UNIVERSITY OF AGRICULTURAL SCIENCES, RAICHUR
ICAR-KRISHI VIGYAN KENDRA RAICHUR, KARNATAKA

ANNUAL REPORT- 2022

(FOR THE PERIOD FROM 01 January, 2022 TO 31 December, 2022)



KVK Address

Senior Scientist and Head
ICAR-KRISHI VIGYAN KENDRA
University of Agricultural Sciences Campus,
R A I C H U R – 584 104 (Karnataka)
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Host Organization

GENERAL INSTRUCTIONS

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

- Annual report is the most important document for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care needs to be given by each KVK while preparing the report.

- Period of Report is from 01 January, 2022 to 31 December, 2022.

- Action photographs with relevant captions covering all OFTS/FLDS/TRAINING/EXTENSION activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report. A part from this, soft copy of the activity wise photos may be submitted in JPEG format.

- Prepare Summary tables carefully tallying with the relevant portions of the main report on all aspects.

- Retain the blank column and rows as such and do not merge the cells. Please specify NIL, wherever not applicable or details are not available.

- Check the names of varieties and hybrids and specify in the report.

- Check the units and totals of each data table.

- Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data should be avoided.

- Success stories/case studies should be supported with data tables and graphs. Without photos success stories will not be considered for inclusion in Annual Report of ATARI.

PART I – GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR- KrishiVigyan Kendra P.B. No.329, UAS Raichur Campus,Lingasugur road Raichur – 584 102	08532-220196	08532-220196	pckvkraichur@uasraichur.edu.in kvk.Raichur@icar.gov.in	www.kvkraichur.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, P.B. No.329, UAS Raichur Campus,Lingasugur road Raichur – 584 102	08532-221444	08532-220444	**vc@uasraichur.edu.in**	www.uasraichur.edu.in

1.3. Name of the Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Pralhad Senior Scientist and Head ICAR- KrishiVigyan Kendra P.B. No.329, UAS Raichur Campus,Lingasugur road Raichur – 584 102	-	9480696314	paubhale@gmail.com

1.4. Year of sanction: 22 December 1993

1.5. Staff position as on 31 December 2022

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. Pralhad	Scientist	M	Animal Science	M.V.Sc. Ph.D	68900 - 205500	101100	13.09.2017	**Permanent**	Cat-1
2	Scientist/SMS	Dr. S.N. Bhat	Scientist	M	Soil Science	M. Sc. (Agril) Ph.D (Soil Science)	68900 - 205500	101100	13.07.2020	**Permanent**	GM
3	Scientist/SMS	Dr. Hemalatha, K.J.	Scientist	F	Horticulture	M.Sc. (Horti.) Ph. D	68900 - 205500	89900	20.06.2017	**Permanent**	Cat-1
4	Scientist/SMS	Dr. Shreevani G.N.	Scientist	F	Entomology	M.Sc. (Ent.) Ph.D.	57700-182400	77500	02.08.2018	**Permanent**	ST
5	Scientist/SMS	Er. Veena, T	Scientist	F	Food & Processing Engineering	M. tech.(Food & Processing Engineering)	57700-182400	66800	05.01.2021	**Permanent**	ST
6	Scientist/SMS	**Vacant**	Scientist	-	Agronomy	**Vacant**	-	-	-	**Vacant**	-
7	Scientist/SMS	**Vacant**	Scientist	-	Plant Pathology	**Vacant**	-	-	-	**Vacant**	-
8	Programme Assistant (Computer)	Mr. DevarajNayak	Technical Office	M	Computer	MCA	9300-34800	58600	25.03.2017	**Permanent**	ST
9	Programme Assistant (Lab Tech.)	**Vacant**	Programme Assistant	-	Lab Tech.	**Vacant**	9300-34800	-	-	**Vacant**	-
10	Programme Assistant/ Farm Manager	**Vacant**	Farm Manager	-	Farm Manager	**Vacant**	9300-34800	-	-	**Vacant**	-
11	Assistant	Mr. Channabasava H.	Assistant	M	Assistant	BA	30350-52850	30350	28.10.2021	**Permanent**	Cat-1
12	SS-1	Smt. Sridevi Talawar	Attender	F	Lab Assistant	BA	30350-52850	30350	30.10.2022	**Permanent**	ST
13	Jr. Stenographer	Kum. Sumangalamma. M	Typist/Computer operator	F	Typist/Computer operator	BA	30350-52850	34300	04.12.2017	**Permanent**	2A
14	Driver - 1	Sri. ChanappaAskihal	Driver (H.V)	M	Driver (H.V)	7th	30350-52850	37900	01.04.2017	**Permanent**	2A
15	Driver - 2	Sri. Eshappa Askihal	Driver	M	Driver	7th	30350-52850	53900	06.02.1999	**Permanent**	2A
16	SS-2	Sri. Anjaneya	Cook	M	Cook	SSLC	21400-42000	24050	09.01.2012	**Permanent**	Cat-1

1.6. Total land with KVK (in ha):7.12

S. No.	Item	Area (ha)
1	Under Buildings	0.12
2.	Under Demonstration Units	1.00
3.	Under Crops	6.00
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	1998	660	34.00	1998	660	Completed
2.	Farmers Hostel	ICAR	2011	300	45.00	2011	300	Completed
3.	Staff Quarters	ICAR	2005	6 x 67	25.27	2005	6 x 67	Completed
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	1 NADEP compost pit	ICAR						
	2Azolla Unit	ICAR						
	3Vermicompost pit	ICAR						
	4 Micro Irrigation	ICAR	2018-19					
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							
9	Administrative Building	ICAR	1998	660	34.00	1998	660	Completed
10	Farmers Hostel	ICAR	2011	300	45.00	2011	300	Completed

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero SLX	2011	7.43	197815	Good
Tractor (TAFE)	1999	3.37	-	Bad
Motor bike(Bajaj CT-100)	2005	0.40	56600	Good
Motor bike (Hero Honda Passion Plus)	2009	0.50	58600	Good
Motor bike (Hero Honda Splendor Plus)	2014	Purchased by ICRISAT	64800	Good

C) Lab equipment & AV aids

Name of the equipment	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Computer	2000	95,000	Good	
TV	2002	20,000	Good	
Fax Machine	2004	12,685	Bad	
PA System	2004	31,025	Good	
Computer	2006	39,216	Good	
Digital Camera	2004	19,980	Good	
Laptop	2006	45,000	Good	
LCD projector	2006	57,188	Good	
Fax machine (SCx-452)	2009	15000	Bad	
Laser printer-Lexmark	2009	15000	Bad	
LCD Motorized	2009	24000	Good	
Photo copier(Toshiba)	2009	61000	Bad	
Hi-tech LCD projector	2009	41000	Good	
Computer chair and table	2009	6000	Good	
Sony Handy Cam	2009	184000	Good	
Power sprayer	2010	16000	Bad	
Power Tiller	2011	1,52,500	Good	
Generator	2011	1,88,999	Bad	
Kyocera Mita Taskalfa-180	2012	87,290	Good	
S Type pecok chair	2012	45,000	Good	
Multimedia projector	2012	45000	Good	
6 ½’ Almera 18 gage	2012	23,700	Good	
SONY Tablet (wifi43G)	2012	33988	Good	
Desk top computer	2012	33,570	Good	
UPS	2012	5,240	Good	
Double Distillation Unit	2012	112290	Bad	
Wide Mini-Sub Cell Gt Cell-Horizontal Biorad	2012	87790	Good	
Power Sprayer	2012	16800	Bad	
Spare First And Second Heater For Aqdd 40p-Db Xl-Rsh (Two Nos)	2012	19412	Good	
Glass Door Almara 6 ½ 3nos	2012	31977	Good	
Refrigerated Centrifuge With Accessaries	2012	430236	Good	
Level Master A Laser Guided Land Leveler	2012	425000	Good	
GPS System Hand Held	2012	75000	Good	
Binocular Microscope (Ten Nos)	2012	152468	Good	
Pestle &Morter (Two Nos)	2012	3198	Good	
Cycle altas	2012	3,790	Good	
Anand spiral Separator	2012	12,000	Good	
Susmang AC 2.0 ton capacity	2012	31,965	Good	
Water Cooler 150 Capicity	2012	49,850	Good	
Water Storage tank	2012	7,499.96	Good	
24 ports D-link	2012	3,050	Good	
D-card wireless Accessories	2012	7,500	Good	
Patch Cards	2012	3,000	Good	
D-link Lan Cable	2012	975	Good	
25 LPH Ro water purifier	2013	24,000	Good	
Packing Machine Serana Brand F series	2013	16,490	Good	
SurabeeEssardestoner-cum Grader 298Kg	2013	76,000	Good	
ESSC Electronic Weighting Scale 31 KG	2013	7,300	Good	
BhavaniDerviller paper capacity	2013	56,500	Good	
Anand spiral Separator	2013	12,000	Good	
Stove	2014	4595	Good	
Kirloskar Diesel Pump set	2014	39,000	Good	
Plastic E.V. stabilizer	2015	54,000	Good	
Surabeeessar Machine and cam model	2015	Supplied of	Good	

SESP 8-02		INSIMP		
Wt-140Kg	2015	Supplied of INSIMP	Good	
Three phase-motor	2015	Supplied of INSIMP	Good	
Double pulley	2015	Supplied of INSIMP	Good	
12 inch belt-2 B.type 82No.	2015	Supplied of INSIMP	Good	
Pusa digital STFR meter Kit	2015	52,000	Good	
Samsung Make LED tv	2016	48,500	Good	
Projector	2017		Good	
Laptop	2017		Good	
Printer HP1020 plus	2017		Good	
Color Printer	2017		Good	
AES Lab equipment SWTL	2017		Good	
Desktop	2017		Good	
Printer HP	2017		Good	
Susmang AC 2.0 ton capacity (two)	2018		Good	
LG TV 24 (Four)	2018		Good	
Home appliance for Farmer Hostel	2018		Good	
Xerox machine	2019	91,000/-	Good	
Alkosign board			Good	
Hot plate (make Scientist)			Good	
Hot Air Oven Digital (Make Scientist)			Good	
LP Gas Cylinder (Regulator two)			Good	
Steel Cabinet (18 x 35 x 18)			Good	
LPG Stove			Good	
Fax machine			Good	
Laboratory Table (88x30x36)			Good	
Grinder (Size 100x50mm)			Good	
Laboratory Table (72x30x36)			Good	
Toshiba-E-161 Xerox machine			Good	
Laboratory Table (58x30x36)			Good	
Laboratory Table (58x36x36)			Good	
FGCL 0378 Flame photometer			Good	
FGL-1612 pH Analyser with CL 51B			Good	
FGSL-0177 Scanning visible specto photometer			Good	
FGCM-183 EC TDS analyser with CC-03B & ATC pribe			Good	
Brass samaya			Good	
Laboratory racks (30x 15x9)			Good	
Slated angle racks (6x3x15x5)			Good	
Wash Basin (Orient)			Good	
Duplicating machine (Xerox machine)			Good	
Exhaust Fan			Good	
Laboratory stools			Good	
Software SS inter facing specto meter model SL-l 77			Good	
Demonstration board			Good	

D) Farm equipment and implements

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Nipping machine	2019	1		Good
Bio matric time attendance	2019	1		Good
Segate enternal HDD 1GB hard disk	2019	1		Good
Kodak124cm full HD TV	2019	1		Good
Digital platfram weighing balance machine	2019	1		Good
Palagu 4 feet	2019	1		Good
Palgu 19"	2019	1		Good
Palgu 24"	2019	1		Good
Janta Palgu	2019	1		Good
Kurpi	2019	1		Good

1.8. Details of SAC meeting organized

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
24.01.2023	47	**Dr. Hanumanthappa. M., Honorable Vice Chancellor, UAS, Raichur** • He suggested to have minimum of 3-4 FLDs per Scientist, 4-5 field visits per week, 1 or 2 flagship programmes which are market and income led programmes, KVK market and museum **(Action: All KVK Scientists).** • The problems of the farmers should be noted and the ITKs by the farmers should be noted and presented in the respective technical meetings of their departments **(Action: All KVK Scientists).** • The data acquired by the FLDs and OFTs should be published once in 3 to 4 years and also should apply for KVK award once in 3-4 years **(Action: All KVK Scientists).** • Quality seedlings should be produced by the KVK (Horticulturist) and supplied to the farmers **(Action: Scientist Horticulture).** • The action plans should be discussed with the respective HODs of the department before finalizing and result oriented action plan should be prepared (**Action: All KVK Scientists).** • IFS should be prioritised and programs regarding the same should be carried out by the KVKs **(Action: All KVK Scientists).**		
		Dr. M. K. Naik, Director of Extension, UAS, Raichur • Problems with respect to crops should be answered by all the Scientists; especially bi-monthly meetings should be regular **(Action: KSDA & All KVK Scientists).** • New varieties should be released from UAS, Raichur.		

