.2023	Temporary	OBC
7	Scientist/SMS	Vacant	Scientist	-	Soil Science	-	-	-	-	-	-
8	Programme Assistant (Lab Tech.)	Vacant	Programme Assistant (Lab Tech.)	-	-	-	-	-	-	-	-
9	Programme Assistant (Computer)	Mr. Pradeep Kumar. H	Programme Assistant (Computer/ STO)	M	-	BE (CSE), MCA	56100-177500	57,800	22-01-2011	Permanent	SC
10	Programme Assistant/ Farm Manager	Dr. Sathish H.S.	Farm Manager	M	-	M.Sc (Agri. Extn.), Ph.D.	35400-112400	45,000	15-07-2022	Permanent	Others
11	Assistant	Mr. Santhosh Kumar M.P.	-	M	-	M Com	-	26,400	01-06-2018	Temporary	Others
12	Jr. Stenographer	Ms. Shama Naz	-	F	-	B.Sc. (Agri. Biotechnology)	-	24,008	25-08-2020	Temporary	Others
13	Driver - 1	Mr. B. Mallikarjunaiah	-	M	-	SSLC	27650-52650	39,800	18-02-2010	Permanent	Others
14	Driver - 2	Mr. Harish B N	-	M	-	PUC	-	19,140	09-06-2017	Temporary	Others
15	SS-1	Mr. L. Manjaiah	-	M	-	SSLC	18600-32600	25800	20-10-2008	Permanent	SC
16	SS-2	Mr. Rudresha	-	M	-	PUC	-	15,840	03-03-2018	Temporary	Others
17	-	Mr. Sanjay	Field investigator	M	-	PUC		12,000	04-02-2019	Temporary	Others

1.6. Total land with KVK (in ha): 23 ha

S. No.	Particulars	Area (ha)
1	Under Buildings	03
2.	Under Demonstration Units	
3.	Under Crops	20
4.	Orchard/Agro-forestry	
5.	Others	

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR UAS	22.02.2012	-	55,00,000 25,00,000	-	-	-
2.	Farmers Hostel	ICAR	22.12.2012	550	53,00,000	-	-	-
3.	Staff Quarters	Nill						
4.	Demonstration Units					-	-	-
	Dairy unit	UAS	2009	-	-	-	-	-
	Sheep unit	UAS	2009	-	-	-	-	-
	Poly house	NHM	2011	-	-	-	-	-
	Green House	NHM	2011	-	-	-	-	-
	Vermi Compost Unit	NHM	2015	-	-	-	-	-
	Bio Digester	ICAR	2015	-	-	-	-	-
	IFS Demonstration unit	ICAR	2015	-	-	-	-	-
	Krishi Bhagya Model	GOK	2016	-	-	-	-	-
	Millet Processing unit	UAS	2019	-	-	-	-	-
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km's. Run	Present status
JeepMahindra BOLERO	2017	666162	1,93,426	Working
Tractor Massey Ferguson	2002	3,80,000	72,450	Working
BikeTVS Star City (ICAR, 79 / III)	2006	40,000	2,973	Working
Honda Activa (ICAR, 7 / IV)	2009	50,000	49,500	Working

C) Lab equipment & AV aids

Name of Equipments	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Photo Copier (Toshiba)	30-03-2009	1	77,954	Not working
Generator (10 KV)	01-04-2002	1	86,100	Not working
Over Head Projector (OHP)	28-05-2002	1	15,976	Good
Camera Pentax –SLR	31-07-2002	1	25,000	Not working
Public Address System	31-07-2002	1	21,500	Good
Kodak Ektalite Slide Projector with slide tray	05-04-2003	1	47,125	Not working
Philips TV 21 inches + VGuard Stabilizer	20-05-2003	1	12,513 + 882	Not working
Philips DVD Player 625 K	20-05-2003	1	8,276	Not working
LYNX Stevenson Screen Single	04-07-2003	1	6,000	Good
Nova easy carry display system (1 set)	06-01-2003	1	14,000	Good
Nova cardinal writing board (3' x 4')	05-04-2003	1	5,742	Good
HP Deskjet 3745 Printer	12-03-2005	1	3,400	Good
HP Scanjet 2400 Scanner	12-03-2005	1	4,400	Not working
Thoshiba Projector	14-06-2007	1	60,106	Good
Panasonic fax machine	21-01-2011	1	15200	Good
HP Lasejet 1020plus printer	28-02-2012	1	7,350	Good
Computer (Intel Pentium)	21-01-2013	1	14000	Good
CANON Laser printer	21-01-2013	1	5200	Good
Digital Sony camera MDSEW 320	21-01-2013	1	25000	Not working
Acer desktop computer	28-02-2013	1	32,150	Good
DSC coolpix S 6300 NIKON digital camera	07-03-2013	1	10,490	Not working
NIKON coolpix P530 camera	13-03-2013	1	19,991	Not working
Epson multifunction printer	Feb.2016	1	13,999	Good
Seagate external hard drive	Feb.2016	1	6,500	Good
Xerox machine	Mar.2016	1	99,000	Good
Kent water guard	Nov.2016	1	16,000	Not working
Digital electrical conductivity meter	11-03-2017	1	15,845	Good

UPS system	Jan.2017	1	81,994	Good
Trolley Speakers	March 2017	1	18,000	Good
Projector screen	Jan. 2017	1	5,500	Good
Computers	Feb.2017	1	80,971	Good
Interactive Board	Mar.2017	1	30,595	Good
CCTV camera	Mar.2017	10	59,513	Good
Mini Laptop	March 2017	1	14,028	Good
Tablet	March 2017	1	8,177	Good
Office Chairs	Feb.2017	10	59,991	Good
AC unit	March 2017	1	27,995	Good
Kiosk Tent	March 2017	1	10,000	Good
Neelkamal Chairs	March 2017	20	10,611	Good
Projector screen	Jan.2017	1	5,500	Good
FTTH connection	March 2019	1	12,000	Good
Epson L655 printer	02-11-2019	1	29568	Good
Dell incpim intel core	07-11-2019	1	50600	Good
4TB segate external hard disc	07-11-2019	1	11800	Good
Electronic balance	13-11-2019	1	46080	Good
Digital conductivity meter	18-12-2021	1	23600	Good
Dell laptop intercore	06-03-2022	1	49000	Good
Aluminium sliding window	13-12-2023	1	16042	Good
pH meter electrode system	21-12-2023	1	33276	Good

D) Farm equipment and implements

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Trolley Stand	05/04/2003	1	7,655	Good
Bee hive boxes (12 nos.)	06/01/2003	12	7,800	Good
Honda weed cutter	17/02/2009	1	30,000	Good
Chaff cutter machine	Feb.2016	1	25,300	Good
Hydrophonic unit	March 2017	1	70,000	Good
power sprayer	12/02/2021	1	20,000	Good
Chainsaw petrol engine	12/02/2021	1	19,500	Good
Rigid cultivator	12/02/2021	1	34,500	Good
7 HP power weeder	27/03/2021	1	99,000	Good
Weed cutter	04/02/2022	1	29,900	Good
11 disc harrow	04/02/2022	1	55,357	Good
3 HP chaff cutter	04/02/2022	1	33,839	Good
Earth auger	24/02/2022	1	25,422	Good
Hedge Trimmer	24/02/2022	1	21186	Good

Harvesting pole	24/02/2022	1	27000	Good
Milking machine	24/02/2022	1	40,000	Good
carbon fiber pole	24/02/2022	1	49,900	Good
Venture spray pole premium SVPL	30/07/2022	1	12,000	Good

1.8. Details of SAC meeting organized

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
03/02/2023	103	1. Conduct training programmes on scientific dairy farming and value addition of milk and milk products for farm women.	Conducted training programme and demonstration through FLD, OFT and EDP	--
		2. Conduct training programme on water management in horticulture crops.		
		3. Create awareness among farmers regarding Importance of soil health card.		
		4. Conduct training programmes on vermicompost preparation.		
		5. Conduct training programmes on processing and value addition of fruits for farm women.		
		6. Conduct Impact assessment of weather based agro advisories.		
		7. Conduct training programmes in collaboration with agriculture and other related developmental departments.		
		8. Continue to conduct training programmes for farmers on management of rugose white fly in coconut		
		9. Conduct awareness programme on farm mechanization in coconut.		
		10. continuation of OFT on assessment of bio formulation in pomegranate.		
		11. Conduct training programmes on bee keeping.		

PART II - DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Finger millet, Paddy, Ground nut, Redgram, Coconut, Vegetables, Arecanut, Dairying, Sericulture

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

S. No	Agro-climatic Zone	Characteristics
1	Central DryZone (Zone - 4) Madhugiri, Pavagada, Sira, Koratagere, and C.N. Halli taluks	Red sandy soil mixed with clay soil and patches of black soil Average rain fall 606.81 mm Source of irrigation are small tanks &borewells
2	Eastern DryZone (Zone -5) Tumakuru and Gubbi taluk	Red clay loam and clay lateritic soil Average rainfall 768.16 mm Source of irrigation are tanks, wells and borewells
3	Southern DryZone (Zone-6) Kunigal, Tiptur and Turuvekere taluk	Red sandy soil mixed with clay soil. Average rainfall 750.56 Source of irrigation are small tanks and borewells

S. No	Agro ecological situation	Characteristics
-	-	-

2.3 Soil type/s

Sl. No	Soil type	Characteristics	Area in ha
1	Red sandy loam	Soil contains 75-80% sand, silt 5-15% and clay 16-20%. Depth of the soil is shallow to medium. The clay fraction of red soils is rich in kaolinitic type of clay minerals, medium in fertility	6, 15,230
2	Shallow black soils	Depth of the soil is shallow, water holding capacity is poor, low fertility	2, 45,432
3	Red loamy soils	Red loams characterized by argillaceous soils with a cloddy structure and the presence of only a little concretionary material. Soils contain 31 – 34 % sand and 44 to 47% silt and 22 to 25 % clay, medium to high fertility. "N" is below 0.1 percent	2, 04,093

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

Sl. No	Crops	Area (ha)	Production (tons)	Productivity (q/ha)
1	Paddy	1607	11,946	29.88
2	Finger millet	115014	2,64,605	16.31
3	Minor millets	513	1,509	8.12
4	Red gram	7587	5,679	4.04
5	Horse gram	51,939	5,180	5.50
6	Black gram	308	193	3.20
7	Green gram	7883	1607	2.48
8	Cow pea	3102	991	3.10
9	Field bean	8,029	4,348	5.50
10	Groundnut	52725	69,599	8.08
11	Sesamum	171	63	9.38
12	Castor	486	1045	8.96
13	Coconut	224507	13,12,361 (Lakhs)	65 (No/palm)
14	Arecanut	87726.7	1,53,538 (Lakh tons)	23.82
15	Mango	16615.74	1,52,826 (MT)	8.22 ton
16	Banana	4069.86	2,20,289 (MT)	29.43 ton
17	Tomato	5986	2,45,364	53,000
18	Brinjal	354	11,371	121.2
19	Chilli	1093	26,246	29.30
20	Tamarind	2,556	15,159	60 ton
21	Pomegranate	3,360	29,944 (MT)	9.98 ton

(**Source:** Dept. of Agriculture, Tumakuru)

2.5. Weather data

Tumakuru district Rainfall data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January 2023	0.0	30.0	13.0	85.0
February 2023	0.0	29.0	17.0	65.0
March 2023	13.8	33.0	14.0	51.0
April 2023	36.9	34.0	19.0	54.0
May 2023	121.4	33.0	22.0	86.0
June 2023	61.9	33.0	22.0	91.0
July 2023	86.0	28.0	20.0	87.0
August 2023	23.0	29.0	20.0	91.0
September 2023	126.0	30.0	21.0	90.0
October 2023	26.0	28.0	20.0	74.0
November 2023	76.0	30.0	20.0	81.0
December 2023	3.0	27.0	21.0	89.0