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
		Breeding programmes should be taken to develop Wilt resistant redgram variety **(Action: Director of Research to engage Breeders for the development of the new varieties).** • Management of chilli flower thrips and wilt, awareness and FLDs regarding this should be taken. Breeding programs should be taken to develop Wilt resistant Chilli variety **(Action: Director of Research to engage Breeders for the development of the new varieties).** • Programmes with respect to doubling farmers' income should be taken **(Action: All KVK Scientists).** • Soil health programmes with respect to composting, vermicomposting, organic carbon and organic waste management, cotton shredder demonstrations should be taken **(Action: Soil Scientist).** • Entrepreneurship development programmes should be taken **(Action: Home Scientist/PFE).** • Soil-nutrient management should be addressed **(Action: Soil Scientist).** • One District One Product development should be emphasized **(Action: All KVK Scientists).** • New crop Cashew introduction in farmers' fields **(Action: Senior Asst. Director of Horticulture).** • Dryland horticulture, Natural farming, Organic farming training programmes should be taken **(Action: Horticulturist & Soil Scientist).** • One Scientist one RSK **(Action: All Scientists of UASR)** • BGD – 103 variety can be taken for CFLDs (Suggested by DE)		
		Smt. Devika, Joint Director of Agriculture, Raichur • Videos prepared from the KVK with respect to Crop		

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
		production, management, Enterpreneurship etc should be forwarded to Raitha Samparka Kendras **(Action: SSH)**		
		Trials by Horticulture department (Suggested by DE ; Action : SADH)		

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
Rainfed area – Cropping in both Kharifandrabi seasons / double cropping	Greengram, Blackgram, Sesamum, Bajra, Sunflower, Sorghum Bengalgram, Safflower, Wheat
Rainfed area – Redgram cropping	Redgram, Redgram + Bajra, Redgram + Groundnut, Redgram + Greengram, Redgram + Sesamum, Redgram + Sorghum
Rainfed area – Rabi jowar and cotton cropping	Rabi Jowar, Cotton
Rainfed area – Cropping in kharif season	Bajra, Sorghum, Groundnut, Sunflower, Sesamum, Setaria Horse gram, Niger
Canal irrigated area – Cropping in all season	Bajra, Sorghum, Paddy, Sunflower, Groundnut, Wheat, Bengalgram, Cotton Chilli, Mustard
Well irrigated area – Cropping of horticultural and commercial crops	Fruits, Vegetables, Plantations, Flowers, Sugarcane, Cotton, Sericulture
Tank irrigated area – Paddy cropping	Paddy

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

S. No	Agro-climatic Zone	Characteristics
1	North-Eastern Dry zone	The North Eastern Dry Zone, spread over 17,626 sq.km., accounts for 9.26 per cent of the total geographical area (1,91,791 sq.km.) of Karnataka State. It is situated between 15° 57' and 17° 36' north latitude and 76° 6' and 77°33' east longitude. This zone comprises 8 taluks (Afzalpur, Chittapur, Gulbarga, Jewargi, Sedam, Shahapur, Shorapur and Yadgir) of Gulbarga district and 3 taluks (Deodurga, Manvi, Raichur) of Raichur district. The zone is primarily agrarian in character with about 75.33 per cent of its geographical area under cultivation.

S. No	Agro ecological situation	Characteristics
1	Rainfed area – cropping in both kharif and - rabi seasons / double cropping	This situation extends 6000 ha in Deodurga, 1500 ha in Manvi, 1150 ha in Raichur talluks of Raichur district. In this situation the medium deep black and red clay loamy soils are predominant.
2	Rainfed area – Redgram cropping	This farming situation covers 7730 ha in Deodurg, 6290 ha in Manvi and 8150 in Raichur taluks. Soils in this situation mainly represented by medium to deep black soils and clay loam of red soils.
3	Rainfed area – rabijowar and cotton cropping	In this farming situation 37616 ha in Deodurga, 45792 ha in Manvi and 34108 ha in Raichur. This situation involves predominantly deep black soils.
4	Rainfed – cropping in kharif season	This situation extends 44040 ha in Deodurga, 18732 ha in Manvi and 22242 ha in Raichur talluks. This situation predominantly comprises of shallow black soils and red sandy loams.
5	Canal irrigated area – cropping in all season	In this situation irrigation water is available from canals of TBP and UKP areas in the talluks of Manvi (40000 ha), Deodurga (2319 ha) and Raichur (19500 ha). In this situation both red sandy loam and deep black soils predominant.
6	Well irrigated area – cropping of horticultural and commercial crops	In this situation area extend Deodurga (1200 ha), Manvi (2668 ha) and Raichur (2250 ha). In this situation soils are mainly red sandy loams and shallow to medium black soils.
7	Tank irrigated area – paddy cropping	There are good number of tanks mainly in the taluks of Raichur and Deodurga. Under this situation paddy is the main crop in Kharif season. The second crop of either paddy or groundnut is taken in rabi/summer if sufficient water is available.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Black soils	The shallow and medium black soils are grey to deep black in colour (mostly pellustert) clay to clay loam in texture. They contain lime nodules and the base saturation is high with medium to high water retaining capacity. The Cation Exchange Capacity (CEC) is fairly high ranging from 50-70 me/100g. The silica sesquioxide ratio (SiO_2/R202) is around 3.5	60%
2	Gravelly red soils	Light textured soils having low organic carbon content and low to medium, phosphorus and potash status. They contain low water retention capacity. Soils are grouped in alfisols.	30%
3	Alluvial soils	These soils are formed due to transportation and deposition through river water on the river banks. In texture, they vary from drift sand to loam and stiff clay. There is no marked differentiation in the horizons and the profiles are often characterized by the absence of stratification. The colour of these soils is generally gray. They are neutral to alkaline in reaction, moderate to high in CEC and bases. They are found on the banks of Tungabhadra and Krishna rivers in this zone.	10%

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

S. No.	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1.	Paddy	230507	1134492	4922
2.	Sourghum	67190	97634	1453
3.	Maize	1456	4605.1	3163
4.	Bajara	45490	54490	1198
5.	Wheat	155	124	800
6.	Millets	902	333.6	370
7.	Redgram	138378	76108	570
8.	Bengalgram	98514	73886	750
9.	Mouthbeen	190	245	1289
10.	Greengram	178	53.4	300
11.	Groundnut	47963	61925	1291
12.	Sesamum	655	1092	1667
13.	Sunflower	9078	8560	943
14.	Ricinus	122	472	3869
15.	Mustard	350	70	200
16.	Safflower	210	152	724
17.	Cotton	153096	391746	435
18.	Sugarcane	1234	20400	95

** (Source: Department of Agriculture-2022-23)*

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

S. No.	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1.	Mango	1402	11960	**9**
2.	Pomegranate	1784	22080	**12**
3.	Fig	35	248	**7**
4.	Lime	279	6470.95	**23**
5.	Mosambi	336	7746	**23**
6.	Guava	233	5396	**23**
7.	Sapota	54	711	**13**
8.	Custard apple	61	594	**10**

S. No.	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
9.	Banana	70	1613	**23**
10.	Watermelon	210	9221	**44**
11.	Tomato	1291	47659	**37**
12.	Onion	5239	106637	**20**
13.	Green chilli	1110	13187	**12**
14.	Dry chilli	7376	15243	**2**
15.	Cucumber	326	4874	**15**
16.	Ridge gourd	178	1526.3	**9**
17.	Brnijal	288	8143	**28**
18.	Ladies Finger	127	2198.8	**17**
19.	Papaya	432	26175	**61**

**(Source: Department of Horticulture 2021-22)*

2.5. Weather data

Month	Max.T (°c)	Min.T (°c)	Rain fall (mm)	Rainy Day	Bright Sun shine Hrs (Hrs/Day)	Max RH (%)	Min RH (%)
January	31	16	1.6	0	5.9	77	33
February	33	17	0.0	0	8.2	69	24
March	38	21	10.6	1	7.7	59	19
April	39	24	12.2	1	6.4	60	31
May	39	24	86.4	3	5.4	68	33
June	36	22	16.0	2	3.8	76	38
July	31	21	184.4	14	2.5	87	62
August	31	20	160	12	3.9	88	62
September	31	20	206.6	6	4.6	88	64
October	30	19	173.4	8	5	88	59
November	30	19	0.4	0.0	5.2	79	43
December	30	17	13.4	3.0	4.8	81	44
	33.4	19.9	865.0	50.0	5.3	77	43

**(Source: Department of Horticulture 2021-22)* Unit: Area in Hectares, production in tonnes and yield in kg/ha,Cotton in Bales, Sugarcane in Tonnes

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

3. Category	Population	Production	Productivity
Cattle			
Crossbred	11293	Milk-12000t/year	Milk-5.674kg/day/animal
Indigenous	400152	Milk-67000t/year	Milk-2.351kg/day/animal
Buffalo	213058	Milk-49000t/yearCara beef-79t/year	Milk-2.489kg/day/animal Cara beef-112kg/year/animal
Sheep			
Crossbred	237	Mutton-433t/year	Mutton-14kg/year/animal
Exotic	25		
Indigenous	560734		
Goats	382253	Milk-4000t/year Chevon-118t/year	Milk-0.090kg/day/animal Chevon-15kg/year/animal
Pigs			
Crossbred	Nil		
Indigenous	16295	Pork-55t/year	Pork-45.61kg/year/animal
Rabbits	94		
Poultry			
Hens	374446	Eggs-933lakh/year (66 lakh desi& 867 lakh improved) Chicken-144t/year	250 eggs/improved layer/year Chicken-1.61kg/year/animal
Desi	-	-	-

Improved	-	-	-
Ducks	-	-	-
Turkey and others	-	-	-
Fish	500 ha	4129 M tonnes of fish prod'n.	
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

Information on livestock status (19th census)

Sl	Taluks	Milch Animals						Draught Animals	Sheep	Goats	Poultry Birds	Poultry Farms	Piggery
		Cows			Buffaloes								
		L	UP	E	L	UP	E						
1	Raichur	59423	291	-	21539	-	-		129897	48866	104074	-	5630
2	Manvi	65140	1173	-	33250	-	-		85318	48915	59485	-	2505
3	Sindhanoor	76256	24	-	17748	-	-		114378	70071	58444	-	1272
4	Lingsugur	85012	2238	-	21195	-	-		215323	85417	87891	-	3705
5	Deodurga	53132	18645	-	43125	-	-		102463	28931	62794	-	960
Total		336753	22371		136864				647379	281700	372688		14072

***(Source: Department of Animal Husbandry)**

Note:

- L=Local UP=Upgraded E=Exotic
- 36 and 40 % of Cows and Buffalos respectively are upgraded and others are local
- 65 % of Milch animals are Cows

Category	Area	Production	Productivity
Fish	Nil	Nil	Nil
Marine	Nil	Nil	Nil
Inland	Nil	Nil	Nil
Prawn	Nil	Nil	Nil
Scampi	Nil	Nil	Nil
Shrimp	Nil	Nil	Nil

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

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

2.8 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Sindhanur	Sindhanur	Raitanagar Camp	Four Years	Paddy	Effect of Nano N fertilizer on growth and yield of paddy	Integrated Nutrient Management
2.	Sirwar	Sirwar	Sirwar	Four Years	Cotton	Effect of Nano N fertilizer on growth and yield of cotton	Integrated Nutrient Management
3.	Sirwar & Lingasugur	Sirwar & Lingasugur	Raitanagar Camp & Adavibhavi	Four Years	Blackgram	Assessment of blackgram varieties as alternate crop in paddy fallows	Varietal evaluation
4.					Poultry bird	Assessment of dietary supplements of fresh and dry azolla on the performance of backyard poultry bird	Varietal evaluation
5.	Raichur		Jambaladinni	First Year	Paddy	• Deterioration of soil physical condition, especially soil structure & porosity • 100 % of tail end farmers experience shortage of water & water is not available at right time in 100 % cases • High incidence of BPH (70 -80 %)	Integrated Nutrient Management
6.					Paddy	• Excess water usage leads decline in yield • Saline, alkaline & water logging problems • Increase in pest & disease population	Water management (AWD)
7.			Muranpur	First Year	Foxtail millet	• Use of Local variety • low yields	Introduction of New variety
8.	Devadurga	Alkod	Alkod	Fourth Year	Groundnut	• Pest and diseases (PBND, Spodoptera, leaf miner, sucking pests ,leaf spot and collar rot)	Integrated Pest Management
9.	Raichur	Kalmla	Kalmla	First Year	Chickpea	• Farmers still grow local variety (20-25%) • In 80% situations, seeds are not treated • Pod borer (12 %) & wilt in 30-40%	Introduction of New variety