*** Source:** DAMU, KVK, Konehalli

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

Category	Population	Production	Productivity
Cattle			
Crossbred	63704	54	5.5745
Indigenous	440888	56	2.0671
Buffalo	217528	68	2.5382
Sheep **meat 000 tons**			
Crossbred	9		--
Indigenous	884643	17.31	--
Goats	322373	16.60	--
Pigs	-	-	-
Crossbred	905	0.23	--
Indigenous	12411		--
Rabbits	560	NA	--
Poultry **Egg production in lakhs**			
Hens		--	--
Desi	6,42,382	273	--
Improved	-	71	--

Category	Population	Production	Productivity
Ducks	-	-	-
Turkey and others	-	-	-

Category	Area	Production	Productivity
Fish	-		
Marine	-		
Inland	1306 ha	16,000 metric ton	650-700 kg/ha
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

2.7 **District profile maintained in the KVK has been Updated for 2023**: 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	Tiptur	Nonavinakere	Byrapura Chikkabidare Gopalanapalya Gyaraghatta Gowdanakatte Kallegowdanapalya Kannaghatta Karadalu Hosuru Karikere Kibbanhalli Koppa Kunduru Mundunathapura Nagalehalli Nagaraghatta Nagathihalli Paragondanahalli Anagondanahalli Sattaramanahalli T L Palya Thimalapura vitalapura Tadasuru Patarehalli Chikkahonnavalli Aralikere	3 year	Millets Redgram Castor Ragi, Chilli, IFS Chilli Cattle Mushroom andAmla products and marketing	• Low soil fertility, poor nutrient management practices and low yield • Incidence of pod borer menace • Use of local and old varieties, yield decline due to pest semi looper Neck and finger blast, • Lack of knowledge on value addition • Low productivity • Low income to run family • Less profit and high incidence of Mastitis • Low Income generating activities for SHG's • Less awareness on Processing and value addition of agriculture and horticulture produce	Enhancing crop productivity through soil, pest and disease management. Improved animal husbandry practices Income generating activities for SHG's Processing and value addition of agriculture and horticulture produce
2	Turvekere	Dhabeghatta	M V Halli Devihalli Lakkasandra Kurubarahalli	3 year	Bengalgram Tomato Banana Arecanut	Inefficient use of paddy fallows Use of local and old varieties, improper control measures for pod borer	Introduction of high yielding varieties Nutrient and water management

						Low yield, Lack of HYVs, Improper nutrient management Less productivity, incidence of pest and diseases Improper plant protection measures for wilt including use of tolerant variety Severe nut splitting and yield loss due to deficiency of boron	
3	C.N. Halli	Shettikere	Godekere Bagganahalli Banadevarahatti Ranganahalli Ranganakere Somanahalli Kannaghatta Ranganakere Guruvapura Ganadalu Belavadi Mathighatta Madapura Mathighatta Madapura Mathighatta Sreyadanahalli Handanakere Kandikere Kodipalya Yelanadu Haralakatte Bandrehalli	3 year	Groundnut Millet crops Coconut Vegetable	Low soil fertility, high weed infestation and lower income Low yield potential of existing ruling varieties Lack of awareness on branding and labeling of millet products Severe incidence of Basal stem rot leading to death of palm Inefficient use of space, and lower income from mono cropping	Enhancing productivity through introduction of high yielding variety and pest management and other improved packages Processing and value addition of agriculture and horticulture produce
4	Gubbi	Nittur	Sagaranahalli Kodinadevanahalli Tyagaturu Bommanahalli Kodinagenahalli N Rampura Samudrakote Muganahunase	3 year	Coconut Arecanut Vegetable Flower crops Sheep farming Poultry Banana	Mono-cropping, no appropriate use of space and cropping in plantation crops Severe incidence of Red palm weevil and Black headed caterpillar leading to yield decline Inefficient use of space , low	Enhancing productivity Sustainable income generation through animal husbandry activities

			Paragondanahalli K D Halli Belavatta Cheluru Bommarasahalli			soil fertility, heavy weed growth Infestation of fluke worm (Fasciola hepatica), loss of body condition, jowl oedema, pipe stem liver, loss of carcass quality Loss of body condition, improper weight gain, decreased egg production, increase in number of culls, clubbed foot	
5	Kunigal	Hippadi	K.S. Agrahara Doddamadure Varevanagodanadaddi Doddakoppalu Senaba Amruthuru	3 years	Coconut Vegetable Paddy Finger millet	Low soil fertility, high weed infestation and lower income Low yield potential of existing crop varieties Severe incidence of Basal stem rot leading to death of palm Inefficient use of space, and lower income from mono cropping	Enhancing productivity through introduction of Integrated cop management approach

2.9 Priority thrust areas

S. No	Thrust areas
1	Integrated water management with special emphasis on micro - irrigation
2	Integrated Nutrient Management in Agri. and Horticultural crops
3	Introduction of newer varieties
4	Integrated Pest and Disease Management
5	Integrated farming system with special emphasis to livestock
6	Value addition & market linkage through CBA's / FPO's

PART III - TECHNICAL ACHIEVEMENTS

3.A. Target and Achievements of mandatory activities

OFT				FLD			
1				2			
OFTs (No.)		Farmers (No.)		FLDs (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
4	4	23	23	FLD – 21	FLD – 20	FLD - 202	FLD - 187
				EDP- 2	EDP- 2	EDP- 4 SHG	EDP- 4 SHG
				Nutri garden-1	Nutri garden-1	30 family	30 family

Training (Farmers/farm women)				Training (Rural youth)			
3				4			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
70	79	2940	3271	4	5	124	219

Training (Extension personnel)				Training (sponsored)			
5				6			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
5	5	140	195	10	11	720	742

Training (Vocational)				Extension Programmes			
7				8			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
1	15	1	15	8392	18500	20230	31960

Seed Production (Q)		Planting material (Nos.)	
9		10	
Target	Achievement	Target	Achievement
5	-	3850	6806

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
11		12	
Target	Achievement	Target	Achievement
3150 liters	4431 liters	Vermi compost - 200	Vermi compost - 274
cow -1	cow -2		
sheep -2	sheep -4		

Soil, water, plant and manure analysis (including mobile kits)				Mobile agro advisories provided			
13				14			
Samples (No.)		Farmers (No.)		Messages including text, voice (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
495	1005	520	898	295	432	30000	32600

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
1	Varietal Evaluation	Foxtail millet	Low yield, Less resistant to drought	Assessment of foxtail millet varieties for higher yield	-	2	-	-	1	-	-	-	No.	Kg
2	Integrated Disease management	Coconut	Low yield, Incidence of Diseases	Assessment of Ganoderma disease management in coconut	-	3	-	-	3	-	-	-	-	-
3	Varietal Evaluation	Pomegranate	Low yield, incidence of Pest and Diseases Imbalanced nutrient management	Assessment of bio formulations for improving quality and management of diseases in pomegranate	-	1	1	1	1	-	-	-	Aspergillus niger Trichoderma VAM Pseudomonas Arka Actino Bacterial consortia	70 70 88 70 175
4	Entrepreneurship Development	coconut	Less entrepreneurial skills	Assessment on effect of different extension teaching methods on acquiring entrepreneurial skills of coconut among FPO farmers	-	3	-	-	2	-	-	-	-	-
5	Intercropping system	Cowpea + Coconut	Practicing mono cropping in coconut reduces land use efficiency	-	Demonstration of cowpea variety KBC – 9 as on intercrop in coconut garden	2	1	3	3	0.5	-	-	Pulse magic Rhizobium	20 10

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
			and increases weed menace											
6	ICM	Paddy	Existing varieties are medium sized grain, susceptible to blast, low yield and less grain recovery percentage	-	Demonstration of paddy variety RNR 15048 for higher productivity	2	-	-	1	-	-	-	-	-
7	Intercropping system	Hebbal Avare + Arecanut	mono cropping in younger arecanut gardens reduces soil fertility, increase weed menace and no returns	-	Demonstration of Inter – cropping of Hebbal Avare (HA-5) in younger Arecanut gardens	3	2	2	2	0.6	-	-	Pulse magic Rhizobium	20 10
8	Double cropping system	Finger millet + cow pea	Finger Millet is being grown as sole crop with blast susceptible varieties in Tumkur district. Farmers are not taking the advantage of bimodal distribution of rainfall from May to November (7 months) to adopt double cropping system	-	Demonstration of Finger millet var. KMR – 316 under double cropping system (Cowpea – Finger millet)	3	-	-	3	-	-	-	-	-
9	Intercropping system	Redgram + Foxtail millet	Less utilization of space, low income	-	Demonstration of Redgram (BRG-3) + Foxtail millet (DHFT – 109-3) under rainfed situation	3	-	-	3	-	-	-	-	-
10	ICM	Chilli	Farmers growing local varieties incurring crop loss due to leaf curling/Murda complex (30%) affecting yield and economic returns	-	Demonstration of Integrated crop management in Arka Gagan green Chilli	3	2	3	3	-	30000	-	Vegetable special NAA	5 500 ml
11	ICM	Mango	Poor canopy management, Alternate bearing, poor nutrient management, fruit dropping, Fruit fly (25-30%) & Powdery mildew incidence	-	Demonstration of ICM in Mango (var. Alphanso) for enhancing productivity	1	1	2	2	-	-	-	Mango special NAA	76 150 0 ml

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
			(18%).											
12	ICM	Banana	Poor suckers and nutrient management, incidence of Panama wilt and Rhizome weevil leads to low yield in banana.	-	Demonstration of Integrated crop management in Banana (var. Yelelakki)	1	1	2	2	-	-	-	Banana special AMC	25 5
13	IDM	Ginger	Rhizome rot complex causing yield loss up to 40%	-	Demonstration on management of rhizome rot complex in Ginger	6	-	-	4	-	-	-	-	-
14	Composite fish culture	Fish	90 percent of the farmers are not being practiced the fish farming and hence resources are wasted, ineffective usage of Farm ponds	-	Demonstration of composite fish culture	1	-	-	5	-	-	2400 fingerlings / farmer	-	-
15	Value addition	Little millet	Low income due to lack of knowledge on importance of value addition, labeling, packaging and branding	-	Demonstration of Little millet variety GPUL – 6 and its value addition	3	-	-	4	-	-	-	-	-
16	Value addition	Foxtail millet	Low income due to lack of knowledge on importance of value addition, labeling, packaging and branding	-	Demonstration of foxtail millet variety GPUF – 3 and its value addition, processing and marketing	3	-	-	4	-	-	-	-	-
17	Composting methodology	Areca husk	Improper method of composting methodology	-	Demonstration of composting methodology for areca husk	2	-	-	1	-	-	-	-	-
18	IPM	Arecanut	Severe incidence (30 %) of spindle bug	-	Demonstration on management of spindle bug in younger Arecanut garden	2	-	-	1	-	-	-	-	-
19	IPM	Coconut	Rugose Spiraling whitefly (60%) is becoming severe in coconut	-	Demonstration on management of Rugose spiraling whitefly in coconut	5	-	-	3	-	-	-	-	-
20	IDM	Arecanut	30 percent of areca nut area affected with inflorescence die back	-	Demonstration on management of inflorescence die back in Arecanut	3	-	-	2	-	-	-	-	-
21	Honey Bee rearing	Coconut + Bee	Lack of knowledge about rearing of bee	-	Demonstration of Honey Bee rearing (*Apis cerana*) in coconut garden	2	-	-	2	-	-	-	-	-
22	Integrated	Dairy	Lack of	-	Summer management of dairy animals	will be started	-	-	-	-	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
	Scientific management	animals	knowledge about importance of Yeast in Digestion of Roughage and calcium in milk production			in march 2024								
23	Integrated Scientific management	Lambs	Lack of knowledge about Importance of vitamins and amino acids in attaining good weight and Deworming and iron supplementation	-	Scientific management of male lambs	2	1	-	10					
24	Terrace garden	Terrace garden	Lack of knowledge on terrace garden	-	Demonstration of terrace garden in KVK premise	2	1	2	2	-	Vegetable & flower seedlings	-	Trichoderma Pseudomonas AMC	1 1 1
25	Nutrient spray	Nutrient spray using drone	Lack of knowledge on nutrient spray using drone	-	Demonstration of nutrient spray using drone	4	-	-	3	-	-	-	-	
26	Value addition (EDP)	Coconut	Low income due to lack of knowledge on importance of value addition, labeling, packaging and branding	-	Coconut value addition , branding and market linkage (EDP)	6	-	-	4	-	-	-	-	-
27	EDP	Tamarind seed	Low income due to lack of knowledge on importance of value addition, labeling, packaging and branding	-	Processing and branding of tamarind seed powder (EDP)	6	-	-	4	-	-	-	-	-
28	Nutrition garden	Nutri garden	Micronutrient deficiencies also referred to as 'Hidden Hunger' affects the health, learning ability as well as productivity owing to high rates of illness and disability contributing to malnutrition, underdevelopment and poverty		Nutrition security of farm families through nutrition garden	6	-	-	4	-	-	-	-	-