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
						situations • poor flowering, pod setting , moisture stress & imbalanced nutrient supply (75-85 %)	
10.	Raichur		Markam dinni	First Year	Chilli	• Indiscriminate use of chemical pesticides for management of thrips, mites, Spodoptera litura Fab and wilt	Integrated Pest & Disease Management
11.	Raichur		Markam dinni	First Year	Brinijal	• Indiscriminate use of chemical insecticides to manage Shoot & fruit borer	Integrated Pest Management
12.	Raichur	Chandrabanda	Palkamdoddi/ Burdipad	First Year	Tomato	• Inappropriate management of Pest and diseases (pinworm & early blight) through chemicals	Integrated Pest & Disease Management
13.	Raichur	Chandrabanda	Mandalagera	Fourth Year	Ridgegourd	• Fruitfly incidence (30 %) • Indiscriminate use of insecticides	Integrated Pest Management
14.	Raichur	Shaktinagar	H. Thimapur	First Year	Guava	• In appropriate management of nematodes (velum) • Inorganic management	Integrated Nutrient Management
15.	Devadurga	Gabburu	Amarapur	First Year	Chilli	• Seedling wilt (90%) • Unscientific management practices (spraying instead of drenching at moist stage) • Use of more combination and high dosage of chemicals	Integrated Nutrient Management
16.	Raichur	Chandrabanda	Yapaladinni	First Year	Mango	• Lack of knowledge of pruning techniques • Poor water (excess irrigation during flowering stage) management • Micro nutrient deficiency (Zn, Bo, Mg) • Poor management of pest and diseases (fruitfly-48%, leaf hopper-75% and powdery mildew-20%)	Integrated Nutrient Management
17.	Lingasuguru	Lingasuguru	Lingasuguru	Third Year	Pomegranate	• Reduction in the area of pomegranate due to high cost of cultivation • Unscientific cultural operations (spraying ehrel and pruning) & Unscientific BB management practices	Integrated Nutrient Management

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
18.	Raichur	Rajalabanda	Elebichali	First Year	Betelevine	• Phytophthera wilt incidence (60.75%) • Reduction in area • Poor water management practices • Excessive application of chemicals	Integrated Nutrient Management
19.	Devadurga, Manvi & Raichur	Deodurg, Manvi & Kalmala	Deodurg, Manvi & Kalmala	Third Year	Buffaloes	• Decreased milk production due to summer stress • Delayed estrous	Integrated Disease Management
20.	Devadurga, Manvi & Raichur	Devadurga, Manvi & Devasugur	Devadurga, Manvi & Devasugur	Third Year	Cows	• Subclinical mastitis, • Reduction in milk yield • Thelitis, sour milk	Integrated Disease Management
21.	Devadurga, Manvi & Raichur	Devadurga, Manvi & Devasugur	Devadurga, Manvi & Devasugur	Third Year	Buffaloes	• Anestrous, poor exhibition of heat signs (Silent heat). Repeat breeding	Integrated Disease Management
22.	Devadurga, Manvi & Raichur	Devadurga, Manvi & Devasugur	Devadurga, Manvi & Devasugur	Third Year	Sheep & Goat	• Non availability of diversified fodder crops to meet requirements of balanced forage feeding. • Lack of year round green fodder	Integrated Nutritional Management
23.	Devadurga	Alkod	Adakalagudda	Forth Year	Solar Drier	• Unhygienic way of drying of Red Chillies • Discolouration of chilli fruits due to use of tarpoulin	Cost reduction
24.	Devadurga	Gabbur	Gabbur	First Year	Paddy	• Burning of paddy straw, Time consuming, High labour cost, • Transportation problem, Palatability	Cost reduction
25.	Raichur	Kadagammadoddi	Adakalagudda	First Year	Portable Fertilizer feeder	• Labour intensive, time consuming & drudgery. • Wastage of fertilizer in broadcasting & less fertilizer use efficiency.	Cost reduction

2.9 Priority thrust areas

S. No	Thrust area
1.	Double cropping system
2.	Integrated Nutrient management
3.	Integrated Pest Management
4.	Integrated crop management
5.	Organic Farming
6.	Water Conservation
7.	Fodder Production
8.	Drudgery reduction & Mechanization
9.	Value Addition & Marketing
10.	Post-harvest Technology
11.	Climate resilient agriculture
12.	Dry land Technologies
13.	Health & Nutrition
14.	Farm waste management
15.	Income generating activities
16.	Crop diversification
17.	Integrated dairy management in cattle
18.	House fly menace in poultry sheds
19.	Fodder production, preservation, enrichment and nutrition management
20.	Nutritional security through Nutrition garden
21.	Drudgery reducing tools in farm operations
22.	EDP on Jaggery production with different flavours

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	16	16	21	21	210	210

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
125	**113**	**3750**	**3842**	20	14	600	490

Training (Extension personnel)				Training (sponsored)			
5				6			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
5	**3**	**200**	**135**	20	34	800	1640

Training (Vocational)				Extension Programmes			
7				8			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
5	**7**	**150**	**210**	1500	1348	7000	7866

Seed Production (Q)		Planting material (Nos.)	
9		10	
Target	Achievement	Target	Achievement
40	2.0	-	-

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
11		12	
Target	Achievement	Target	Achievement
-	-	-	-

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
500	**415**	**350**	**317**	25	41	10000	27800

3.B1. Abstract of interventions undertaken

Sl. 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
													No. / Kg
1.	Integrated Nutrient Management	Paddy	Effect of Nano N fertilizer on growth and yield of paddy	Effect of Nano N fertilizer on growth and yield of paddy	-	1(29)	1(22)	-	1	-	-	-	- / -
2.	Integrated Nutrient Management	Cotton	Effect of Nano N fertilizer on growth and yield of cotton	Effect of Nano N fertilizer on growth and yield of cotton	-	1(25)	1(18)		3	-	-	-	
3.	Varietal evaluation	Blackgram	Assessment of blackgram varieties as alternate crop in paddy fallows	Assessment of blackgram varieties as alternate crop in paddy fallows	-	1(25)	1(26)	-	-	1.05	-	-	- / -
4.	Varietal evaluation	Poultry bird	Assessment of dietary supplements of fresh and dry azolla on the performance of backyard poultry bird	Assessment of dietary supplements of fresh and dry azolla on the performance of backyard poultry bird	-	1(28)	1(21)	-	-	-	-	-	- / -
5.	Integrated Nutrient Management	Paddy	• Deterioration of soil physical condition, especially soil structure & porosity • 100 % of tail end farmers experience shortage of water & water is not available at right time in 100 % cases High incidence of BPH (70 -80 %)	-	Demonstration of DSR paddy under organic system	1(23)	1(19)	-	2	-	-	-	**6** / **30**
6.	Water management (AWD)	Paddy	• Excess water usage leads decline in yield • Saline, alkaline & water logging problems Increase in pest & disease population	-	Water management (AWD) in paddy	1(25)	1(18)	-	1	-	-	-	- / -
7.	Introduction of New variety	Foxtail millet	• Use of Local variety low yields	-	Demonstration of high yielding Foxtail millet Var. HN-46	1(25)	1(26)	-	2	0.30	-	-	2 / 4
8.	Integrated Pest Management	Groundnut	Pest and diseases (PBND, Spodoptera, leaf miner, sucking pests ,leaf spot and collar rot)	-	Integrated pest and disease management in groundnut	1(28)	1(21)	-	3	-	-	-	3 / 50
9.	Introduction of New variety	Chickpea	• Farmers still grow local variety (20-25%)	-	Demonstration of high yielding chickpea variety (Super Annigeri-1)	1(23)	1(19)	-	2	2.0	-	-	3 / 6

Sl. 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	
													No.	Kg
			• In 80% situations, seeds are not treated • Pod borer (12 %) & wilt in 30-40% situations poor flowering, pod setting , moisture stress & imbalanced nutrient supply (75-85 %)											
10.	Integrated Pest & Disease Management	Chilli	Indiscriminate use of chemical pesticides for management of thrips, mites, Spodoptera litura Fab and wilt	-	Integrated Pest and Disease (wilt) Management in Chilli	1(25)	1(18)	-	2	0.10	-	-	3	2020
11.	Integrated Pest Management	Brinijal	Indiscriminate use of chemical insecticides to manage Shoot & fruit borer	-	Integrated management of Shoot & fruit borer in Brinjal	1(25)	1(26)	-	2	-	-	-	1	4
12.	Integrated Pest & Disease Management	Tomato	Inappropriate management of Pest and diseases (pinworm & early blight) through chemicals	-	Management of pinworm & blight in Tomato	1(28)	1(21)		3	-	-	-	2	25
13.	Integrated Pest Management	Ridgegourd	• Fruitfly incidence (30 %) Indiscriminate use of insecticides	-	Management of fruitfly using plant volatiles in ridgegourd	1(23)	1(19)		2	-	-	-	-	-
14.	Integrated Nutrient Management	Guava	• In appropriate management of nematodes (velum) Inorganic management	-	Demonstration of nematode management in Guava	1 (26)	-	-	2	0.05	-	-	2	105
15.	Integrated Nutrient Management	Chilli	• Seedling wilt (90%) • Unscientific management practices (spraying instead of drenching at moist stage) Use of more combination and high dosage of chemicals	-	Demonstration of Arka Microbial Consortia in Chilli	1 (25)	-	-	2	-	-	-	1	16
16.	Integrated Nutrient Management	Mango	• Lack of knowledge of pruning techniques • Poor water (excess irrigation during flowering stage) management • Micro nutrient	-	Integrated Crop Management in Mango	1 (32)	1 (19)	-	2	-	-	-	-	-

Sl. 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
													No. / Kg
			deficiency (Zn, Bo, Mg) Poor management of pest and diseases (fruitfly-48%, leaf hopper-75% and powdery mildew-20%)										
17.	Integrated Nutrient Management	Pomegranate	• Reduction in the area of pomegranate due to high cost of cultivation Unscientific cultural operations (spraying ehrel and pruning) & Unscientific BB management practices	-	Integrated Crop Management in Pomegranate	1 (19)	-	-	-	-	-	-	- / -
18.	Integrated Nutrient Management	Betelevine	• Phytophthera wilt incidence (60.75%) • Reduction in area • Poor water management practices Excessive application of chemicals	-	Integrated Crop Management in Betelevine	1(25)	1(26)	-	1	-	-	-	2 / 35
19.	Integrated Disease Management	Buffaloes	• Decreased milk production due to summer stress Delayed estrous	-	Thermal stress management in Buffaloes	1(28)	1(21)	-	2	-	-	-	- / -
20.	Integrated Disease Management	Cows	• Subclinical mastitis, • Reduction in milk yield Thelitis, sour milk	-	Demonstration of Masti Guard for Prevention & Control of Sub Clinical Mastitis in Cross Bred Dairy Cows	1(23)	1(19)	-	2	-	-	-	- / -
21.	Integrated Disease Management	Buffaloes	Anestrous, poor exhibition of heat signs (Silent heat). Repeat breeding	-	Establishing fodder banks in sheep and goat rearing	1(30)	1(26)	-	3	-	-	-	- / -
22.	Integrated Nutritional Management	Sheep & Goat	• Non availability of diversified fodder crops to meet requirements of balanced forage feeding. Lack of year round green fodder	-	Demonstration of Pro Sync-NC-Progesterone Nano cream Hormone for augmenting fertility in dairy Buffaloes	1(30)	1(29)	-	2	0.52	-	-	- / -
23.	Cost reduction	Solar Drier	• Unhygienic way of drying of Red Chillies	-	Assessment of drying of Red Chillies in	2 (55)	1(21)	1(24)	2	-	-	-	- / -

Sl. 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	
													No.	Kg
			Discolouration of chilli fruits due to use of tarpoulin		Solar drier and sunlight									
24.	Cost reduction	Paddy	• Burning of paddy straw, Time consuming, High labour cost, Transportation problem, Palatability	-	Popularization of tractor operated baler for paddy straw management	2 (56)	-	-	2	-	-	-	-	-
25.	Cost reduction	Portable Fertilizer feeder	• Labour intensive, time consuming & drudgery. Wastage of fertilizer in broadcasting & less fertilizer use efficiency.	-	Demonstration of Portable Fertilizer feeder equipment for uniform application & drudgery reduction	1 (28)	-	-	2	-	-	-	-	-

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.	Effect of Nano N fertilizer on growth and yield of paddy	IFFCO-NBRC, Gujarath	Paddy	3		3	2
2.	Effect of Nano N fertilizer on growth and yield of cotton	IFFCO-NBRC, Gujarath	Cotton	3		2	3
3.	Assessment of blackgram varieties as alternate crop in paddy fallows	GBPUAT	Blackgram	5		1	1
4.	Assessment of dietary supplements of fresh and dry azolla on the performance of backyard poultry bird	NIANP, Bengaluru	Poultry bird	5		1	1
5.	Demonstration of DSR paddy under organic system	UAS, Raichur	Paddy	-	5	2	3
6.	Water management (AWD) in paddy	UAS, Raichur	Paddy	-	10	2	1
7.	Demonstration of high yielding Foxtail millet Var. HN-46	UAS, Raichur	Foxtail millet	-	10	2	1
8.	Integrated pest and disease management in groundnut	UASR/ AICRPG	Groundnut	-	10	2	1
9.	Demonstration of high yielding chickpea variety (Super Annigeri-1)	UASR	Chickpea	-	10	2	1
10.	Integrated Pest and Disease (wilt) Management in Chilli	UASR	Chilli	-	10	2	1
11.	Integrated management of Shoot & fruit borer in Brinjal	UHS, Bagalkot / IIVR, Varanasi	Brinijal	-	5	2	1
12.	Management of pinworm & blight in Tomato	IIVR, Varanasi/ UHS, Bagalkote	Tomato	-	10	2	3
13.	Management of fruitfly using plant volatiles in ridgegourd	NBAIR, Bengaluru	Ridgegourd	-	10	2	1
14.	Demonstration of nematode management in Guava	IIHR, Bengaluru & TNAU	Guava	-	5	2	3
15.	Demonstration of Arka Microbial Consortia in Chilli	IIHR	Chilli	-	20	2	-
16.	Integrated Crop Management in Mango	IIHR Bengaluru	Mango	-	5	2	-
17.	Integrated Crop Management in Pomegranate	NRC on pomegranate, Solapur	Pomegranate	-	5	2	2
18.	Integrated Crop Management in Betelevine	IIHR Bengaluru & TNAU Coimbatore	Betelevine	-	5	2	2
19.	Thermal stress management in Buffaloes	ICAR Central Institute for Research on Buffaloes , Hissar	Buffaloes	-	10	2	2