3.B2. Details of technology used during reporting period

S. No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Assessment of foxtail millet varieties for higher yield	UAS, Bangalore, UAS, Dharwad, AICRP small millets, Nandyal	Foxtail millet	1	-	2	1
2	Assessment of Ganoderma disease management in coconut	CPCRI, Kasargod , TNAU, Tamil nadu	Coconut	1	-	3	3
3	Assessment of bio formulations for improving quality and management of diseases in pomegranate	NRCP, Solapur, IIHR Bengaluru	Pomegranate	1	-	3	1
4	Assessment on effect of different extension teaching methods on acquiring entrepreneurial skills of coconut among FPO farmers	-	coconut	1	-	3	2
5	Demonstration of cowpea variety KBC – 9 as on intercrop in coconut garden	UAS, Bengaluru	Cowpea + Coconut	-	1	6	3
6	Demonstration of paddy variety RNR 15048 for higher productivity	PJTSAU, Hyderabad	Paddy	-	1	2	1
7	Demonstration of Inter – cropping of Hebbal Avare (HA-5) in younger Arecanut gardens	UAS, Bengaluru	Hebbal Avare + Arecanut	-	1	7	2
8	Demonstration of Finger millet var. KMR – 316 under double cropping system (Cowpea – Finger millet)	UAS, Bengaluru	Finger millet + cow pea	-	1	3	3
9	Demonstration of Redgram (BRG-3) + Foxtail millet (DHFT – 109-3) under rainfed situation	UAS, Bengaluru	Redgram + Foxtail millet	-	1	3	3
10	Demonstration of Integrated crop management in Arka Gagan green Chilli	IIHR, Bengaluru	Chilli	-	1	7	3
11	Demonstration of ICM in Mango (var. Alphanso) for enhancing productivity	IIHR, Bengaluru	Mango	-	1	4	2
12	Demonstration of Integrated crop management in Banana (var. Yelelakki)	IIHR, Bengaluru	Banana	-	1	4	2
13	Demonstration on management of rhizome rot complex in Ginger	IIHR, Bengaluru	Ginger	-	1	6	4
14	Demonstration of composite fish culture	KVAFSU, Bidar	Fish	-	1	1	5
15	Demonstration of Little millet variety GPUL – 6 and its value addition	UAS, Bengaluru	Little millet	-	1	3	4
16	Demonstration of foxtail millet variety GPUF – 3 and its value addition, processing and marketing	UAS, Bengaluru	Foxtail millet	-	1	3	4
17	Demonstration of composting methodology for areca husk	UAS, Bengaluru	Areca husk	-	1	2	1
18	Demonstration on management of spindle bug in younger Arecanut garden	CPCRI, Kasaragod	Arecanut	-	1	2	1
19	Demonstration on management of Rugose spiraling whitefly in coconut	NBAIR, Bengaluru	Coconut	-	1	5	3
20	Demonstration on management of inflorescence die back in Arecanut	CPCRI, Kasaragod	Arecanut	-	1	3	2
21	Demonstration of Honey Bee rearing (*Apis cerana*) in coconut garden	UAS, Bengaluru	Coconut + Bee	-	1	2	2
22	Summer management of dairy animals	NIANP, Bengaluru	Dairy animals	-	1	-	-
23	Scientific management of male lambs	KVAFSU, Bidar	Lambs	-	1	3	10
24	Demonstration of terrace garden in KVK premise	IIHR, Bengaluru	Terrace garden	-	1	5	2
25	Demonstration of nutrient spray using drone	UAS, Bengaluru	Nutrient spray using drone	-	1	4	3
26	Coconut value addition , branding and market linkage (EDP)	UAS, Bengaluru	Coconut	-	1	6	4
27	Processing and branding of tamarind seed powder (EDP)	TNAU, Tamil nadu	Tamarind seed	-	1	6	4
28	Nutrition security of farm families through nutrition garden	UAS, Bengaluru	Nutri garden	-	1	6	4

3.B2 contd..

Sl. No.	No. of farmers covered															
	OFT				FLD				Training				Others (Specify)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	3	1	1	-					28	17	8	1	10	3	4	2
2	6	2	1	1					21	17	5	1	8	3	4	3
3	4	1	2	-					52	31	5	15	15	3	6	0
4	1	-	-	-					20	14	5	1	9	3	4	2
5	-	-	-	-	8	1	1	0	38	16	12	2	15	3	5	5
6	-	-	-	-	9	4	1	1	20	14	5	1	9	3	4	1
7	-	-	-	-	7	2	1	0	29	17	8	1	10	3	4	2
8	-	-	-	-	9	1	0	0	36	12	5	1	7	3	3	2
9	-	-	-	-	6	2	1	1	29	13	6	2	9	3	4	1
10	-	-	-	-	3	2	0	0	25	16	5	1	16	4	4	2
11	-	-	-	-	9	2	3	1	28	15	2	1	17	3	4	2
12	-	-	-	-	4	1	0	0	22	17	5	1	9	3	4	2
13	-	-	-	-	3	1	1	0	42	24	5	2	11	4	2	3
14	-	-	-	-	3	1	0	1	20	14	5	1	9	3	4	2
15	-	-	-	-	9	1	0	0	25	16	5	1	16	4	4	1
16	-	-	-	-	8	2	0	0	29	17	8	1	10	3	4	2
17	-	-	-	-	9	1	0	0	20	15	7	1	8	3	3	1
18	-	-	-	-	8	1	1	0	22	13	7	1	7	3	3	1
19	-	-	-	-	9	1	0	0	41	21	4	2	10	4	2	3
20	-	-	-	-	15	4	1	0	21	15	6	1	17	4	4	1
21	-	-	-	-	1	0	0	0	24	12	5	1	9	3	4	1
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	9	4	1	1	20	14	5	1	145	22	12	10
24	-	-	-	-	1	0	0	0	28	15	2	11	14	3	4	2
25	-	-	-	-	9	1	0	0	46	25	4	2	10	4	2	3
26	-	-	-	-	1	1	0	0	49	28	4	2	22	12	2	3
27	-	-	-	-	1	1	0	0	55	29	4	2	24	14	2	3
28	-	-	-	-	5	25	0	0	47	26	4	2	29	18	2	3

PART IV - On Farm Trial

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	Spice / Medicinal crops	TOTAL
Integrated Nutrient Management											
Varietal Evaluation	1					1					2
Integrated Pest Management											
Integrated Crop Management											
Integrated Disease Management								1			1
Small Scale Income Generation Enterprises											
Weed Management											
Resource Conservation Technology											
Farm Machineries											
Integrated Farming System											
Seed / Plant production											
Value addition											
Drudgery Reduction											

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Spice / Medicinal crops	TOTAL
Storage Technique											
Cropping Systems											
Farm Mechanization											
Mushroom cultivation											
others								2			
Total	1					1		2			4

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Spice / Medicinal crops	TOTAL
Integrated Nutrient Management											
Varietal Evaluation											
Integrated Pest Management											
Integrated Crop Management											
Integrated Disease Management											
Small Scale Income Generation Enterprises											
Weed											

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Spice / Medicinal crops	TOTAL
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 : Nil

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 : Nil

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	Crop	Name of the technologies	No. of Technological options tested in each OFT	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management						
Varietal Evaluation	Foxtail millet	Assessment of foxtail millet varieties for higher yield	4	5	5	2 ha
	Pomegranate	Assessment of bio formulations for improving quality and management of diseases in pomegranate	3	7	7	1.5 ha
Integrated Pest Management						
Integrated Crop Management						
Integrated Disease Management	Coconut	Assessment of Ganoderma disease management in coconut	3	10	10	2 ha
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						

4.B.2. Technologies Refined under various Crops : Nil

Thematic areas	Crop	Name of the technologies	No. of Technological options tested in each OFT	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						

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 : Nil

Thematic areas	Name of the livestock	Name of the technologies	No. of Technological options tested in each OFT	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 : Nil

Thematic areas	Name of the livestock	Name of the technologies	No. of Technological options tested in each OFT	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. T**echnologies assessed under various enterprises by KVKs**

Sl.	**Thematic areas**	**Name of the enterprise**	**Name of technology(s)**	**No. of Technological options tested in each OFT**	**No. of trials**	**No. of locations**
1	Drudgery reduction					
2	Entrepreneurship Development	FPO	Assessment on effect of different extension teaching methods on acquiring entrepreneurial skills of coconut among FPO farmers	4	1	1
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.T**echnologies assessed under various enterprises for women empowerment : Nil**

	Thematic areas	**Name of enterprise**	**Name of technology(s)**	**No. of Technological options tested in each OFT**	**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 : Assessment of foxtail millet varieties for higher yield

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	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
Foxtail millet	Rainfed	Low yield, Less resistant to drought	Assessment of foxtail millet varieties for higher yield	5	T.O.1 : Local varieties	-	crop has been vicated due to lack of rainfall after sowing of crop					
					T.O.2: DHFT 109-3	UAS, Dharwad						
					T.O.3: SiA 3159	AICRP small millets, Nandyal						
					T.O.4: GPUF 3	UAS, Bangalore						

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of foxtail millet varieties for higher yield	➢ Minor millets are important crops occupying an area of 1896 ha in Tumkur district. Farmers are growing local varieties which are low yielding (4 q/ha) and drought susceptible. ➢ Hence the assessment of high yielding and drought resistant varieties has been taken.	-

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

1. Title of Technology Assessed : Assessment of foxtail millet varieties for higher yield
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

4.C1. Results of Technologies Assessed: Assessment of Ganoderma disease management in coconut

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	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
Coconut	Irrigated	Low yield, Incidence of Diseases	Assessment of Ganoderma disease management in coconut	10	T.O.1: Farmers practice	-	progress					
					T.O.2: • Removal of dead palms. • Addition of 50 kg of farmyard manure or green leaves or 200 kg tank silt per palm per year. • Application of Trichoderma 200g + 5 kg neem cake per palm per year and irrigating the palm once in 4 days. • Root feeding of hexaconazole @ 2% (100 ml solution per palm) at quarterly intervals for one year	CPCRI, Kasargod						
					T.O.3: • Remove and destroy palms. • Green manure crops must be raised and ploughed in situ before flowering • Pseudomonas fluorescens (Pf-1) @ 200 g/palm + Trichoderma viride @ 200 g/palm/year 200g Phosphobacteria and 200 g Azotobactor mixed with 50 kg of FYM/palm + neem cake 5 Kg once in 6 months along with fertilizers. • Aureofungin-sol. 2 g +1 g Copper Sulphate in 100ml water applied as root feeding • Root feeding with Tridemorph 2ml or Hexaconazole 1 ml with 100 ml of water (3 times at 3 months interval). • Forty litres of 1% Bordeaux mixture should be applied as soil drench around the trunk in a radius of 1.5m.	TNAU, Tamil nadu						

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of Ganoderma disease management in coconut	1. Basal stem rot caused by Ganoderma sps. It is one of the most devastating disease identified in coconut orchards of Tumakuru district (27 %, in > 20 year old palms) 2. It is a soil borne disease spreads rapidly due to flood irrigation leading to death of palms 3. A combination of biological and systemic fungicides along with good cultural practices will effectively control the disease in palms	-

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

1. Title of Technology Assessed: Assessment of Ganoderma disease management in coconut
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

4.C1. Results of Technologies Assessed: Assessment of bio formulations for improving quality and management of diseases in pomegranate

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	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
pomegranate	Irrigated	Low yield, incidence of Pest and Diseases Imbalanced nutrient management	Assessment of bio formulations for improving quality and management of diseases in pomegranate	7	T.O.1: Farmers practice	-	Flowering stage					
					T.O.2: • Application of Aspergillus niger @ 5 gm /plant + pseudomonas @ 20 gm + drenching with VAM @25 gm /plant	NRCP, Solapur						
					T.O.3: • Application of Actino bacterial consortium: Actinoplus @ 50 gm /plant.	IIHR Bengaluru						

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of bio formulations for improving quality and management of diseases in pomegranate	➢ Application of Aspergillus niger of NRCP, Actinobacterial consortium of IIHR reported in improving Soil health and reducing disease incidence. ➢ Application of bio formulations helps in Mobilizing the P and Zn in soil and thus enhances quality of pomegranate fruits.	Lack of availability and lack of knowledge about bio formulation

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

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

4.C1. Results of Technologies Assessed: Assessment on effect of different extension teaching methods on acquiring entrepreneurial skills of coconut among FPO farmers

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	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
Coconut	Irrigated	Less entrepreneurial skills	Assessment on effect of different extension teaching methods on acquiring entrepreneurial skills of coconut among FPO farmers	1	T.O.1: FPO with no intervention	-	results in progress					
					T.O.2: • FPO with Training	-						
					T.O.3: • FPO with Training + Exposure visits	-						
					T.O.4: • FPO with Training + Enterprise placement	-						

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment on effect of different extension teaching methods on acquiring entrepreneurial skills of coconut among FPO farmers	-	-

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

1. Title of Technology Assessed : Assessment on effect of different extension teaching methods on acquiring entrepreneurial skills of coconut among FPO farmers
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

4.D1. Results of Technologies Refined

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. D2. Feedback on technologies refined

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

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
	Oilseeds													
1	Pulses	solo croppin g	Rainy 2023	cowpea	KBC – 9	-	Intercroppin g	Demonstratio n of cowpea variety KBC – 9 as on intercrop in coconut garden	2	2	2	8	6	4
2	Pulses	solo croppin g	Rainy 2023	Hebbal Avare	HA-5	-	Intercroppin g	Demonstratio n of Inter – cropping of Hebbal Avare (HA-5) in younger Arecanut gardens	4	4	3	7	7	3
3	Cereals	Irrigated	Kharif 2023	Paddy	RNR 15048	-	crop production	Demonstratio n of paddy variety RNR 15048 for higher productivity	6.5	6.5	2	13	4	11
4	Cereals + Millets	Rainfed	Kharif 2023	Cowpea – Finger millet	KMR – 316	-	Intercroppin g	Demonstratio n of Finger millet var. KMR – 316 under double cropping system (Cowpea – Finger millet)	4	4	3	7	2	8
5	Cereals + Millets	Rainfed	Kharif 2023	Redgram + Foxtail millet	BRG-3 + DHFT – 109-3	-	Intercroppin g	Demonstratio n of Redgram (BRG-3) + Foxtail millet	4	4	2	8	3	7

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
								(DHFT – 109-3) under rainfed situation						
6	Millets	Rainfed	Kharif 2023	Little millet	GPUL – 6	-	Value addition	Demonstration of Little millet variety GPUL – 6 and its value addition	4	4	3	7	2	8
7	Millets	Rainfed	Kharif 2023	Little millet	GPUF – 3	-	Value addition	Demonstration of foxtail millet variety GPUF – 3 and its value addition, processing and marketing	4	4	3	7	2	8
8	Vegetables	Rainfed	Kharif 2023	Chilli	-	Arka Gagan	ICM	Demonstration of Integrated crop management in Arka Gagan green Chilli	1	1	1	4	4	1
	Flowers													
	Ornamental													
9	Fruit	Rainfed	perennial	Mango	Alphanso	-	ICM	Demonstration of ICM in Mango (var. Alphanso) for enhancing productivity	3	3	3	12	4	11
10	Fruit	Irrigated	perennial	Banana	Yelelakki	-	ICM	Demonstration of Integrated crop	1	1	1	4	2	3

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
								management in Banana (var. Yelelakki)						
11	Fruit	Irrigated	perennial	tamarind	-	-	Value addition (EDP)	Processing and branding of tamarind seed powder (EDP)	2 SHG	2 SHG	-	-	-	-
12	Fruit / vegetable/ flowers	-	-	Fruit / vegetable / flowers	-	-	Terrace garden	Demonstration of terrace garden in KVK premise	750 sq. ft	750 sq. ft	1	1	1	1
13	Spices and condiments	Irrigated	Kharif 2023	Ginger	-	-	IDM	Demonstration on management of rhizome rot complex in Ginger	2	2	1	4	1	4
	Commercial													
	Medicinal and aromatic													
	Fodder													
14	Plantation	burning of areca husk	-	areca husk	local	-	Composting methodology	Demonstration of composting methodology for areca husk	-	-	2	8	4	6
15	Plantation	Irrigated	Perennial	Arecanut	local	-	IPM	Demonstration on management of spindle bug in younger Arecanut garden	2	2	2	8	3	7

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
16	Plantation	Irrigated	Perennial	Coconut	local	-	IPM	Demonstration on management of Rugose spiraling whitefly in coconut	20	20	1	9	2	8
17	Plantation	Irrigated	Perennial	Arecanut	local	-	IDM	Demonstration on management of inflorescence die back in Arecanut	2	2	4	16	3	17
18	Plantation	Irrigated	Perennial	Coconut + Honey Bee	local + *Apis cerana*	-	Honey Bee rearing	Demonstration of Honey Bee rearing (*Apis cerana*) in coconut garden	1	1	1	1	1	1
19	Plantation	Irrigated	Perennial	Coconut	local	-	Value addition (EDP)	Coconut value addition , branding and market linkage (EDP)	2 SHG	2 SHG	-	-	-	-
	Dairy													
	Poultry													
	Rabbitry													
	Piggery													
20	Sheep and goat	-	-	lambs	-	-	Integrated Scientific management	Scientific management of male lambs	15 lambs / demo	15 lambs / demo	4	11	3	12
	Duckery													
21	Common carps	-	Kharif 2023	Fish	Catla, Rohu, Common carp		Composite fish culture	Demonstration of composite fish culture	5	5	1	4	1	4

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
	Mussels													
	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													
22	Nutrient spray	-	Kharif 2023	Nutrient spray using drone	-	-	Nutrient spray	Demonstration of nutrient spray using drone	4	4	2	8	3	7
23	Nutrition garden	Irrigated	Kharif / Rabi/ summer	nutrition garden	-	-	nutrition garden	Nutrition security of farm families through nutrition garden	30 family	30 family	0	30	15	15

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Oilseeds												
1	Pulses	solo cropping	rainy 2023	cowpea	KBC – 9	-	Intercropping	Demonstration of cowpea variety KBC – 9 as on intercrop in coconut garden	winter 2023	M	M	M	solo cropping
2	Pulses	solo cropping	rainy 2023	Hebbal Avare	HA-5	-	Intercropping	Demonstration of Inter – cropping of Hebbal Avare (HA-5) in younger Arecanut gardens	winter 2023	M	M	M	solo cropping
3	Cereals + Millets	Rainfed	Kharif 2023	Cowpea – Finger millet	KMR – 316	-	Intercropping	Demonstration of Finger millet var. KMR – 316 under double cropping system (Cowpea – Finger millet)	Kharif 2023	L	M	M	Ragi
4	Cereals + Millets	Rainfed	Kharif 2023	Redgram + Foxtail millet	BRG-3 + DHFT – 109-3	-	Intercropping	Demonstration of Redgram (BRG-3) + Foxtail millet (DHFT – 109-3) under rainfed situation	Kharif 2023	L	M	M	Redgram
5	Millets	Rainfed	Kharif 2023	Little millet	GPUL – 6	-	Value addition	Demonstration of Little millet variety GPUL – 6 and its value addition	Kharif 2023	L	M	M	Ragi
6	Millets	Rainfed	Kharif 2023	Little millet	GPUF – 3	-	Value addition	Demonstration of foxtail millet variety GPUF – 3 and its value addition, processing and marketing	Kharif 2023	M	L	M	saame
	Vegetables												
	Flowers												
	Ornamental												
	Fruit												

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
7	Spices and condiments	Irrigated	Kharif 2023	Ginger	-	-	IDM	Demonstration on management of rhizome rot complex in Ginger	Kharif 2023	M	L	M	Ginger
	Commercial												
	Medicinal and aromatic												
	Fodder												
8	Plantation	Irrigated	Perennial	Arecanut	local	-	IPM	Demonstration on management of spindle bug in younger Arecanut garden	Perennial	L	M	M	Arecanut
9	Plantation	Irrigated	Perennial	Coconut	local	-	IPM	Demonstration on management of Rugose spiraling whitefly in coconut	Perennial	M	M	M	coconut
10	Plantation	Irrigated	Perennial	Arecanut	local	-	IDM	Demonstration on management of inflorescence die back in Arecanut	Perennial	M	M	L	Arecanut
11	Plantation	Irrigated	Perennial	Coconut + Honey Bee	local + *Apis cerana*	-	Honey Bee rearing	Demonstration of Honey Bee rearing (*Apis cerana*) in coconut garden	Perennial	M	M	L	coconut
	Fibre												

5.B. Results of FLDs

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)		
							Demo			Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
Oilseeds																	
Pulses	Demonstration of cowpea variety KBC – 9 as on intercrop in coconut garden	KBC – 9	-	solo cropping	10	2	35	30	32.5	0	100	65000	31875	1.96	-	-	-
Pulses	Demonstration of Inter – cropping of Hebbal Avare (HA-4) in younger Arecanut gardens	HA-4	-	solo cropping	10	4	31	23.4	27.2	0	100	95200	56450	2.45	-	-	-
Cereals	Demonstration of paddy variety RNR 15048 for higher productivity	RNR 15048	-	Irrigated	15	6.5	-	-	60	47.52	26.31	139590	84759	2.54	96850	39746	1.69
Cereals + millets	Demonstration of Finger millet var. KMR – 316 under double cropping system (Cowpea – Finger millet)	KMR – 316	-	Rainfed	10	4	-	-	Ragi 17.1	13.7	23.9	51693	23993	1.86	41717	16207	1.63
									Cowpea 8.7	-	-	60465	36965	2.57	-	-	-
Cereals + millets	Demonstration of Redgram (BRG-3) + Foxtail	BRG-3 + DHFT – 109-3	-	Rainfed	10	4	-	-	Redgram 10.75	7.85	36.94	87097	-	2.55	63600	-	1.94