20.	Demonstration of Masti Guard for Prevention & Control of Sub Clinical Mastitis in Cross Bred Dairy Cows	TANUVAS, Chennai	Cows	-	20	2	1
21.	Establishing fodder banks in sheep and goat rearing	TNAU, Coimbatore	Buffaloes	-	10	3	3
22.	Demonstration of Pro Sync-NC-Progesterone Nano cream Hormone for augmenting fertility in dairy Buffaloes	TANUVAS, Chennai	Sheep & Goat	-	20	2	3
23.	Assessment of drying of Red Chillies in Solar drier and sunlight	UAS Raichur	Solar Drier	-	10	2	2
24.	Popularization of tractor operated baler for paddy straw management	UAS Raichur	Paddy	-	10	3	2
25.	Demonstration of Portable Fertilizer feeder equipment for uniform application & drudgery reduction	Adaptive Agritech solutions, Belgaum	Portable Fertilizer feeder	-	10	2	3

3.B2 contd..

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
2	-	1	-	-	-	-	-	33	6	27	3	12	2	10	1
3	-	-	-	-	-	-	-	36	7	29	3	28	5	23	2
3	-	2	-	-	-	-	-	32	6	26	3	0	0	0	0
2	1	2	-	-	-	-	-	31	6	25	3	12	2	10	1
-	-	-	-	5	-	5	-	32	6	26	3	8	2	7	1
-	-	-	-	3	-	2	-	58	11	47	5	18	3	15	2
-	-	-	-	6	-	4	-	29	5	23	2	0	0	0	0
-	-	-	-	4	1	4	1	30	6	24	2	0	0	0	0
-	-	-	-	10	2	12	1	22	4	18	2	20	4	16	2
-	-	-	-	5	1	3	1	26	5	21	2	32	6	26	3
-	-	-	-	3	-	2	-	25	5	20	2	40	8	33	3
-	-	-	-	5	1	4	-	24	4	19	2	0	0	0	0
-	-	-	-	4	2	4	-	35	6	28	3	0	0	0	0
-	-	-	-	3	-	2	-	29	5	23	2	23	4	18	2
-	-	-	-	2	-	3	-	37	7	30	3	9	2	7	1
-	-	-	-	6	-	4	-	36	7	29	3	0	0	0	0
-	-	-	-	25	5	15	5	33	6	27	3	0	0	0	0
-	-	-	-	5	-	5	-	30	6	25	3	11	2	9	1
-	-	-	-	10	2	8	-	35	7	28	3	13	3	11	1
-	-	-	-	12	-	8	-	32	6	26	3	8	2	7	1
-	-	-	-	3	-	2	-	36	7	30	3	10	2	8	1
-	-	-	-	6	-	4	-	32	6	26	3	12	2	9	1
-	-	-	-	5	1	4	-	31	6	25	3	8	1	6	1
-	-	-	-	15	5	25	5	43	8	35	4	11	2	9	1
-	-	-	-	25	5	15	5	33	6	27	3	0	0	0	0

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	TOTAL
Integrated Nutrient Management	1	-	-	1	-	-	-	-	-	2
Varietal Evaluation	-	-	1	-	-	-	-	-	-	1
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-	-	-	-	-	-
Farm Machineries	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Farm Mechanization	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	1	-	1	1	-	-	-	-	-	3

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

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

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

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of Management		1	-	-	-	1
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
Dairy	-	-	-	-	-	-
TOTAL	-	1	-	-	-	1

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

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-
Dairy	-	-	-	-	-	-
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 trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management	Paddy	Effect of Nano N fertilizer on growth and yield of paddy	3	3/1	2.0/
	Cotton	Effect of Nano N fertilizer on growth and yield of cotton	3	3/1	2.0
Varietal Evaluation	Paddy	Assessment of Blackgram variety as a alternate crop in paddy fallow	5	5/2	3.0
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total			**15**	**15/4**	**7.0**

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technologies	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management	-	-	-	-	-
Varietal Evaluation	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
Weed Management	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
Farm Machineries	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Value addition	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
Storage Technique	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
Cropping Systems	-	-	-	-	-
Farm Mechanization	-	-	-	-	-
Total	-	-	-	-	-

4.B.3. Technologies assessed under Livestock

Thematic areas	Name of the livestock	Name of the technologies	No. of trials	No. of farmers/locations
Evaluation of breeds	-	-	-	-
Nutrition management	-	-	-	-
Disease management	Poultry bird	Assessment of dietary supplements of fresh and dry azolla on the performance of backyard poultry bird	5	5/3
Processing and Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder management	-	-	-	-
Small scale income generating enterprises	-	-	-	-
Total			5	5/3

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

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

4.B.5. T**echnologies assessed under various enterprises by KVKs**

Sl. No.	**Thematic areas**	**Name of the enterprise**	**Name of technology(s)**	**No. of trials**	**No. of locations**
1	Drudgery reduction	-	-	-	-
2	Entrepreneurship Development	-	-	-	-
3	Health and nutrition	-	-	-	-
4	Processing and value addition	-	-	-	-
5	Energy conservation	-	-	-	-
6	Small-scale income generation	-	-	-	-
7	Storage techniques	-	-	-	-
8	Household food security	-	-	-	-
9	Organic farming	-	-	-	-
10	Agroforestry management	-	-	-	-
11	Mechanization	-	-	-	-
12	Resource conservation technology	-	-	-	-
13	Value Addition	-	-	-	-

4.B.6.T**echnologies assessed under various enterprises for women empowerment**

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

4.C1. Results of Technologies Assessed

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. / nit	Net Return Rs./unit	BC Ratio (Gross income/Gross Cost)
1	2	3	4	5	6	7	8	9		10		11	12	13
Paddy		Effect of Nano N fertilizer on growth and yield of paddy	Effect of Nano N fertilizer on growth and yield of paddy	3	**TO1:** Application of NP fertilizers as basal dose & top dressing with N fertilizer, non or less application of K fertilizer	Farmers' Practice		**Plant height (cm)**	**No.of panicles/m2)**	**Panicle wt./pant (g)**	**1000 Seed wt.(g)**			
					TO2: Soil test based nutrient management (RDF: 150:75:75 NPK kg/ha) 50% N, full P & K as basal, 25% N at 30 DAS & remaining 25% N at 50 DAS.	UASR		Flowering stage						
					TO3: Application of 50 % N as basal and remaining 50% N through Nano N fertiliser by foliar (4 ml/L) at 30 DAS and 50 DAS. Application of P and K same as above.	IFFCO-NBRC, Gujarath								
Cotton		Effect of Nano N fertilizer on growth and yield of cotton	Effect of Nano N fertilizer on growth and yield of cotton	3	**TO1:** Imbalanced application of nutrients & application of only NPK fertilizers	Farmers' Practice	23.0 (q/ha)	**Plant height (cm)**		**Panicle wt./pant (g)**		186300	1,08,800	2.40
								113.5		60.6				
					TO2: Soil test based nutrient management (RDF: 180:90:90 NPK kg/ha) 25 % N, K +100 % P as basal , remaining 75 % N, K at 30,60 & 90 DAS	UASR	24.2 (q/ha)	114.0		65.2		196020	1,22,820	2.60
					TO3: Application of 50 % N as soil application (45 kg N as basal and 45 kg N at 50 DAS) and remaining 50 % N through Nano N fertilizer as foliar spray at 60, 75 & 90 DAS (4 ml/l) Application of P and K same as above	IFFCO-NBRC, Gujarath	25.3 (q/ha)	118.3		67.0		204930	1,33,230	2.86
Blackgram		Assessment of blackgram varieties as alternate crop in paddy fallows	Assessment of blackgram varieties as alternate crop in paddy fallows	5	**TO1:** Farmers Practices	Farmers Practices	Newly started and Farmers selected							
					TO2: TRCRTRU-22	UASR								
					TO3: DU-1	UASD								
					TO4: PU-31	GBPUAT								
Poultry bird		Assessment of dietary	Assessment of dietary	5	**TO1:** Local bird rearing without azolla feeding	-								

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. / nit	Net Return Rs./unit	BC Ratio (Gross income/Gross Cost)
		supplements of fresh and dry azolla on the performance of backyard poultry bird	supplements of fresh and dry azolla on the performance of backyard poultry bird		**TO2:** Fresh Azolla feeding + Vaccination against RD and IBD	KVAFSU, Bidar						
					TO3: Dried Azolla feeding + Vaccination against RD and IBD	NIANP, 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
Effect of Nano N fertilizer on growth and yield of paddy		
Effect of Nano N fertilizer on growth and yield of cotton		
Assessment of blackgram varieties as alternate crop in paddy fallows		
Assessment of dietary supplements of fresh and dry azolla on the performance of backyard poultry bird		

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

1. Title of Technology Assessed	:	Effect of Nano N fertilizer on growth and yield of paddy
2. Performance of the Technology on specific indicators	:	
3.Specific Feedback from farmers	:	
4.Specific Feedback from Extension personnel and other stakeholders	:	
5. Feedback to Research System based on results and feedback received	:	
6. Feedback on usefulness and constraints of technology	:	

1. Title of Technology Assessed	:	Effect of Nano N fertilizer on growth and yield of cotton
2. Performance of the Technology on specific indicators	:	
3.Specific Feedback from farmers	:	Nano urea was found useful by slightly increasing the yield of cotton
4.Specific Feedback from Extension personnel and other stakeholders	:	Nano urea foliar spray in cotton performed well by reducing the cost of production and a slight increase in yield.
5. Feedback to Research System based on results and feedback received	:	Detailed study on use of Nano urea in cotton is required before come to the final conclusion.
6. Feedback on usefulness and constraints of technology	:	

1. Title of Technology Assessed	:	Assessment of blackgram varieties as alternate crop in paddy fallows
2. Performance of the Technology on specific indicators	:	-
3.Specific Feedback from farmers	:	Among different black gram varieties tested, PU-31 performed well on paddy fallows.
4.Specific Feedback from Extension personnel and other stakeholders	:	PU-31 gave higher yield and YMV disease score is also less with PU-31.
5. Feedback to Research System based on results and feedback	:	PU-31 black gram variety can be grown on paddy

received		fallows by utilising residual nutrients and soil moisture.
6. Feedback on usefulness and constraints of technology	:	

1. Title of Technology Assessed	:	Assessment of dietary supplements of fresh and dry azolla on the performance of backyard poultry bird
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: Nil

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 : Nil

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: Nil

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		Irrigated	*Rabi*	Groundnut	-	Pvt. Hybrid	Integrated pest and disease management	Integrated pest and disease management in groundnut	4.0	4.0	8	2	5	5
	Pulses													
2		Rainfed	*Rabi*	Chickpea	JG-11	-	Introduction of New variety	Demonstration of high yielding chickpea variety (SuperAnnigeri-1)	4.0	4.0	2	8	3	7
	Cereals													
3		Irrigated	*Kharif*	Paddy	BPH-5204	-	Integrated Nutrient Management	Demonstration of DSR paddy under organic system	2.0	2.0	2	3	1	4
4		Irrigated	*Kharif*	Paddy	BPH-5204	-	Water management (AWD)	Water management (AWD) in paddy	4.0	4.0	3	7	4	6
	Millets													
5		Rainfed	*Kharif*	Foxtail millet	HN-46	-	Introduction of New variety	Demonstration of high yielding Foxtail millet Var. HN-46	4.0	4.0	6	4	7	3
	Vegetables													
6		Irrigated	*Kharif*	Chilli	-	Pvt. Hybrid	Integrated pest and disease management	Integrated Pest and Disease (wilt) Management in Chilli	4.0	4.0	5	5	2	3
7		Irrigated	*Rabi*	Brinjal	-	Pvt. Hybrid	Integrated pest management	Integrated management of Shoot & fruit borer in Brinjal	2.0	2.0	1	4	3	2
8		Irrigated	*Rabi*	Tomato	-	Pvt. Hybrid	Integrated pest and disease management	Management of pinworm & blight in Tomato	4.0	4.0	3	7	4	6
9		Irrigated	*Rabi*	Ridgegourd	-	Pvt. Hybrid	Integrated pest management	Management of fruitfly using plant volatiles in ridgegourd	4.0	4.0	6	4	7	3
10		Irrigated	*Kharif*	Chilli	-	Pvt. Hybrid	Integrated Nutrient Management	Demonstration of Arka Microbial Consortia in Chilli	8.0	8.0	6	14	8	12
	Flowers													
	Ornamental													
	Fruit													
11		Irrigated	*Rabi/ Summer*	Guava	Taiwan pink	-	Integrated Nutrient Management	Demonstration of nematode management in Guava	2.0	2.0	2	3	1	4
12		Irrigated	*Rabi/ Summer*	Mango	Dashehari/ Beneshan	-	Integrated Crop Management	Integrated Crop Management in Mango	2.0	2.0	1	4	2	3
13		Irrigated	*Rabi/ Summer*	Pomegranate	Bhagwa	-	Integrated Crop Management	Integrated Crop Management in Pomegranate	2.0	2.0	2	3	1	4
	Spices and condiments													
14		Irrigated	*Rabi/ Summer*	Betelevine	Ambodi	-	Integrated Crop Management	Integrated Crop Management in Betelevine	2.0	2.0	2	3	1	4
	Commercial													
	Medicinal and aromatic													
15	Fodder						Integrated Nutritional Management	Establishing fodder banks in sheep and goat rearing	2.0	2.0	4	6	3	7
	Plantation													

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
	Fibre													
	Dairy													
16		-	*Summer*	Buffaloes	-	Buffaloes	Integrated Disease Management	Thermal stress management in Buffaloes	10	10	4	6	3	7
17		-	*Summer*	Dairy Cows	-	Dairy Cows	Integrated Disease Management	Demonstration of Masti Guard for Prevention & Control of Sub Clinical Mastitis in Cross Bred Dairy Cows	20	20	8	12	7	13
18		-	*Summer*	Buffalo	-	Buffalo	Integrated Disease Management	Demonstration of Pro Sync-NC-Progesterone Nano cream Hormone for augmenting fertility in dairy Buffaloes	20	20	8	12	7	13
	Poultry													
	Rabbitry													
	Piggery													
	Sheep and goat													
	Duckery													
	Common carps													
	Mussels													
	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
19	Implements		*Summer*	Solar drier			Cost Reduction	Assessment of drying of Red Chillies in Solar drier and sunlight	10	10	4	6	3	7
20			*Rabi*	Baler for paddy			Cost Reduction	Popularization of tractor operated baler for paddy straw management	10	10	4	6	3	7
21			Rabi/ Summer	Fertilizer feeder			Cost Reduction	Demonstration of Portable Fertilizer feeder equipment for uniform application & drudgery reduction	10	10	4	6	3	7

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

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												
		Irrigated	*Rabi 2022*	Groundnut	TMV-2	-	Integrated pest and disease management	Integrated pest and disease management in groundnut	*Rabi 2022*	L	M	H	Groundnut
										L	M	H	Chickpea
	Pulses	Rainfed	*Rabi 2022*	Chickpea	JG-11	-	Introduction of New variety	Demonstration of high yielding chickpea variety (SuperAnnigeri-1)	*Rabi 2022*				
										L	M	H	Paddy
	Cereals	Irrigated	*Kharif 2022*	Paddy	BPH-5204	-	Integrated Nutrient Management	Demonstration of DSR paddy under organic system	*Kharif 2022*	L	M	H	Paddy
		Irrigated	*Kharif 2022*	Paddy	BPH-5204	-	Water management (AWD)	Water management (AWD) in paddy	*Kharif 2022*				
										L	M	H	Foxtail millet
	Millets	Rainfed	*Kharif 2022*	Foxtail millet	HN-46	-	Introduction of New variety	Demonstration of high yielding Foxtail millet Var. HN-46	*Kharif 2022*				
	Vegetables												
		Irrigated	*Kharif 2022*	Chilli	-	Pvt. Hybrid	Integrated pest and disease management	Integrated Pest and Disease (wilt) Management in Chilli	*Kharif 2022*	L	M	H	Chilli
		Irrigated	*Rabi 2022*	Brinjal	-	Pvt. Hybrid	Integrated pest management	Integrated management of Shoot & fruit borer in Brinjal	*Rabi 2022*	L	M	H	Brinjal
		Irrigated	*Rabi 2022*	Tomato	-	Pvt. Hybrid	Integrated pest and disease management	Management of pinworm & blight in Tomato	*Rabi 2022*	L	M	H	Tomato
		Irrigated	*Rabi 2022*	Ridgegourd	-	Pvt. Hybrid	Integrated pest management	Management of fruitfly using plant volatiles in ridgegourd	*Rabi 2022*	L	M	H	Ridgegourd
		Irrigated	*Kharif 2022*	Chilli	-	Pvt. Hybrid	Integrated Nutrient Management	Demonstration of Arka Microbial Consortia in Chilli	*Kharif 2022*	L	M	H	Chilli
	Flowers												
	Ornamental									L	M	H	Guava
	Fruit	Irrigated	*Rabi 2022*	Guava	Taiwan pink	-	Integrated Nutrient Management	Demonstration of nematode management in Guava	*Rabi 2022*	L	M	H	Mango
		Irrigated	*Rabi 2022*	Mango	Dashehari/ Beneshan	-	Integrated Crop Management	Integrated Crop Management in Mango	*Rabi 2022*	L	M	H	Pomegranate
		Irrigated	*Rabi 2022*	Pomegranate	Bhagwa	-	Integrated Crop Management	Integrated Crop Management in Pomegranate	*Rabi 2022*				
	Spices and condiments												
		Irrigated	*Rabi 2022*	Betelevine	Ambodi	-	Integrated Crop Management	Integrated Crop Management in Betelevine	*Rabi 2022*	L	M	H	Betelevine
	Commercial												
	Fodder												
		Irrigated	*Rabi 2022*	Hedge, lucerne Stylosanthes, CoFS-31, Sesbania			Integrated Nutritional Management	Establishing fodder banks in sheep and goat rearing	*Rabi 2022*	L	M	H	Fodder crops

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																	
Groundnut	Integrated pest and disease management in groundnut	TMV-2	Pvt. Hybrid	Irrigated	10	4.0	26.22	23.13	26.01	24.05	8.15	195075	156675	4.03	180375	119125	2.94
Pulses																	
Chickpea	Demonstration of high yielding chickpea variety SuperAnnigeri-1)	JG-11	-	Rainfed	10	4.0			17.50	15.0	16.6	87500 (Rs.5000/q)	50000	2.33	75000	36250	1.94
Cereals																	
Paddy	Demonstration of DSR paddy under organic system	BPH-5204	-	Irrigated	5	2.0			44.0	41.0	7.30	1,98,000	1,40,250	2.42	1,84,500	1,19,400	2.83
Paddy	Water management (AWD) in paddy	BPH-5204	-	Irrigated	10	4.0	Crop is at flowering stage										
Millets																	
Foxtail millet	Demonstration of high yielding Foxtail millet Var. HN-46	HN-46	-	Rainfed	10	4.0			20.0	15	33.3	60000	42500	3.42	45000	26875	2.48
Vegetables																	
Chilli	Integrated Pest and Disease (wilt) Management in Chilli	-	Pvt. Hybrid	Irrigated	10	4.0	42.11	39.45	40.75	37.35	9.10	1222500	1005000	5.62	1120500	843000	4.04
Brinjal	Integrated management of Shoot & fruit borer in Brinjal	-	Pvt. Hybrid	Irrigated	5	2.0	FLD is ongoing										
Tomato	Management of pinworm & blight in Tomato	-	Pvt. Hybrid	Irrigated	10	4.0	FLD is ongoing										
Ridgegourd	Management of fruitfly using plant volatiles in Ridgegourd	-	Pvt. Hybrid	Irrigated	10	4.0	FLD is ongoing										
Chilli	Demonstration of Arka Microbial Consortia in Chilli	-	Pvt. Hybrid	Irrigated	20	8.0	52.0	41.5	48.5	41.0	18.29	Yet to well					
Flowers																	
Ornamental																	
Fruit																	
Guava	Demonstration of nematode management in Guava	Taiwan pink	-	Irrigated	5	2.0	Crop is is in harvesting stage										
Mango	Integrated Crop Management in Mango	Dashehari/ Beneshan	-	Irrigated	5	2.0	Crop is in fruit initiation stage										
Pomegranate	Integrated Crop Management in Pomegranate	Bhagwa	-	Irrigated	5	2.0	Crop is in fruit initiation stage										
Spices and condiments																	
Betelevine	Integrated Crop Management in Betelevine	Ambodi	-	Irrigated	5	2.0	One more harvesting is pending										
Commercial																	

Fibre crops like cotton																	
Medicinal and aromatic																	
Fodder																	
Fodder	Establishing fodder banks in sheep and goat rearing	Hedge, lucerne Stylosanthes, CoFS-31, Sesbania	-	Irrigated	10	2.0	***										
Plantation																	
Fibre																	

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

*** Establishing fodder banks in sheep and goat rearing

Parameter with unit	Demo	Check (SSV)	% Increase	Economics of demonstration (Rs.)				Economics of check (Rs.) (SSV)			
	Fodder Yield			Gross Cost	Gross Return	Net Return	BCR	Gross Cost	Gross Return	Net Return	BCR
Co FS 31 Yield (Tones/ha/4 cuttings)	120.0	32.00	275 %	37500	70000	32500	2.10	19000	28000	11000	1.47
Hedge Lucerne Yield (Tones/ha/4 cuttings)	33	-	-	15350	40000	24650					
Styloxanthus Yield (Tones/ha/4 cuttings)	22	-	-	8000	18000	10000					
Body wt gain in sheep (Kg/ month)	3.8	2.9	24 %								
Body wt gain in Goat (Kg/ month)	2.7	2.3	17 %								

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Integrated pest and disease management in groundnut		
% leaf damage at 45 DAS	7.2	15.5
PDI (Tikka disease)	7.5	18.3
Number of moths(Spodoptera) trap/Week at 60 DAS	88	-
Demonstration of DSR paddy under organic system		
No. panicles/m2	325	310
No. of Grains/panicle	182	175
10 panicles wt. (g)	4.10	3.03
Water management (AWD) in paddy		
Demonstration of high yielding Foxtail millet Var. HN-46		
No. of tillers/ plant	3.6	2.5
Panicle length (cm)	21	15
Demonstration of high yielding chickpea variety (Super Annigeri-1)		
Integrated Pest and Disease (wilt) Management in Chilli		
Affected leaves per plant (murda complex) /% damage at 45 DAS	5.5	13.4
Number of moths(Spodoptera)/ trap/week at 60 DAS	89	-
Wilt (% incidence)	3.8	13.5
Integrated management of Shoot & fruit borer in Brinjal		
% shoot damage (includes clipped shoot count)	3.2	10.12
% fruit damage		
Moths trapped/week	9.5	-
Management of pinworm & blight in Tomato		
Number of moths/trap/week	9.3	-
PDI	5-10 %	25-40%
Management of fruitfly using plant volatiles in Ridgegourd		
No. of fruit flies trapped	71.55	-
Malformed fruits	2.11	9.13
Demonstration of Arka Microbial Consortia in Chilli		
Seedling Survivability after transplanting (%)	95	84
Seedling wilt (%) (**Nursery stage**)	3.8	22
Seedling wilt (%) (**Main field (15 DAT)**)	2.7	13.5
Leaf curl (%)	10.6	25.3
Powdery mildew (%)	Nil	3.25
Anthracnose (%)	19.3	25.4
Demonstration of nematode management in Guava		
Integrated Crop Management in Mango		
Fruit fly (Fly/Traps/Week)	12	-
Leaf webber	5.8	28.25
Powdery mildew	1.8	6.2
Integrated Crop Management in Pomegranate		
Bacterial Blight (pdi)	11.2	18.6
Integrated Crop Management in Betelevine		
Phytophthera wilt (%)	8.3	21.86

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Establishing fodder banks in sheep and goat rearing		
Body wt gain in sheep (Kg/ month)	3.8	2.9
Body wt gain in Goat (Kg/ month)	2.7	2.3

5. B2. 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**
Integrated pest and disease management in groundnut	Integrated pest management performs good with reduction in cost of cultivation	No such constraints
Demonstration of DSR paddy under organic system		
Water management (AWD) in paddy		
Demonstration of high yielding Foxtail millet Var. HN-46		
Demonstration of high yielding chickpea variety (Super Annigeri-1)		
Integrated Pest and Disease (wilt) Management in Chilli	Integrated pest management in Chilli ecosystem performs good	No such constraints for adoption
Integrated management of Shoot & fruit borer in Brinjal	FLD is ongoing	
Management of pinworm & blight in Tomato	FLD is ongoing	
Management of fruitfly using plant volatiles in ridgegourd	FLD is ongoing	
Demonstration of Arka Microbial Consortia in Chilli	Seedling survi vitality found superior	Genuine product of AMC is not available in the market
Demonstration of nematode management in Guava	-	-
Integrated Crop Management in Mango	-	-
Integrated Crop Management in Pomegranate	-	-
Integrated Crop Management in Betelevine	Phytophthora wilt incidence reduced	-
Establishing fodder banks in sheep and goat rearing	Balanced forage supply	Available of seed is different crops