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)		
	millet (DHFT – 109-3) under rainfed situation						-	-	Foxtail millet -	-	-	-	-	-	-	-	-
Vegetables	Demonstration of Integrated crop management in Arka Gagan green Chilli	-	Arka Gagan	Local var. hulka Rainfed	5	1	252	232	242	195	22.72	484000	359000	3.87	396000	258000	2.78
Millets	Demonstration of Little millet variety GPUL – 6 and its value addition	GPUL – 6	-	Rainfed	10	4	-	-	7.75	6.11	-	-	-	-	-	-	-
Millets	Demonstration of foxtail millet variety GPUF – 3 and its value addition, processing and marketing	GPUF – 3	-	Rainfed	10	4	-	-	11.89	9.72	-	-	-	-	-	-	-
Flowers																	
Ornamental																	
Fruit	Demonstration of ICM in Mango (var. Alphanso) for enhancing productivity	Alphanso	-	lack of micro nutrient management	15	3	flowering stage										
Fruit	Demonstration of Integrated crop management in Banana (var. Yelelakki)	Yelelakki	-	lack of micro nutrient management	5	1	fruiting stage										

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)		
Fruit / vegetable/ flowers	Demonstration of terrace garden in KVK premise	-	-	-	1	750 sq. ft	Flowering stage					-	-	-	-	-	-
Fruit	Processing and branding of tamarind seed powder (EDP)	Local	-	Rainfed	-	2 SHG	progress										
Spices and condiments	Demonstration on management of rhizome rot complex in Ginger	-	-	Irrigated	5	2	-	-	285.00	157.5	-	237500	1825000	3.32	131250	875000	2.03
Commercial																	
Fibre crops like cotton																	
Medicinal and aromatic																	
Fodder																	
Plantation	Demonstration of composting methodology for areca husk	local	-	burning of areca husk	10	-	composting stage										

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check (Rs./ha)		
Arecanut	Demonstration on management of spindle bug in younger Arecanut garden	local	-	Irrigated	10	2					progress						
Coconut	Demonstration on management of Rugose spiraling whitefly in coconut	local	-	Irrigated	10	20					Progress						
Arecanut	Demonstration on management of inflorescence die back in Arecanut	local	-	Irrigated	10	2					Progress						
Coconut + Honey Bee	Demonstration of Honey Bee rearing (*Apis cerana*) in coconut garden	local + *Apis cerana*	-	Irrigated	1	5 box					progress						
Coconut	Coconut value addition , branding and market linkage (EDP)	local	-	Irrigated	-	2 SHG					progress						
Fibre																	
Others (pl.specify)																	
Nutrient spray using drone	Demonstration of nutrient spray using drone	-	-	-	10	4	progress										

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)		% Increase	Economics of demonstration (Rs./ha)	Economics of check (Rs./ha)
Nutrition garden	Nutrition security of farm families through nutrition garden	-	-	Kharif / Rabi/ summer	30 family	30 family	*				

*** Results of Nutrition security of farm families through nutrition garden**

Sl. No.	seeds		
	Kharif	Rabi	Summer
1	Bhendi	Carrot	Ridge gourd
2	Cowpea	Beans	Ash gourd
3	Carrot	Cluster beans	Bitter gourd
4	Knol khol	Amaranth	Cucumber
5	Onion	Radish	Pumpkin
6	Cluster beans	Palak	palak
7	Palak	Fenugreak	
8	Fenogreak	coriander	
Veg. seedlings		Tomato, Chilli, Brinjal	
Flower seedlings		Mari gold, Chrarysanthemum	
Medicinal and fruit Saplings		Papaya,star fruit, Brahimi,,, white hibiscus, lemon grass Doddapatre, Amruthballi, Lemon, Chakramuni, Guava goose berry, drum stick and Amla,	

Crops of nutrition garden

Details	Kharif	Rabi	Total (Kgs)
Quantity of GLV Produced (Kg)	620	410	1,030
Quantity of other vegetables Produced (Kg)	305	242	547

Nutrition garden 30 farm family vegetable Gross cost

farm family	Gross cost (Rs./ year)		savings (Rs./ year)	Percentage savings (%)
	Before	after		
30 farm family	1,80,000	1,10,000	70000	38.88%
1 farm family	6000	3666	2333	

Adequacy of Food Intake Before and after Nutri Garden

	RDA	Before		After		Per cent increase
	(g/ml)	Mean	% adequacy	Mean	% adequacy	
CEREALS	330 g	297.12	90.03	325.07	92.44	2.41
PULSES	75 g	50.13	66.84	59.05	78.73	11.89
MILK AND ITS PRODUCTS	300 ml	195.25	65.08	205.15	68.38	3.30
ROOTS AND TUBERS	200g	55.32	27.66	67.12	33.56	5.90
GLV	100g	80.32	80.32	95.75	95.75	15.43
OTHER VEGETABLES	200g	135.25	67.62	166.13	83.06	15.44
FRUITS	100g	42.23	52.23	51.35	67.35	19.02
SUGARS	30g	45.85	152.83	33.03	110.1	-42.73
FATS	25g	41.25	165.00	25.05	100.0	-65.00

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

Demonstration of cowpea variety KBC – 9 as on intercrop in coconut garden

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Weed smothering effect (sq.ft.)	65-70	100

Demonstration of Inter – cropping of Hebbal Avare (HA-5) in younger Arecanut gardens

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Weed smothering effect (sq.ft.)	60-65	100

Demonstration of Integrated crop management in Arka Gagan green Chilli

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Leaf curl disease in chill (%)	1.6	5.25

Demonstration of paddy variety RNR 15048 for higher productivity

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Plant height (cm)	93.77	80.21
Panicles / plant	29.83	20.56
Blast incidence %	0.00	13.56
Grain yield (q/ha)	57.90	48.25
straw yield (t/ha)	10.50	8.20

Demonstration of Finger millet var. KMR – 316 under double cropping system (Cowpea – Finger millet)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Plant height (cm)	105.5	118.4
Blast incidence %	3.8	14.2
straw yield (t/ha)	2.86	2.75

Demonstration of Redgram (BRG-3) + Foxtail millet (DHFT – 109-3) under rainfed situation

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Plant height (cm)	173	187
Germination %	90	82

Demonstration on management of rhizome rot complex in Ginger

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Disease incidence %	14.85	52.65
Yield / plant (kg/ha)	2.50	1.80

Demonstration of Little millet variety GPUL – 6 and its value addition

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Plant height / plant (cm)	90	82
No. of fingers / plant (No.)	6	4
No. of Tillers / plant (No.)	7	5

Demonstration of foxtail millet variety GPUF – 3 and its value addition, processing and marketing

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Plant height / plant (cm)	104	82
No. of fingers / plant (No.)	4	3

No. of Tillers / plant (No.)	5	4

Feedback on technologies demonstrated

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of cowpea variety KBC – 9 as on intercrop in coconut garden	Growing of cowpea in coconut garden reduces the weeds and enhances the soil fertility status and addition income to the farmers	lack of knowledge about suitable intercrop in coconut and photo insensivity of cowpea
Demonstration of Inter – cropping of Hebbal Avare (HA-5) in younger Arecanut gardens	Growing of Hebbal avare in younger arecanut garden reduces the weeds and enhances the soil fertility status and addition income to the farmers	lack of knowledge about suitable intercrop in Arecanut and water and nutrient management
Demonstration of Integrated crop management in Arka Gagan green Chilli	High yield less incidence of leaf curl diseases	lack of knowledge about improved hybrid and vegetable special
Demonstration of paddy variety RNR 15048 for higher productivity	Grain shattering percentage was nil	Nil

5. B2. Data on IFS demonstrations including KVK farm demo model : Nil

Name of the IFS technology demonstrated	Name of IFS Components				Total Area (ha)	IFS Yield (q/ha)				Check yield (Mono crop)	% Increase over check	Economics of IFS demonstration (Rs./ha)			Economics of check demonstration (Rs./ha)		
	1	2	3	4		Component wise (Mention name of component and yield parameter)						Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
						1	2	3	4								

Feedback on IFS technologies demonstrated

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

5.B.3. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Name of the parameter with unit	Yield (kg/animal)				% Increase	*Economics of demonstration Rs./unit)			*Economics of check (Rs./unit)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Dairy																
	Summer management of dairy animals	local	15	1 cow/demo	will be started in march 2024											
Poultry																
Rabbitry																
Pigerry																
Sheep and goat	Scientific management of male lambs	Local	15	10 lambs/ demo	weight gain 14.6 in three month											
Duckery																

Others (pl.specify)																

* 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, inter-calving period etc.) : Nil

Data on other parameters in relation to technology demonstrated		
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

Type of Breed	**Name of the technology demonstrated**	**Breed**	**No. of Demo**	**Units/ Area (m^2)**	**Name of the parameter with unit**	**Yield (q/ha)**				**% Increase**	***Economics of demonstration (Rs./unit)**			***Economics of check (Rs./unit)**		
						Demo			**Check if any**		**Gross Return**	**Net Return**	**** BCR**	**Gross Return**	**Net Return**	**** BCR**
						H	L	A								
Common carps	Demonstration of composite fish culture	Catla, Rohu, Common carps	5	5	In progress											

Mussels																
Ornamental fishes																
Others (pl.specify)																

* 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.) : Nil

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

Enterprise	**Name of the technology demonstrated**	**Variety/ species**	**No. of Demo**	**Units/ Area {m^2}**	**Name of the parameter with unit**	**Yield**		**% Increase**	***Economics of demonstration (Rs./unit) or (Rs./m2)**			***Economics of check (Rs./unit) or (Rs./m2)**		
						Demo	**Check if any**		**Gross Return**	**Net Return**	**** BCR**	**Gross Return**	**Net Return**	**** BCR**

						H	L	A								
Oyster mushroom																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																

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

5.B.9. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Name of the operation with unit	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
						Demo	Check			Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR

* 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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	9	168	
2	Farmers Training	45	260	-
3	Media coverage	-	-	-
4	Training for extension functionaries	-	-	-
5	Others (Please specify)	-	-	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
					Demo			Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
					H	L	A								
Cereals															
Bajra															
Maize															
Paddy															
Sorghum															
Wheat															
Others (pl.specify)															
Total															
Oilseeds															
Castor															
Mustard															
Safflower															
Sesame															
Sunflower															
Groundnut															
Soybean															
Others (pl.specify)															
Total															
Pulses															
Greengram															
Blackgram															
Bengalgram															
Redgram															
Others (pl.specify)															

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
					Demo			Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
					H	L	A								
Total															
Vegetable crops															
Bottle gourd															
Capsicum															
Others (chilli)	Demonstration of Integrated crop management in Arka Gagan green Chilli	Arka Gagan	5	1	252	232	242	195	22.72	484000	359000	3.87	396000	258000	2.78
Total															
Cucumber															
Tomato															
Brinjal															
Okra															
Onion															
Potato															
Field bean															
Others (pl.specify)															
Total															
Commercial crops															
Sugarcane															
Coconut															
Others (pl.specify)															
Total															
Fodder crops															
Maize (Fodder)															
Sorghum (Fodder)															

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
					Demo			Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
					H	L	A								
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 Integrated crop management in Arka Gagan green Chilli	High yield less incidence of leaf curl diseases	lack of knowledge about improved hybrid and vegetable special

PART VII. TRAINING

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies	1	31	13	11	7	7	14	38	20	58
Cropping Systems	2	65	20	85	15	12	27	80	32	112
Crop Diversification	1	35	18	53	11	7	18	46	25	71
Integrated Farming	1	59	23	82	18	9	27	87	32	109

Micro Irrigation/Irrigation										
Seed production	1	59	35	94	18	10	28	97	45	122
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	1	20	8	28	4	4	8	24	12	36
Off-season vegetables	1	18	12	30	5	3	8	23	15	38
Nursery raising	1	60	25	85	10	8	18	70	33	103
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	25	15	40	11	6	17	36	21	57
Others (pl.specify)										
b) Fruits										
Training and Pruning	1	23	10	30	4	5	9	27	15	42
Layout and Management of Orchards										
Cultivation of Fruit	1	20	3	23	4	2	6	24	5	29
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										
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	1	65	13	78	10	7	17	75	20	95
Balanced use of fertilizers										
Soil and water testing	1	80	10	90	15	10	25	95	20	115
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	1	20	15	35	5	3	8	25	18	43
Poultry Management	2	63	29	92	18	7	25	81	36	117
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	28	13	41	11	5	16	39	18	57
Animal Disease Management	1	40	12	52	13	3	16	53	15	68
Feed and Fodder technology	1	15	5	20	3	2	5	18	7	25
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	2	21	23	2	5	7	4	26	30
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	1	20	60	80	10	25	35	30	85	115
Processing and cooking										
Gender mainstreaming through SHGs	1	0	23	23	-	11	-	34	-	34
Storage loss minimization techniques	1	5	15	20	5	5	10	10	20	30
Value addition	2	-	60	60	-	15	15	-	75	75
Women empowerment	1	-	46	46	-	10	10	-	56	56
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 systems	1	85	-	85	15	-	15	100	-	100
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements	1	13	-	13	2	-	2	15	-	15
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	1	20	3	23	3	-	3	23	3	26
Integrated Disease Management	1	23	4	27	5	1	6	28	5	33
Bio-control of pests and diseases	1	40	6	46	8	2	10	48	8	56
Production of bio control agents and bio pesticides	1	21	3	24	6	1	7	27	4	31
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 prawn										
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										
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	33	988	520	1508	205	185	390	1257	671	1898

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	2	28	18	46	5	4	9	33	22	55
Crop Diversification	1	25	3	28	3	1	4	28	4	32
Integrated Farming	1	15	5	20	3	1	4	18	6	24
Micro Irrigation/Irrigation	1	18	3	21	5	1	6	23	4	27
Seed production	1	10	3	13	2	-	2	12	3	15
Nursery management	1	15	5	20	3	2	5	18	7	25
Integrated Crop Management	1	12	3	15	2	-	2	14	3	17
Soil and Water Conservation	1	25	5	30	5	5	10	30	10	40
Integrated Nutrient Management	1	30	3	33	10	4	14	40	7	47
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables	2	30	12	42	10	5	15	40	17	57
Nursery raising	3	55	28	83	7	4	11	62	32	94
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	33	11	44	8	3	11	41	14	55
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	1	25	3	28	10	2	12	35	5	40
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	1	22	7	29	4	2	6	26	9	35
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing	1	53	13	66	5	2	7	58	15	73
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	2	2	26	28	1	1	2	3	27	30
Design and development of low/minimum cost diet	1	-	20	20	-	2	2	-	22	22
Designing and development for high nutrient efficiency diet	1	-	20	20	-	5	5	-	25	25

Minimization of nutrient loss in processing	2	4	32	36	2	7	9	6	39	45
Processing and cooking	4	2	69	71	-	15	15	2	84	86
Gender mainstreaming through SHGs										
Storage loss minimization techniques	2	1	28	29	2	7	9	3	35	38
Value addition	5	-	86	86	-	10	10	-	96	96
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 systems										
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	2	51	12	63	17	05	22	68	17	85
Integrated Disease Management	3	98	22	120	22	3	25	120	25	145
Bio-control of pests and diseases	2	25	2	27	6	1	7	31	3	34
Production of bio control agents and bio pesticides	3	101	7	108	18	5	23	119	12	131
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 prawn										
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										
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	46	680	446	1126	150	97	247	830	543	1373

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		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	1	23	2	25	6	-	6	29	2	31
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements	2	125	5	130	18	2	20	143	7	150
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										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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) friends on coconut tree	2	38	-	38	2	-	2	40	-	40
TOTAL	5	186	7	193	0	26	26	186	33	219

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		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										
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)

Area of training	No. of Courses	No. of Participants								
		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	1	25	5	30	3	3	6	28	8	36
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	2	-	81	81	-	10	10	-	91	91
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	1	3	26	29	-	11	11	3	37	40
Any other (pl.specify)										
Total	4	28	112	140	3	24	27	31	136	167

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	20	4	24	3	1	4	23	5	28
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	1	20	4	24	3	1	4	23	5	28

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops	2	85	11	96	15	4	19	100	15	115
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) plant protection**										
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										
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) krishi sakhi	5	142	56	198	15	8	23	157	64	221
12	**Agricultural Extension**										
12.a.	CapacityBuilding and Group Dynamics	1	15	60	75	5	30	35	20	90	110
12.b.	Others (pl.specify) FocT	2	158	63	221	42	18	60	200	81	281
	Nursery	1	15	-	15	-	-	-	15	-	15
	Total	11	415	190	605	77	60	137	492	250	742

Details of sponsoring agencies involved

1. CDB, Bangalore
2. MANAGE, Hyderabad
3. Sanjivini, Bangalore
4. NIPHM, Hyderabad

7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			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.	1	11	3	14	-	1	1	11	4	15
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	1	11	3	14	-	1	1	11	4	15

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

S. No.	Name of Job Role	Date of Start	Date of Close	Total Participants	No. of Participants									Date of Assessment	No of Participants passed assessment
					General			SC/ST			Grand Total				
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
1															
2.															

PART VIII – EXTENSION ACTIVITIES

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

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Advisory Services	8125	6600	1120	7720	260	120	380	15	10	25
Farmers visit to KVK	9750	8500	1100	9600	129	21	150	-	-	0
Lectures delivered as resource persons	142	2700	950	3650	648	315	963	300	57	357
Diagnostic visits	50	290	55	345	5	5	10	-	-	0
Field Day	13	348	39	387	34	20	54	15	7	22
Group meetings	37	490	102	592	80	40	120	3	2	5
Kisan Ghosthi	-	-	-	-	-	-	-	-	-	0
Film Show	21	700	106	806	50	30	80	-	-	0
Self Help Group Conveners meetings	12	74	206	280	10	26	36	1	3	4
Mahila Mandals Conveners meetings	4	-	107	107	-	14	14	-	4	4
Kisan Mela	-	-	-	-	-	-	-	-	-	0
Exhibition	7	1050	240	1290	110	40	150	30	20	50
Scientific visit to farmers field	217	813	211	1024	160	46	206	10	5	15
Soil health Camp	1	67	13	80	10		10	6	-	6
Animal Health Camp	1	100	20	120	35	35	70			0
plant health camps	-	-	-	-	-	-	-	-	-	0
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	0
Ex-trainees Sammelan	-	-	-	-	-	-	-	-	-	0
farmer sammelans	17	280	35	315	29	11	40	13	2	15
workshops	4	142	28	170	16	2	18	2	0	2
Method Demonstrations	28	417	169	586	60	30	90	3	2	5
Celebration of important days (specify)	12	617	293	910	164	54	218	19	12	31
special day celebration	14	180	42	222	28	18	46	8	7	15
Exposure visit	15	250	35	285	18	22	40	28	22	50
Others, specify	-	-	-	-	-	-	-	-	-	0
RSK visit	30	70	50	120	20	30	50	-	-	0
Total	18500	23688	4921	28609	1866	879	2745	453	153	606

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1	Popular articles	2
2	Newspaper coverage	85

3	Extension Literature	8
4	Radio Talks	15
5	TV Talks	19
6	CD/DVD/Video clips	-
7	Animal health camps (no. of animal treated)	-
8	Others, please specify	-
	Total	**129**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL

9.A. Production of seeds by the KVKs : Nil

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)					
Oilseeds					
Pulses					
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops					
Forest Species					
Others (specify)					
Total					

9.B. Production of hybrid seeds by the KVKs : Nil

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	Drumsick	-	2294	22940	35
Fruits	Papaya	-	1009	20180	22
	cashew	-	7	350	1
	Jamun	-	41	4940	10
	Sapota	-	45	5080	12
	Mango	-	38	5320	7
	Benehannu	-	192	30720	35
	Guava	-	178	15885	25
	Yoni	-	11	1100	5
Ornamental plants					
Medicinal and Aromatic					
Plantation	Arecanut	-	2528	76140	110
	Coconut	-	337	45050	55
Spices					
Tuber					
Fodder crop saplings					
Forest Species					
Others(specify)					
Amla	Amla	-	126	8150	2
Gasagase	Gasagase	-	2	40	3
Karonda	Karonda	-	1	20	1
Lemon	Lemon	-	82	4100	20
Ashoka	Ashoka	-	10	500	4
Doddapatre	Doddapatre	-	30	600	10
Total			**6806**	**235855**	**319**

Sale of fruits

Crop category	Name of the crop	Variety	Value (Rs.)
Fruits	Mango	Badami, Rasapuru, Mallika, Malagova, Beneshan, sinduri	115000
	Cashew	-	37800
	Sapota	Cricket ball, kalipatti, DSH-2	18000
	Guava	Lacknow	20100
	Tamarind	-	8500
	Jack fruit	-	3120
Total			**202520**

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

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 Bio-Products: Nil

Bio Products	Name of the bio-product	Quantity (q)	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers				
Bio-pesticide				
Bio-fungicide				
Bio Agents				
Others (specify)				
Vermicompost	Vermicompost	2.74	4110	25
Total				

9.D. Production of livestock

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows	Milk	4431 liters	140582	-
Cows	HF	2	85000	2
Buffaloes				
Calves				
Others (Pl. specify) Sheep	-	4	47500	5
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				

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

10. A. Literature Published

(i) Summary of published

Item	Number
Research papers- International	
Research papers- National	
Technical reports	3
Technical bulletins	
Popular articles - English	
Popular articles – Local language	
Extension literature	8
Others if any	
Book	1
Training manual	1

(ii) Details of Literature published(provide details only on Research articles and Technical Reports)

Please provide the details of 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.

Example:

Dagar J C, Tomar O S, Minhas P S and Kumar M, (2013) Lemon grass productivity as affected by salinity of irrigation water, planting methods and fertilizer doses on a calcareous soil in a semi-arid region of northwest India.*Indian Journal of Agricultural Sciences*, 83(7): 734-738.

2. Technical Reports: Authors name, Title of the technical report, name of publishing KVK, number of pages.

All Staff, (2023) 17th SAC report, Krishi Vigyan Kendra, Tumakuru, 86p.
All staff (2023) Annual Report- 2023, Krishi Vigyan Kendra, Tumakuru, 153p.
All staff (2023) Action Plan report- 2023-24, Krishi Vigyan Kendra, Tumakuru, 58p.

Abrol I P, Dargan K S and Bhumbla D R, (1973) Reclaiming Alkali Soils,Report No. 2,KVK, Karnal, 58p.

10.B. Details of Electronic Media Produced

S. No.	**Type of media**	**Title**	**Details**
1	CD / DVD	**1**	
2	Mobile Apps		
3	Social media groups with KVK as Admin	What's app	
4	Facebook account name	KVK Tumkur	
5	Instagram account name		
6	Others if any		

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).

1. Ginger (*Zingiber officinale*) is an important spice crop cultivated in tropical region. In Tumkur district it was grown in parts of the village, But major yield loss due to disease mainly such as rhizome rot. ICAR – Krishi vigyan Kendra, Konehalli, Tiptur conducted frontline demonstrations at ginger rhizome rot at farmers field during the year 2022-23. The main objective of frontline demonstration is to demonstrate the disease incidence was reduced by taking plant protection measure during the crop production. i.e. application of copper oxychloride and Trichoderma and lime can reduce the incidence of the disease at 60% at right timing. The farmer from umesh, gyaraghatta he has adopted all the method and reduce the disease incidence.