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																
	Thermal stress management in Buffaloes		10	10	*											
	Demonstration of Masti Guard for Prevention & Control of Sub Clinical Mastitis in Cross Bred Dairy Cows		20	20	**											
	Demonstration of Pro Sync-NC-Progesterone Nano cream Hormone for augmenting fertility in dairy Buffaloes		20	20	***											
Poultry																
Rabbitry																
Pigerry																
Sheep and goat																
Duckery																

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

** BCR= Gross Return/Gross Cost

***Thermal stress management in Buffaloes**

Parameters	**Farmers practice**	**Demo**
Feed intake	30-35 kg	> 40 kg
Milk yield	7.5 ltr.	8.7 ltr.
Cost of feeding + Management	5870	6170
Cost of supplementation (Rs.)/month	-	300
Income (Rs.)/month (Rs. 50/ltr of milk)	11250	13050
Profit (Rs.)/month	5380	6880
B:C	1.92	2.12

Parameters	**Farmers practice**	**Demo**
Rectal temperature (^{0}C)		
Peak Afternoon	40.2 ± 0.14	38.9 ± 0.25
Respiratory rate (No./min.)		
Peak Afternoon	32.5 ± 1.26	23.5 ± 1.93
Pulse rate (No./min.)		
Peak Afternoon	68.3 ± 1.05	59.2 ± 1.22

****Demonstration of Masti Guard for Prevention & Control of Sub Clinical Mastitis in Cross Bred Dairy Cows**

Parameters	Somatic cell counnt	Milk pH	Colour	Taste	Smell
Mastitis effected	500 x 1000	7.6	Curdeled milk with fibrin clots	Salty flavour	Curdeled milk
Healthy	75 x 1000	6.4	Yellowish white	Slightly sweet	Normal
6 weeks after teat	100 x 1000	6.6	Yellowish white	Slightly sweet	Normal

***** Demonstration of Pro Sync-NC- Progesterone Nano cream Hormone for augmenting fertility in dairy Buffaloes**

	Demo	Check	Remarks
Exhibition of estrus symptoms (Buffaloes)	7	2	1.Farmer friendly technology 2.Low cost technology compare to parental hormonal treatment
Conceived cows & buffaloes (After 3 months on per rectal palpation) (Buffaloes)	4	0	
% of conception out of oestrus buffaloes	57.14	0	

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
Thermal stress management in Buffaloes		
Demonstration of Masti Guard for Prevention & Control of Sub Clinical Mastitis in Cross Bred Dairy Cows		
Demonstration of Pro Sync-NC- Progesterone Nano cream Hormone for augmenting fertility in dairy Buffaloes		

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**
Thermal stress management in Buffaloes		
Demonstration of Masti Guard for Prevention & Control of Sub Clinical Mastitis in Cross Bred Dairy Cows		
Demonstration of Pro Sync-NC- Progesterone Nano cream Hormone for augmenting fertility in dairy Buffaloes		

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																
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.)

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																

* 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
Super Grain Bags	25000	Super Grain Bags for Storage of food grains	50	-	No. of insects present/kg	7.33	0								
					Initial weight (kg)	25	25								
					Weight after usage of save grain bags (kg)	21.34	24.78								
					Weight loss of grains (kg)	3.66	0.22								
					Weight loss (%)	14.64	0.88								
Solar drier	15000	Assessment of drying of Red Chillies in Solar drier and sunlight	10	4.0	Time taken for drying	40 h	24 h								
					Labours	5	2								
Paddy Baler	15000	Popularization of tractor operated baler for paddy straw management	10	4.0	**Details of work**	**Combine Harvester and Collection by baler**	**Combine Harvester and manual collection**								
					Combine harvester	3000	3000								
					Labour charges for collection of straw (Rs.250/person, 8 members)	-	2000								
					Baler	700	-								
					Transportation charges	400	800								
					Total cost	4150	5800								
					Number of bales	130	100								
					Straw yield (t) (Avg. Wt of bale 25kg)	3.25	2.5								

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
					Income occurred Rs. 1500/t	4875.00	3750.00								
					B:C Ratio	1.18	0.64								

* 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**
Super Grain Bags for Storage of food grains		
Assessment of drying of Red Chillies in Solar drier and sunlight		
Popularization of tractor operated baler for paddy straw management		

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**
Super Grain Bags for Storage of food grains		Treated seeds were taken and shlef life got extended upto 6 months.
Assessment of drying of Red Chillies in Solar drier and sunlight		Farmers are satisfied with the quality of chilli dried in STD compared to other two methods of drying quite disappointed with cost of dryer as it is not affordable by all the farmers.
Popularization of tractor operated baler for paddy straw management		Farmers are satisfied with the new technology because it has saved labour cost and time saving.

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

Sl. No.	**Activity**	**No. of activities organised**	**Number of participants**	**Remarks**
1	Field days	11	580	
2	Farmers Training	113	3842	
3	Media coverage	140		
4	Training for extension functionaries	3	135	

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilseeds															
Castor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mustard	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Groundnut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soybean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Greengram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blackgram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bengalgram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redgram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total															
Vegetable crops															
Chilli	Integrated Pest and Disease (wilt) Management in Chilli	Pvt. Hybrid	10	4.0	42.11	39.45	40.75	37.35	9.10	1222500	1005000	5.62	1120500	843000	4.04
Brinjal	Integrated management of Shoot & fruit borer in Brinjal	Pvt. Hybrid	5	2.0	FLD is Ongoing										
Tomato	Management of pinworm & blight in Tomato	Pvt. Hybrid	10	4.0	FLD is Ongoing										

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								
Ridgegourd	Management of fruitfly using plant volatiles in ridgegourd	Pvt. Hybrid	10	4.0	FLD is Ongoing										
Chilli	Demonstration of Arka Microbial Consortia in Chilli	Pvt. Hybrid	20	8.0	52.0	41.5	48.5	41.0	18.9	Yet to cell					
Okra		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Onion		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potato		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field bean		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial crops															
Sugarcane		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coconut		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder crops		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize (Fodder)		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum (Fodder)		-	-	-	-	-	-	-	-	-	-	-	-	-	-
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
Integrated pest and disease management in Groundnut		
Integrated Pest and Disease (wilt) Management in Chilli		
Integrated management of Shoot & fruit borer in Brinjal		
Management of pinworm & blight in Tomato		
Management of fruitfly using plant volatiles in Ridgegourd		
Demonstration of Arka Microbial Consortia in Chilli		

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	1	21	0	21	0	0	0	21	0	21
Resource Conservation Technologies	1	21	0	21	0	0	0	21	0	21
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Micro Irrigation/Irrigation	1	21	0	21	0	0	0	21	0	21
Seed production	1	21	0	21	0	0	0	21	0	21
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	4	262	13	275	26	3	29	288	16	304
Soil and Water Conservation	1	14	4	18	1	0	1	15	4	19
Integrated Nutrient Management	6	134	42	176	21	18	39	176	39	215
Production of organic inputs	1	40	0	40	0	0	0	40	0	40
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	100	0	100	0	0	0	100	0	100
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation	1	40	0	40	0	0	0	40	0	40
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
b) Fruits										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	3	260	0	260	0	0	0	260	0	260
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology	2	95	0	95	0	0	0	95	0	95
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										

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	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	1	32	0	32	0	0	0	32	0	32
Soil Health and Fertility Management										
Soil fertility management	1	80	0	80	0	0	0	80	0	80
Integrated water management	4	262	13	275	26	3	29	288	16	304
Integrated nutrient management	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	77	0	77	0	0	0	77	0	77
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient use efficiency	0	0	0	0	0	0	0	0	0	0
Balanced use of fertilizers	1	53	0	53	0	0	0	53	0	53
Soil and water testing	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Livestock Production and Management										
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	1	32	0	32	0	0	0	32	0	32
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	4	262	13	275	26	3	29	288	16	304
Animal Disease Management	1	32	0	32	0	0	0	32	0	32
Feed and Fodder technology	1	64	6	70	7	3	10	71	9	80
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	4	3	208	211	2	14	16	5	222	227
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	1	5	8	13	0	0	0	5	8	13
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	1	150	0	150	0	0	0	150	0	150
Value addition	3	14	132	146	2	2	4	16	134	150
Women empowerment	0	0	0	0	0	0	0	0	0	0
Location specific drudgery production	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	2	0	94	94	0	0	0	0	94	94
Others (pl.specify)	1	51	0	51	0	0	0	51	0	51
Agril. Engineering										
Farm machinery and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Plant Protection										
Integrated Pest Management	4	47	8	55	28	7	35	75	15	90
Integrated Disease Management	2	48	1	49	5	1	6	53	2	55
Bio-control of pests and diseases	1	51	0	51	0	0	0	51	0	51
Production of bio control agents and bio pesticides	2	64	6	70	7	3	10	71	9	80
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Fisheries										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated fish farming	2	80	5	85	17	0	17	97	5	102
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
CapacityBuilding and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	1	23	0	23	6	0	6	29	0	29
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	0	32	32	0	1	1	**0**	33	33
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
TOTAL	**63**	**2459**	**585**	**3044**	**174**	**58**	**232**	**2654**	**622**	**3276**

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	0	0	0	0	0	0	0	0	0	0
Weed Management	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	1	15	3	18	0	0	0	15	3	18
Cropping Systems	1	20	3	23	8	2	10	28	5	33
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	1	26	3	29	13	2	15	39	5	44
Micro Irrigation/Irrigation	0	0	0	0	0	0	0	0	0	0
Seed production	1	26	3	29	13	2	15	39	5	44
Nursery management	1	26	3	29	13	2	15	39	5	44
Integrated Crop Management	5	63	17	80	1	3	4	64	20	84
Soil and Water Conservation	1	13	6	19	0	0	0	13	6	19
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	20	3	23	8	2	10	28	5	33
Horticulture	6	110	44	154	5	0	5	115	44	159
a) Vegetable Crops	0	0	0	0	0	0	0	0	0	0
Production of low value and high volume crop	1	26	3	29	13	2	15	39	5	44
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	26	3	29	13	2	15	39	5	44
Exotic vegetables	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	1	26	3	29	13	2	15	39	5	44
Protective cultivation	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
b) Fruits	3	32	4	38	0	0	0	32	4	38
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Soil Health and Fertility Management										
Soil fertility management	2	50	0	50	16	0	16	50	16	66

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated water management	1	25	0	25	8	0	8	25	8	33
Integrated nutrient management	3	60	9	69	20	5	25	89	14	103
Production and use of organic inputs	6	76	20	96	5	9	14	81	29	110
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient use efficiency	0	0	0	0	0	0	0	0	0	0
Balanced use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and water testing	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Livestock Production and Management										
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Animal Disease Management	3	100	5	105	16	11	37	116	16	132
Feed and Fodder technology	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	1	12	6	18	0	0	0	12	6	18
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	1	11	1	12	0	3	3	11	4	15
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Women empowerment	2	0	64	64	0	16	16	0	80	80
Location specific drudgery production	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
Agril. Engineering										
Farm machinery and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	5	70	0	70	11	0	11	81	0	81
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Plant Protection										
Integrated Pest Management	5	70	0	70	11	0	11	81	0	81
Integrated Disease Management	1	14	0	14	0	0	0	14	0	14
Bio-control of pests and diseases	3	60	9	69	20	5	25	89	14	103
Production of bio control agents and bio pesticides	3	60	9	69	20	5	25	89	14	103
Integrated Pest and disease Management	5	43	11	54	0	6	6	43	17	60
Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
Mushroom production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
CapacityBuilding and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Agro-forestry	1	15	3	18	**0**	2	2	15	5	20
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
Others (Pl. specify)	0	0	0	0	0	0	0	0	0	0
TOTAL	**67**	**1095**	**243**	**1340**	**227**	**91**	**328**	**1325**	**358**	**1685**

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	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	1	11	6	17	5	2	7	16	8	24
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Integrated farming	2	58	5	63	9	5	14	67	10	77
Seed production	1	11	6	17	5	2	7	16	8	24
Production of organic inputs	2	58	5	63	9	5	14	67	10	77
Planting material production	2	58	5	63	9	5	14	67	10	77
Vermi-culture	1	11	6	17	5	2	7	16	8	24
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	1	26	4	30	3	0	3	29	4	33
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Value addition	2	58	5	63	9	5	14	67	10	77
Small scale processing	1	11	6	17	5	2	7	16	8	24
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Dairying	1	26	4	30	3	0	3	29	4	33
Sheep and goat rearing	1	26	4	30	3	0	3	29	4	33
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	1	26	4	30	3	0	3	29	4	33
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	1	11	6	17	5	2	7	16	8	24
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	1	26	4	30	3	0	3	29	4	33
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
TOTAL	**18**	**417**	**70**	**487**	**76**	**30**	**106**	**493**	**100**	**593**