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

Innovative technologies (or activities) developed by KVK Konehalli, Tumkur and their adoption level

Sl.No.	Crop / Enterprise	Innovative technology / activity	Adoption rate(%)
1	CBA's	a. Redgram&Ragi growers association b. Palm climbers associations	40 50
2	Coconut	Grading and Marketing linkage	25
3	Minor millets	Grading, Branding & Market Linkage	38
4	Soil Fertility management	Soil test based nutrient management in crops	17

10.E. Give details of Indigenous Technical Knowledge practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
1	Paddy/Ragi	Seedlings were transplanted equi distance at spacing of 22.5 x 22.5cm	It facilitates intercultivation in both directions, conserves moisture, controls weeds and enhance tillering	-
2	Ragi	Sowing seeds mixed with FYM	It ensures better moisture and nutrient supply and reduces seed rate and finally lesser cost of production	-
4	Coconut	Application of common salt Planting cactus near tree	Cost effective substitute for potash and also acts as on insect repellent To control stem bleeding	-
5	Arecanut	Application of Tank silt @ 50ton/ha	Supply nutrient to crop	-
6	Paddy	Calotropies(yekka) branches are placed at the water inlet	Acts as a insect repellent	-
7	Coconut	Root feeding with neem oil	Reduce stem bleeding	-
8	Coconut	Planting kalli plants at the base of coconut palm	Reduce stem bleeding	-
9	Perennial crops	Rag husk, coconut fronds and husk are used as mulch	Check evaporation and weed growth	-
10	Redgram	Redgram is mixed with castor oil and stored in earthen vessel	Physical barrier to pests	-

11	Vegetable garden	Maize is grown around vegetable garden	Physical barrier to cattle and acts as a trap crop for insects	-

10 F. Technology Week celebration: Nil

Period of observing Technology Week: From to
Total 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

Krishi Vigyan Kendra, Tiptur, Tumkur district has been awarded with **NATIONAL SIRIDHANYA AWARDS-2023** under the category as Best Institution for Millet Production through Teaching, Research and Extension during International Trade Fair on Millets and Organics-2023 organized at Bangalore on 20-22 January 2023.

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

A. Status of establishment of Lab **:** Good

1. Year of establishment : 17-12-2005
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty. (No.)	Cost (Rs.)	Status
1	pH meter	02	43550	Good
2	Conductivity bridge	01	7400	Good
3	Physical Balance	01	12,000	Good
4	Chemical Balance	01	48,900	Good
5	Magnetic stirrer with Hot Plate	01	5500	Good
6	Shaker with DC Motor	01	27,600	Good
7	Hot Air Oven	01	20,000	Good
8	Water Distillation Still	01	48,850	Good
9	Spectrophotometer	01	46,200	Good
10	Flame Photometer	01	38,720	Good
11	Kjeldahl Digestion and Distillation Setup	01	1,67,709	Good
12	LG Refrigerator with Stabilizer and Stand	01	15,970	Good
13	Kanchan Mixer Grinder	01	1800	Good
14	Pusa Digital STFR meter Kit	01	53,400	Good
15	Digital electrical conductivity meter	01	15,845	Good
16	Epson L655 ink tank printer	01	29568	Good
17	Dell inspiron computer	01	59708	Good
18	Electronic balance	01	46080	Good
19	Double distillation Unit	01	94663	Good
20	Double beam Automatic absorption spectrophotometer (AAS)	01	2195540	Good

21	Water softner	01	15600	Good
22	Computer, laptop and other accessories	01	180000	Good
23	Visible spectrophotometer	01	97,940	Good
24	PC link software for spectrophotometer	01	49,560	Good
25	Micro controller based flame photometer	01	64900	Good
	Total		32,19,294	

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	9779	9374	3333	2933700
Water Samples	8059	7736	2621	2417700
Plant samples				
Manure samples				
Others (specify)				
Total	**17838**	**17110**	**5954**	**5351400**

C. Details of samples analyzed: 2023

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	707	650	645	2,63,400
Water Samples	298	248	246	
Plant samples				
Manure samples				
Others (specify)				
Total	**1005**	**898**	**891**	**2,63,400**

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.	28.03.2017	**--**
2.		

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

	During 2021	During 2022	Cumulative progre (Total)
Samples analyzed (No.)	168	100	268
Farmers benefited (No.)	125	98	223
Villages covered (No.)	15	13	28

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	-	210	240	261	261
Mobile Soil Testing Kit	-	13	98	100	100

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No	Media coverage (No.)
	50	50	-	-	1	1

PART XII. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Integrated crop management in green Chilli (*Capsicum annuum* L.)	10	75	1,06,500	1,55,940
			B:C - 2.36	B:C - 2.91
Integrated crop management in Tomato	20	80	1,44,620	2,20,480
			2.37	3.15
Assessment of Soil test based nutrient recommendations adopted by farmers of cluster villages of Tiptur Taluk, Tumkur district	289	60	Farmers were experienced decrease in cost of cultivation by 10-15% and increased crop yield by 15-20 %.	
Community based Monitoring and management of Red palm weevil and Rhinoceros beetle in coconut through pheromone traps	995	92	Trapping and destruction of rhinoceros beetle through pheromone traps resulted in the reduction of leaf and spindle damage by 22.5 and 55, respectively. Use of pheromone trap for red palm weevil was found to effectively reduce the palm damage by 65% and 78% dead palms.	
Processing and Branding of Tamarind Value added products	2	40	1.000	5.200
			B:C - 1.25	B:C - 2.08

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

01. **Title:** Community based Monitoring and management of Red palm weevil and Rhinoceros beetle in coconut through pheromone traps

Background –Red palm weevil *Rhynchophorusferrugineus* and Rhinoceros beetle *Oryctes rhinoceros* are the major pests inflicting severe damage to coconut palms. Due to ineffectiveness of the current management practices to control the two important pests on coconut, a study was conducted to

know the attractiveness of red palm weevil and rhinoceros beetle to aggregation pheromone through community approach for monitoring and management to reduce the pest damage in the 12 villages of Tiptur taluk where the pest problem observed.

In order to curtail the outbreak from spreading to neighbouring coconut growing areas and to reduce the pest population in affected villages, KrishiVigyan Kendra Konehally, Tumkur planned to manage the outbreak with the financial assistance from government of ordeaux under Integrated Farming system Demonstration project under RKVY.

Intervention: The pheromone technology for mass trapping of Rhinoceros Beetle (RB) and Red Palm Weevil (RPW) on coconut palms developed by Bio-Control Research Laboratories (BCRL), a division of the Pest Control-India, were used for managing the pest problem. The indigenous technology is low cost and is more effective than chemical pest control methods.

Technology-Sustained mass trapping through community approach over large areas appear to have the potential to bring down the population density of these noxious pests, particularly in parts where per capita land holdings are small.

Pheromone technology demonstrated

Sl. No.	Name of the village	No. Of farmers covered	Coconut Area covered (ha)	Average No. Of Red palm weevil trapped	Average No. Of Rhinoceros beetle trapped
1	Ramanahally	105	42	1365	630
2	Lakkihally	137	55	1644	822
3	Patrehally	110	44	1320	660
4	Mattihally	146	58	1168	438
5	Vittalapura	50	20	600	200

6	Nagatihally	58	23	580	232
7	Bommalapura	101	40	250	150
8	Bagavala	75	30	225	100
9	Margondanahally	64	25	650	180
10	Gudigondanahally	76	30	552	120
11	BommalpuraGollarahatti	23	10	150	75
	Total	**995**	**322**	**8504**	**3607**

Impact- The pheromone technology studies revealed that mass trapping is more effective when combined with sanitation in coconut farms. RPW is a pest, which affects coconut palms adults of RPW lay eggs in wounds along the trunk, through which they gain entry and feeding by large number of larvae cause the death of trees. It is very difficult for farmers to detect early stages of RPW infestation and they become aware of the problem only when the tree is about to die."

Trapping and destruction of rhinoceros beetle through pheromone traps resulted in the reduction of leaf and spindle damage by 22.5 and 55, respectively. Use of pheromone trap for red palm weevil was found to effectively reduce the palm damage by 65% and 78% dead palms.

The impact of biological control was clearly evident in the pest affected villages after six months. Where on an average 8504 Red palm weevil and 3607 Rhinoceros beetle were trapped and further this pest were destroyed. In the days where hazardous pesticides usage is becoming a matter of concern, this success of biological control as an alternate system, gives impetus to sustainable agriculture.

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

PART XIII – LINKAGES

13A. Details of linkage with ATMA

Coordination activities between KVK and ATMA :

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	Taluk and district level technical advisory committee	4	-	-
02	**Research projects**	-	-	-	-
		-	-	-	-
03	**Training programmes**	Improved production particles in field and horticulture crops	6	2	-
04	**Demonstrations**	Seed treatment, IPDM etc.	7	3	-
		-	-	-	-
05	**Extension Programmes**	-	5	2	-
	Kisan Mela	-	-	-	-
	Technology Week	-	-	-	-
	Exposure visit	-	-	-	-
	Exhibition	World soil day	3	1	-
	Soil health camps	Animal health camps	3	2	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	-	-	-	-
06	**Publications**	-	-	-	-
	Video Films	-	-	-	-
	Books	Improved production particles in field and horticulture crops			Distributed to department and farmers
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-

07	**Other Activities** (Pl.specify)	-	-	-	-
	Watershed approach	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development				

13B. List of special programmes undertaken by the KVK which have been financed by State Government/University/National Horticultural Mission/ RKVY/ National Fisheries Development Board/Other Agencies

S. No.	Name of organization	Name of Programme	Nature of linkage	Funds received in Rs.	Expenditure during the reporting period in Rs.	Remarks
1	**KVK, Konehalli, Tiptur, Tumakuru**	NMSA- National mission for sustainable agriculture	GOK	40,00,000	40,00,000	-
2		Village Adoption Programme	UAS, Bangalore	2,00,000	2,00,000	-

13C. Kisan Mobile Advisory Services :

Month	No of Advisories	No. of Text messages sent	No. of voice messages sent	SMS/voice calls sent (No.)						Total SMS/Voice calls sent (No.)	Farmers benefitted (No.)
				Crop	Livestock	Weather	Marketing	Awareness	Other enterprises		
January	1	Text	1	0	0	0	0	0	1	20350	20350
February	1	Text	1	0	0	0	0	0	1	20350	20350
March	2	Text	2	0	0	0	0	0	2	20350	20350
April	3	Text	3	0	0	0	0	0	3	20350	20350
May	3	Text	3	0	0	0	0	0	3	20350	20350
June	3	Text	3	3	0	0	0	0	0	20350	20350
July	3	Text	3	2	0	0	0	1	0	20350	20350
August	2	Text	2	1	0	0	1	0	0	20350	20350
September	2	Text	2	1	0	0	0	1	0	20350	20350
October	3	Text	3	2	0	0	1	0	0	20650	20650
November	2	Text	2	1	0	0	0	1	0	20750	20750
December	1	Text	1	0	0	1	0	0	0	20850	20850

Total	**26**		**26**	**10**	**0**	**1**	**2**	**3**	**10**	**20850**	**20850**

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
			6						

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermicompost	2.74	-	4110	-

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Cow	HF	Milk	4431liters	-	140582	-
2	Cow	HF	Sale	2	-	85000	-
3	Sheep	Local	Sale	4	-	47500	-

14E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January	10	1	-
February	40	12	-
March	12	4	-
April	20	5	-
May	25	2	-
June	15	5	-
July	26	3	-
August	36	3	-
September	108	18	-
October	72	12	-
November	13	2	-
December	15	2	-

14F. Database management

S.No	Database target	Database created
1. official letters	340	360
2. Technical reports	30	35