7.D. Training for Rural Youths 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
Nursery Management of Horticulture crops	1	11	6	17	5	2	7	16	8	24
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	2	58	5	63	9	5	14	67	10	77
Commercial fruit production	1	11	6	17	5	2	7	16	8	24
Integrated farming	2	63	5	68	17	5	22	80	10	90
Seed production	1	11	6	17	5	2	7	16	8	24
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	1	11	6	17	5	2	7	16	8	24
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	1	26	4	30	3	0	3	29	4	33
Sericulture	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	1	26	4	30	3	0	3	29	4	33
Value addition	1	11	6	17	5	2	7	16	8	24
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	1	26	4	30	3	0	3	29	4	33
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Dairying	1	26	4	30	3	0	3	29	4	33
Sheep and goat rearing	1	26	4	30	3	0	3	29	4	33
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	1	11	6	17	5	2	7	16	8	24
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
TOTAL	**15**	**317**	**66**	**383**	**71**	**22**	**93**	**388**	**88**	**476**

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	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	1	11	6	17	5	2	7	16	8	24
Integrated Nutrient management	1	29	5	34	12	6	18	41	11	52
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	1	7	30	37	5	18	23	12	55	67
Formation and Management of SHGs	1	09	45	54	6	21	27	15	66	81
Women and Child care	1	11	6	17	5	2	7	16	8	24
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	1	26	4	30	3	0	3	29	4	33
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	26	4	30	3	0	3	29	4	33
Household food security	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
Total	**7**	**119**	**100**	**219**	**39**	**49**	**88**	**158**	**156**	**314**

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	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	1	29	5	34	12	6	18	41	11	52
Integrated Nutrient management	1	26	4	30	3	0	3	29	4	33
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Women and Child care	1	26	4	30	3	0	3	29	4	33
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	1	11	6	17	5	2	7	16	8	24

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	1	26	4	30	3	0	3	29	4	33
Household food security	0	0	0	0	0	0	0	0	0	0
Any other (pl.specify)	0	0	0	0	0	0	0	0	0	0
Total	**5**	**118**	**23**	**141**	**26**	**8**	**34**	**144**	**31**	**175**

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**	0	0	0	0	0	0	0	0	0	0
1.a.	Increasing production and productivity of crops	2	109	5	114	0	0	0	109	5	114
1.b.	Commercial production of vegetables	0	0	0	0	0	0	0	0	0	0
2	**Production and value addition**	1	41	0	41	0	0	0	41	0	41
2.a.	Fruit Plants	0	0	0	0	0	0	0	0	0	0
2.b.	Ornamental plants	0	0	0	0	0	0	0	0	0	0
2.c.	Spices crops	0	0	0	0	0	0	0	0	0	0
3.	**Soil health and fertility management**	0	0	0	0	0	0	0	0	0	0
4	**Production of Inputs at site**	3	142	0	142	4	0	4	150	0	150
5	**Methods of protective cultivation**	0	0	0	0	0	0	0	0	0	0
6	**Others (pl.specify)**	0	0	0	0	0	0	0	0	0	0
7	**Post harvest technology and value addition**	2	109	5	114	0	0	0	109	5	114
7.a.	Processing and value addition	1	29	5	34	12	6	18	41	11	52
7.b.	Others (pl.specify)	1	26	4	30	3	0	3	29	4	33
8	**Farm machinery**	2	109	5	114	0	0	0	109	5	114
8.a.	Farm machinery, tools and implements	1	40	0	40	0	0	0	40	0	40
8.b.	Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
9.	**Livestock and fisheries**	0	0	0	0	0	0	0	0	0	0
10	**Livestock production and management**	0	0	0	0	0	0	0	0	0	0
10.a.	Animal Nutrition Management	1	40	0	40	0	0	0	40	0	40
10.b.	Animal Disease Management	1	40	0	40	0	0	0	40	0	40
10.c	Fisheries Nutrition	0	0	0	0	0	0	0	0	0	0
10.d	Fisheries Management	1	40	0	40	0	0	0	40	0	40
10.e.	Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
11.	**Home Science**	0	0	0	0	0	0	0	0	0	0
11.a.	Household nutritional security	1	29	5	34	12	6	18	41	11	52
11.b.	Economic empowerment of women	0	0	0	0	0	0	0	0	0	0
11.c.	Drudgery reduction of women	1	26	4	30	3	0	3	29	4	33
11.d.	Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
12	**Agricultural Extension**	0	0	0	0	0	0	0	0	0	0
12.a.	CapacityBuilding and Group Dynamics	2	109	5	114	0	0	0	109	5	114
12.b.	Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
	Total	**20**	**889**	**38**	**927**	**34**	**12**	**46**	**927**	**50**	**977**

Details of sponsoring agencies involved

1. KSDA
2. ISAP
3. RKVY
4. KMF
5. ATMA
6. SEVA
7. ICRISAT
8. SAMETI
9. Watershed Dept.
10. Horticulture Dept
11. ICICI Foundation
12. ZP, Raichur
13. Coramandala Pvt. Ltd., Raichur
14. Jai Kissan Pvt. Ltd., Raichur
15.

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**	0	0	0	0	0	0	0	0	0	0
1.a.	Commercial floriculture	0	0	0	0	0	0	0	0	0	0
1.b.	Commercial fruit production	0	0	0	0	0	0	0	0	0	0
1.c.	Commercial vegetable production	1	0	40	40	0	0	0	0	40	40
1.d.	Integrated crop management	3	0	90	90	0	0	0	0	90	90
1.e.	Organic farming	0	0	0	0	0	0	0	0	0	0
1.f.	Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
2	**Post harvest technology and value addition**	0	0	0	0	0	0	0	0	0	0
2.a.	Value addition	0	0	0	0	0	0	0	0	0	0
2.b.	Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
3.	**Livestock and fisheries**	0	0	0	0	0	0	0	0	0	0
3.a.	Dairy farming	1	40	0	40	0	0	0	40	0	40
3.b.	Composite fish culture	1	40	0	40	0	0	0	40	0	40
3.c.	Sheep and goat rearing	1	40	0	40	0	0	0	40	0	40
3.d.	Piggery	1	40	0	40	0	0	0	40	0	40
3.e.	Poultry farming	1	40	0	40	0	0	0	40	0	40
3.f.	Others (pl.specify)	1	40	0	40	0	0	0	40	0	40
4.	**Income generation activities**	0	0	0	0	0	0	0	0	0	0
4.a.	Vermi-composting	0	0	0	0	0	0	0	0	0	0
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.	0	0	0	0	0	0	0	0	0	0
4.c.	Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
4.d.	Rural Crafts	0	0	0	0	0	0	0	0	0	0
4.e.	Seed production	1	40	0	40	0	0	0	40	0	40
4.f.	Sericulture	0	0	0	0	0	0	0	0	0	0
4.g.	Mushroom cultivation	0	0	0	0	0	0	0	0	0	0
4.h.	Nursery, grafting etc.	0	0	0	0	0	0	0	0	0	0
4.i.	Tailoring, stitching, embroidery, dying etc.	0	0	0	0	0	0	0	0	0	0
4.j.	Agril. para-workers, para-vet training	0	0	0	0	0	0	0	0	0	0
4.k.	Bee keeping	3	90	0	90	0	0	0	90	0	90
5	**Agricultural Extension**	0	0	0	0	0	0	0	0	0	0
5.a.	Capacity building and group dynamics	0	0	0	0	0	0	0	0	0	0
5.b.	Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
	Grand Total	**14**	**370**	**130**	**500**	**0**	**0**	**0**	**370**	**130**	**500**

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

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	1154	800	42	842	260	80	240	48	**24**	72
Farmers visit to KVKs		467	65	532	158	50	208	65	29	94
Lectures delivered as resource persons	99	3878	410	4288	-	-	-	149	4	153
Diagnostic Visits	71	386	17	403	-	-	-	9		9
Field Days	6	112	226	338	-	-	-		20	20
Group discussions/ meetings	-	-	-	-	-	-	-	-	-	0
Kisan Gosthies	5	357	4	361	-	-	-	18		18
Film Shows	4	115	12	127	-	-	-			0
Self help group meetings	-	-	-	-	-	-	-			0
Mahila mandals meetings	-	-	-	-	-	-	-			0
Kisan Melas	2	460		460	-	-	-	2		2
Exhibitions	1		400	400	-	-	-		45	45
Scientist visit to farmers fields	183	1136	516	1652	-	-	-	62		62
Soil health camps	2	62		62	-	-	-	4		4
Animal health camps	5	108	6	114	2	14	16			0
Plant health camps	3	462		462	-	-	-	22		22
Farm Science Club meetings	3	36		36	-	-	-			0
Ex-trainees Sammelans	-	-	-	-	-	-	-	-	-	0
Farmers seminars	-	-	-	-	-	-	-	-	-	0
Workshops	-	-	-	-	-	-	-	-	-	0
Method Demonstrations	-	-	-	-	-	-	-	-	-	0
Celebration of important days	15	512		512	-	-	-	42	11	53
Special day celebrations	21		1507	1507	-	-	-			0
Exposure visits	1	18		18	-	-	-			0
Others, Please specify	6	153	30	183	-	-	-			1
Total	**1581**	**9062**	**3235**	**12297**	**420**	**144**	**464**	**421**	**133**	**555**

Special Extension Programmes

Nature of Extension Programme	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
International Women's Day	08.03.2022	-	132	132	-	-	-	-	2	2
World Water Day	22.03.2022	41	3	44	-	-	-	1	-	1
World Milk Day	17.05.2022	45		45	-	-	-	2	-	2
World Honey Bee Day	20.05.2022	55	-	55	-	-	-	1	-	1
World Environment Day	05.06.2022	40	-	40	-	-	-	-	-	-
Fertilizer Awareness programme	18.06.2022	45		45	-	-	-	2	-	2
International Yoga Day	21.06.2022	13	2	15	-	-	-	-	-	-
Tree Plantation Programme	16.07.2022	15		15	-	-	-	-	-	
Parthenium Awareness Week	16-22. 08.2022	35	8	43	-	-	-	-	-	-
Campaign on Nutri-Garden and Tree Plantation Programme	17.09.2022	153	-	153	-	-	-	4	2	6
Climate Resilient Agriculture	28.09.2022	49	76	125	-	-	-	2	-	2
Swachhta Hi Seva	2-31.10 2022	122	8	130	-	-	-	-	-	-
Mahila Kissan Diwas	15.10.2022	-	60	60	-	-	-	-	2	2
World Food Day	16.10.2022	35		35	-	-	-	-	-	-
Vigilance awareness week		13	2	15	-	-	-	-	-	-
World Soil Day	05.12.2022	49	2	51	-	-	-	-	-	-
Farmers Day	23.12.2022	188	-	188	-	-	-	-	-	-
Natural Farming	16.12.2022	155	17	172	-	-	-	-	-	-
Swachhta Hi Seva	16-31.10. 2022	162	8	170	-	-	-	4	-	4
Jal Shakti Abhiyan	1.4.2021 to 31.11.2022	450	27	477	-	-	-	6	-	6

Nature of Extension Programme	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
Total		**1683**	**375**	**2058**	**-**	**-**	**-**	**22**	**8**	**30**

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1	Popular articles	12
2	Newspaper coverage	22
3	Extension Literature	16
4	Radio Talks	11
5	TV Talks	7
6	CD/DVD/Video clips	5
7	Animal health camps (no. of animal treated)	8
8	Research papers	24
9	Manuals	9
10	Folders	16
11	Reports	8
12	Books	2
	Total	**140**

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Name of the Variety	Quantity of seed(q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)					
Oilseeds					
Pulses	Redgram	TS-3R			
	Chickpea	JG-11			
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds					
Fiber crops	Fodder Sorghum	COFs-31			
Forest Species					
Total					

9.B. Production of hybrid seeds by the KVKs

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

9.C. Production of planting material by the KVKs

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Commercial					
Vegetable seedlings	Drumstick	Bhagya			
Fruits	Papaya	-			
	Lemon	Balaji			
Ornamental plants					
Medicinal and Aromatic	Basale	-			
	Wleus	-			
Plantation					
Spices					

Tuber					
Fodder crop saplings	Susbania	-			
Forest Species					
Total					

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

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

9.C. Production of Bio-Products

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	-	-	-	-
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	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Poultry				
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Piggery				
Piglet	-	-	-	-
Fisheries				
Fingerlings	-	-	-	-
Total				

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

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

(i) KVK Newsletter: March 2017 Periodicity: Monthly Copies printed in each issue: circulated through e-mail

Date of start	Periodicity	Number of copies distributed

(ii) Summary of Literature developed/published

Item	Number
Research papers- International	11
Research papers- National	2
Technical reports	8
Technical bulletins	3
Popular articles - English	1
Popular articles – Local language	18

Extension literature	16
Extended Summaries	1
Abstracts	8

(iii) Details of Literature developed/published

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

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

Example:

- Aliya Naz, **Bhat SN**, Balanagoudar SR, Veeresh H and Satyanarayana R 2023 Effect of humic acid on growth, yield and yield attributes of Rabi sorghum (*Sorghum bicolor L.) The Pharma Innovation J.*, 12(1): 2374-2377

- Krupashree R, Satyanarayana Rao, B. K. Desai, Ananda. N. and **S. N. Bhat** 2022 Zinc and Iron fortification through enriched organics and foliar nutrition on growth, yield and economics of foxtail millet (*Setaria italica*) *Environment Conservation J.* 23 (3):62-70

- Vidyavati S Hakke, N. Aananda, B. M. Chittapur, M. R.Umesh and **S. N. Bhat** 2022 Effect of pre and post emergent application of herbicides on weed control efficiency , performance of sunflower (Helianthus annuus L.) and succeeding chickpea (*Cicer arietinum* L.) *J. Farm Sci*., 35(2): 149

- **Hemalatha, K. J.**, Kattimani, K. N., Kurubar, A. R., Ramesh, G., Umesh, M. R. and Amaregouda, 2022. Standardization of nitrogen levels and harvesting stages to enhance the growth , yield and quality in ashwagandha (*Withania somnifera*) in north eastern dry zone of karnataka. *The Pharma Innovation Journal* (NAAS:5.23).11(7) 1272-1276.