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

(a) Rain Water Harvesting Structure : Nil

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

(b) Micro-irrigation systems : Nil

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

PART XV – SPECIAL PROGRAMMES

15.1 ParamparagathKrishiVikasYojana (PKVY) : Nil

Sl No.	Name of cluster village	Initial soil fertility status (Average of cluster village)				Facilities created for organic source of manure	Name of Crops cultivated	Variety	Organic inputs applied including bio-agents and botanicals treatment	Yield (q/ha)	Economics	
		Aval. N	Aval. P	Aval. K	OC %						Cost of cultivation (Rs/ha)	Net returns (Rs/ha)
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	432	32,600	55,850	24	1129
2					

15.3 Fertilizer awareness programmeorganised : Nil

State	Name of KVK	Details of Activities/programmeOrganised	Number of Chief Guests	No. of Farmers attended program	Total participants

15.4 Seed Hub : Nil

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

15.5 CFLD on Oilseeds:

Sl.No.	Crop	Varieties demonstrated and check	Allocated		Implemented	
			Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
1	Integrated crop management in Redgram	BRG -5	10	25	10	25
	Total		**10**	**25**	**10**	**25**

15.6 CFLDs on Pulses:

Sl.No.	Crop	Varieties demonstrated and check	Allocated		Implemented	
			Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
1	Integrated crop management in castor		10	25	10	25
	Total		**10**	**25**	**10**	**25**

15.7 Krishi Kalyan Abhiyan (Aspirational districts): Nil

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

15.8 Micro-Irrigation: Nil

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

15.9 Tribal Sub-Plan (TSP): Nil

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		OFT (No of Technologiess)	Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings /Demos	No. of Farmers	No. of Trainings /Demos	No. of Women Farmers	No. of Trainings /Demos	No. of Youths	No. of Trainings /Demos	No. of Ext. Person		On-farm trials	Frontline demos	Mobile agro-advisory to farmers						

15.10 SCSP

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		OFT (No of Technologiess)	Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures samples (Number)
No. of Trainings/Demos	No. of Farmers	No. of Trainings/Demos	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person		On-farm trials	Frontline demos	Mobile agro-advisory to farmers						

6	278	1	47	-	-	-	-	-	-	-	-	-	-	-	-	-	24

15.11 NARI: Nil

Activity	Achievement	
	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)		
FLDs – Bio-fortified Crops (activity in no. of Unit)		
FLDs – Value addition(activity in no. of Unit/Enterprise)		
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
Trainings		
Extension Activities		

15.12 KVK Portal

No. of Events added by KVKs	No. of Facilities added by KVKs	Filled Report on Package of Practices (Y/N)				Filled Profile Report (Y/N)							
		Crop	Livestock	Fisheries	Horticulture	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish
290	09	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	N

15.13 KSHAMTA : Nil

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

15.14 DFI

Sl	District	Taluks	Villages	Farmers (No.)	Average Benchmark Income (Rs/year)	Crops/ enterprises	KVK Interventions	Additional Net Income generated due to KVK interventions (Rs/year)	Total income of farmer (Rs/year)
1	Tumakuru	Turuvekere	Melinavalagerehalli	1	4,40,375	Finger millet, Redgram, Coconut+ banana, Arecanut+ beans, Jersy-HF	New technologies	6,84,425	8,31,425
2	Tumakuru	Tiptur	Vithalapura	1	1,20,320	Finger millet, Red gram, Coconut, Cows (HF)	New technologies	1,66,600	2,17,650
3	Tumakuru	Gubbi	Belavatha	1	2,82,000	Finger millet, Paddy ,Coconut, Arecanut, Tomato and Beans, Cows (HF)	New technologies	4,18,000	5,50,360
4	Tumakuru	Tiptur	Vithalapura	1	1,72,800	Finger millet, Red gram, Castor, Vegetables& GLV, Coconut, Cow (HF), Korle value addition	New technologies	2,72,000	3,33,500
5	Tumakuru	Gubbi	Muganahunse	1	1,92,000	Green gram, Redgram, Cowpea, Mango, Coconut , Baffalo ,Cow, Intercrop with Coconut+ Cowpea , Inter Crop Mango + Green gram	New technologies	2,48,000	3,98,200
6	Tumakuru	Kunigal Tq	Gunnagere	1	329650	Finger millet, Coconut , Arecanut	New technologies	592000	739400
7	Tumakuru	Tiptur	Karikere	1	3,35,400	Ragi, Green gram, Redgram, Areca nut, Coconut, Baffalo	New technologies	475000	741000
8	Tumakuru	Kunigal Tq	Shettikere	1	663000	Ragi, Paddy, Coconut, Areca nut	Areca nut + Pepper intercropping	1499000	2021000
9	Tumakuru	Kunigal Tq	Gunnagere	1	282800	Finger millet, Paddy , Coconut , Arecanut ,Poultry birds	New technologies	379600	591600
10	Tumakuru	Kunigal Tq	Ippadi	1	687875	Sericulture, Coconut, Mango, Sheep	New technologies	1151000	1733500
11	Tumakuru	Turuvekere	Kurubara halli,	1	2,012,000	Coconut, Areca nut , Banana, VCO	New technologies	1,669,000	3,205,000
12	Tumakuru	Tiptur	Chikkahonnavalli	1	299800	Ragi, Green gram, Redgram, Areca nut, Coconut	New technologies	406000	513180

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

16.1 Farmers feedback on performance of crop varieties/hybrids

Sl. No.	Crop varieties/hybrids assessed/ demonstrated	Farmer's feedback
1	Demonstration of cowpea variety KBC – 9 as on intercrop in coconut garden	Growing of cowpea in coconut garden reduces the weeds and enhances the soil fertility status and addition income to the farmers
2	Demonstration of Inter – cropping of Hebbal Avare (HA-5) in younger Arecanut gardens	Growing of Hebbal avare in younger arecanut garden reduces the weeds and enhances the soil fertility status and addition income to the farmers
3	Demonstration of Integrated crop management in Arka Gagan green Chilli	High yield less incidence of leaf curl diseases
4	Demonstration of paddy variety RNR 15048 for higher productivity	Grain shattering percentage was nil

16.2 Farmers feedback on performance of agronomic practices

Sl. No.	Agronomic practices	Farmer's feedback

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

Sl. No.	Pest and disease management in crops	Farmer's feedback

16.4 Farmers feedback on performance of farm machinery technologies : Nil

Sl. No.	Farm machinery technologies	Farmer's feedback

16.5 Farmers feedback on performance of livestock and fisheries technologies : Nil

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

PART XVII - FINANCIAL PERFORMANCE

17A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute (ICAR)	Canara Bank	Tiptur	699	SB	0699101022252	572015202	CNRB0000699
With KVK (Revolving fund)	Canara Bank	Tiptur	699	SB	0699101025795	572015202	CNRB0000699
DAESI	Canara Bank	Tiptur	699	SB	0699101037387	572015202	CNRB0000699

17B. Utilization of KVK funds during the year 2022-23 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	144.60	144.60	144.60
2	**Traveling allowances**	2.00	2.00	2.00
3				
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.23	2.23	2.23
B	POL, repair of vehicles, tractor and equipments	2.00	2.00	2.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1.50	1.50	1.50
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	1.50	1.50	1.50
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	6.50	6.50	6.50
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.95	0.95	0.95
G	Training of extension functionaries	0.50	0.50	0.50
H	Extension activities	1.61	1.61	1.61
I	FFS	0.00	0.00	0.00
J	EDP	0.45	0.45	0.45
k	Soil, Plant & Water Testing Laboratory	1.00	1.00	1.00
l	Maintenance of buildings	1.50	1.50	1.50
m	Nutrigarden	0.26	0.26	0.26
n	conference on extension	0.00	0.00	0.00
o	Library	0.50	0.50	0.50
TOTAL (A)		**20.50**	**20.50**	**20.50**
B. Non-Recurring Contingencies				
1	**Works**	-	-	-
2	**Vehicle** (Four wheeler/Two wheeler, please specify)	-	-	-
TOTAL (B)		**-**	-	**-**
C. REVOLVING FUND		-		-
GRAND TOTAL (A+B+C)		**167.1**	**167.1**	**167.1**

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

Year	Opening balance as on 1st January	Income during the year	Expenditure during the year	Net balance in hand as on 31st December of each year
January to December 2021	259940	2629375	2514343	374972
January to December 2022	358272	1738755	1670976	426051
January to December 2023	426051	4679934	3959627	1146358

18. Details of HRD activities attended by KVK staff :

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. Govinda Gowda V.	Senior scientist and Head	Short course: STRY workshop	MANAGE, Hyderabad	01/08/2023 to 02/08/2023
Mr. Manoj H	Scientist(Plant Protection)	Refresher training programme	DE, UAS, Bangalore	12/07/2023 to 14/07/2023
Dr. Tasmiya kowsar	Scientist (Agronomy)	Refresher training programme	DE, UAS, Bangalore	12/07/2023 to 14/07/2023
Mr. Darshan M E	Scientist (Agril. Extension)	Refresher training programme	DE, UAS, Bangalore	12/07/2023 to 14/07/2023
Dr. Nityashree K	Scientist (Home Science)	Refresher training programme	DE, UAS, Bangalore	12/07/2023 to 14/07/2023
Dr. Keerthi Shankar K	Scientist (Horticulture)	Refresher training programme	DE, UAS, Bangalore	12/07/2023 to 14/07/2023

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

19.1. Inputs sold at KVK Sale counter

Sl. No.	Inputs sold	Quantity (K.G.)	Amount (Rs.)
1	Trichoderma	800	104000
2	Pseudomonas	750	97500
3	Arka microbial consortia	200	26000
4	Compost culture	40	5200
5	vam	50	9500
6	Azolosperilam	100	13000
7	Arka aktino plus	175	26250
8	Rhizobium	40	5200
9	Aspergillus	70	9100
10	Honey box	4	9996
11	Honey	150	45000
12	Fodder COFS 31	400	200000
13	Pulse magic	60	16500
13	Banana special	70	13650
14	Mango special	70	13650
15	Vegetable special	70	13650
16	Ginger special	10	2500
17	Ragi malt	164	49200
16	siridhanya malt	160	64000
17	Koranda Pickle	40	8000
18	Mango Pickle	5	1000
19	Amla candy (pkt)	65	650
20	Amla adike (pkt)	5	200
21	Amla Pickle (pkt)	1	300
22	coconut climbing machine	1	3950
23	Ragi-ML-365 (Kg)	300	17550
24	Ragi -MR-6 (Kg)	350	20503
25	Ragi -KMR-630 (Kg)	100	5650
26	Cow pea KBC-9 (Kg)	50	9600
27	Avare HA-4 (Kg)	200	37,000
28	Navane (Kg)	45	2700
29	Book samagra tootagarike kiypidi	20	5000

19.2.Millets processed at KVK millets processing unit.

#	*Particulars*	*Qty. (in. kg)*	*Amount (Rs.)*
1	Saame	1071	5355
2	Haraka	1274	6370
3	Korale (Brown top millet)	180	350
4	Navane	70	900
Total		**2595**	**12975**

Farmer Field School : Integrated Pest and Disease management in Redgram

Name of the technology	Area (ha)	No. of farmers
Integrated Pest and Disease management in Redgram Use of Redgram variety BRG- 5 Spray with pulse magic Integrated Pest and Disease management	12.00	30

Activities	Number	No. of farmers
Trainings	6	160
Extension activities	4	110

Data on other parameters		
Parameter with unit	**Demo**	**Check**
Pod borer incidence (%)	6.65	35.35
yield (q/ha)	9.52	7.21
Gross cost (Rs./ha)	33850	35500
Gross return (Rs./ha)	77100	58400
Net returns (Rs. ha)	43250	22900
B.C. Ratio	2.27	1.64