- M S Chethan, B M Chittapur , A S Halepyati, M A Basavanneppa and **Pralhad** Effect of levels of major and micronutrients on yield and economics of hybrid napier International journal of chemical studies, Vol.10, No.4; 34-38 2022.

- Jag jiwan Ram, Sridhar J N, and **Pralhad**, "Effect of cotton seed cake and its effect on milk yield and its composition in HF-Deoni crossbred cows". The Pharma Innovation Journal Vol. 11, No. 12, pp. 4945-4948, 2022.

- Manjunath Patil, Ramesh, B.K., **Pralhad** Prevalence of Gastro-intestinal parasitism and anthemintic resistance in GI nematodes of small ruminants in semi-intensive farms of Kalyana Karnataka region of Karnataka J. Exp. Zool. India Vol. 26, No. 1, pp. 595-604, 2023

2. Abstract

* Hemalatha K J, Ramesh G, Kurubar A R, Umesh M R and Amaregouda, (2023) Influence of different nitrogen levels and harvesting stages on nutrient uptake in ashwagandha (*Withania somnifera* (L.) Dunal). Souvenir: International conference on multidisciplinary research and global transformation, 10th and 11th November 2023. ISBN:978-93-94779-91-4 pg.15.
* Prasanna kumar NR, Venkararavanappa V, Rahna RR, Sridhar V, Govindappa MR, Basavarajappa MP, **Hemalatha K J** , Ashwathnarayana DS, Krishna reddy M and Smuel DK. Survey and characterisation of *Thrips parvispinus* infesting chilli in South India. National Symposium on Horticultural Crops of Humid Tropics for Nutritional and Livelihood Security, 02-03, December 2022, Madikeri. Pg no. 213.

* **Hemalatha K J** , Kattimani K N , Ramesh G , Kurubar A R , Umesh M R and Amaregouda, Influence of different nitrogen levels and harvesting stages on nutrient uptake in ashwagandha (*Withania somnifera* L. Dunal)" in International conference on multidisciplinary research and global transformation (ICMRGT-2022) organised by RES Foundation held in 10th and 11th of November 2022. pg no. 112.

- Hemalatha K. J. And Dr. Kattimani K. N., Optimization of nitrogen levels and harvesting stages for enhancement of growth, yield and quality in ashwagandha. National PG research conference-2022 compendium, 13th September 2022, UASR/PC/NPRC/2022-23 pg no. 90-91.
- Dr Prakash, Dr Shreedhara, DrJagjiwan and **Dr Pralhad** 2022–23 Modern Poultry rearing technologies University of Agricultural sciences, Raichur. (UASR/PC/B-8/2022-23)

3. Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

Example:

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

- **Bhat , S. N**., Kamble, Anand, Satyanarayana Rao, Halepyati, A.S. and Venkanna, R. 2022, 2022 Long term effect of organic, integrated and inorganic nutrient management practices on soil properties in a Vertisol **Extended summary** : National seminar on "*sustainable food production systems for self reliant & climate resilient agriculture* conducted by UAS, Dharwad during 16-18, June 2022.pp. 442
- Praven Karikatti, **Bhat , S. N**., Satyanarayana Rao, Mastana Reddy, Balanagoudar, S.R., and Veeresh, H, 2022 2022 Long term effect of different production methods on yield and quality of Rice in a Vertisol **Extended summary** : National seminar on "*sustainable food production systems for self reliant & climate resilient agriculture* conducted by UAS, Dharwad during 16-18, June 2022.pp. 114.
- Himagirish K.M., Balanagoudar S.R., Ravi M.V., **Bhat S.N**. and Ananda N. 2022 Structural indices of soils under different crops and management practices *VIIth International Conference in Hybrid Mode on Global Research Initiatives for Sustainable Agriculture & Allied Sciences, pp77-78*
- Education through online tools in agriculture Shreevani G N, Hemalatha K J, **Prahlad** and Veena T National conference for "Comprehensive transformstion in agricultural education – initiatives, challenges and a way forward" during 15-16th march, 2022 by NAHEP at UASR
- Awareness on holistic multidisciplinary scientific approach through arka actino plus in tomato among farming community Hemalatha K J, Shreevani G N, **Prahlad** and Veena T National conference for "Comprehensive transformstion in agricultural education – initiatives, challenges and a way forward" during 15-16th march, 2022 by NAHEP at UASR

10.B. Details of Electronic Media Produced

S. No.	**Type of media**	**Title**	**Details**
1	CD / DVD	-	-
2	Mobile Apps	-	-
3	Social media groups with KVK as Admin	1. Whatsapp Group (12 No.) 2. Telegram Group 3. Face book 4. Instragram 5. Twitter 6. YouTube Channel	KVK has formed 28 Whatsapp groups pertaining crop and village specific groups. KVK has its own YouTube channel where farmers are facilitated to have a glance at recent technologies uploaded in the channel.
4	Facebook account name	KVK Raichur (Profile) ICAR-Krishi Vigyan Kendra Raichur (Page)	KVK happenings/ Meetings/ Workshops/ Major events
5	Instagram account name	KVKRaichur	KVK happenings/ Meetings/ Workshops/ Major events
6	Twitter account name	ICAR-Krishi Vigyan Kendra Raichur	-
	YouTube channel name	ICAR-Krishi Vigyan Kendra Raichur	
	Website	**www.kvkraichur.org**	

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).

Sl. No	Particulars	Remarks
1.	Title of innovation	Staking techniques in cucurbitaceous crops for relay cropping system
2.	Thematic area	Horticulture
3.	Profile of innovator 	Name: Basavaraj S/o Sharanappa Address: Palakamdoddi, Kotlatkur (p) Raichur (Tq & Dist) Mobile No: 9740261023 Age: 31 yrs. Educational Qualification: B.tech Land: 17.7 ac
4.	Problem/ challenge addressed	Solo cropping, water scarcity, more pest and disease incidence due to lateral spreading and low income.
5.	Description of innovative practice/technology	* Bitter gourd followed by indian broad bean grown in staking method by adopting drip irrigation through solar system. * Bitter gourd seeds are sown in double row system to save input cost of drip lines. * Locally available wooden poles are staked in criss cross manner for longer durability and also harvesting of fruit to the interior of vines also easy. Indian broad bean is also sown as relay crop for higher and sustainable income.
6.	Practical utility	Pest and disease incidence is low due to maintenance of hygiene and effective spread of pesticide. Input cost for the 2nd crop is almost reduced by 75% and 90% saving of water.
7.	Source of information	Innovation technology like staking method for cucurbitaceous crops created with the help of father.
8.	Economics / Profitability of innovation / technology (costs and return per unit/ intervention / area / household)	* 50 % reduction in cost of drip pipe line * 75% reduction in the cost of land preparation and other cultural practices. * 20% reduction in spraying of chemicals.
9.	Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting	* Fellow farmers are happy with the result and 10-12 farmers adopted the technologies in their fields.
10.	Illustrate with high quality photos with caption, graphs	



KVK Raichur Scientist visit to Bitter gourd crop in staking system



Innovative farmer Basavaraj in Bitter gourd field



Indian Broad Bean as a relay crop in Bitter gourd field



Indian Broad Bean as a relay crop in Bitter gourd field

Success of Ramakrishna Through Integrated Farming System

Sustainable agriculture is an integrated approach in a reliable way to obtain fairly high farm yield and managing and recycling the resources in order to address critical aspects of sustainability. Under the gradual shrinking of land holding, Integrated farming system can be proved as viable approach to enhance the sustainable economic growth of the farming community. IFS is considered to be the most powerful tool for enhancing the profitability of small and marginal farmers.

Rangappa father of Ramakrishna begins his agriculture journey with minimum of five acre of land holding and growing only two crops *viz.* Sorghum and Bengalgram. Mr. Ramakrishna born with physical disability and he has completed his agriculture diploma from University of Agriculture Sciences, Raichur with maximum knowledge about new technologies in agriculture. With the support of Krishi Vigyan Kendra, Ramakrishna put a step forward in extending technologies in the field. He put his honest and sincere efforts to get maximum output by minimum investment.

Interventions by KVK

ICAR-KVK, Raichur play active role in imparting the new technologies in the farmer's field .

1. Introduction of Horticultural components.
2. Crop diversity
3. Propagation and nursery management
4. Introduction and establishment of vermicompost unit

5. Water management practices
6. Awareness on integrated nutrient management practices
7. Integrated pest and disease management approaches
8. Scientific management of Dairy and sheep rearing
9. Value addition and marketing

Impact of the intervation

- As per the direction by the KVK, Rangappa father of Ramakrishna introduced lemon as a initiation of integrated farming system.
- 300 lemon plants with inter crops like palak, coriander, amaranthus, and other leafy vegetables through out the year. In mango and sapota orchard, ashgourd and pupmkin will be grown depending on the market demand. Vegetables like chilli, tomato, cauliflower, bhendi is flourishing in the extended land. Curryleaf, drumstick and fodder grass is grown all along the bunds without wasting a inch of land.
- Seedlings required to the land are grown by themselves and also generates profits from selling seedlings to needy fellow farmers.
- Resource recycling is one of the important aspect in IFS (Two buffaloes, Five Dairy Animals, Kenguri and shiroye sheeps and poultry birds). Establishment of vermicompost and utilizing the same to own land enhanced the fertility status in the soil. In the recent years, the percentage of organic carbon status in the soil has increased.
- Initially they find it difficult in marketing the produce. As suggestion and support of the KVK, Ramakrishna purchased Sugarcane juice extraction machine and direct selling of juice to the consumers. Direct marketing of organic mango, Papaya, lemon, drumstick etc. given good economical return. In advanced stage they have introduced mechanization in agriculture for the first time in the jurisdiction by adopting seed sowing machine, power sprayer, drip irrigation system, fodder chapper, tractor and own vehicle for transportation of farm produce to market.
- Irrigation is done only by means of drip irrigation system to all the cultivated land from two borewells and one traditional well. And also fishery is also a component in IFS. Foe fish food, he uses left over fodder, low graded pulses and cereals, domestic wastes etc.

Impact of employment generation:

The present study revealed that integrated farming system plays major role in generating adequate rural employment throughout the year as farm activities is a continuous process. Nearly 30 farm labours works in field everyday along with the family members to contribute in increasing the productivity.

Economic Gain: 5 acre of land has been extended to 25 acre only from the revenue earned from agriculture. From this 25 acre of land the output per year is as follows:

IFS Components	Area (Acre)/Production	Income (Rs.)
Vermicompost	20 tons	1,00,000
Sugarcane	0.5 ac	2,00,000
Cotton	4 ac	4,00,000
Castor	1.5 ac	1,00,000
Redgram	1.5 ac	1,00,000
Papaya	2.5 ac	6,00,000
Lemon	2 ac	2,00,000
Mango	3 ac	4,00,000
Sapota	1 ac	1,00,000
Guava	2 ac	4,00,000
Vegetable	8 ac	8,00,000
Dairy	7 Animals	1,50,000
Sheep	15 Animals	75,000
Honeybee	2 lt	-
Fish	20 Kg	-

Conclusion: The present study concludes that Intigration of various agricultural and allied enterprises will definatily gets assured market and reliable income. To strengthen the statement Ramakrishna and family earns 33 to 36 lakhs income every year and also the family received several awards – best farmer award (2009, UAS Dharwad), best Horticulture farmer award (2014,UHS Bagalkot) and Dr. G.K.Veeresh Endowment best farmer award (2017, UAS Bengaluru).

Farm mechanization







Horticulture components



Sl.No	Particulars	Remarks
11.	Title of innovation	**1.Drip laterals rolling machine** **2.Bullock drawn chemical fertilizer drilling machine**
12.	Thematic area	**Engineering (Farm Machinery)**
13.	Profile of innovator	**Name**:AmareshSharanappaKote **Father's Name**:Sharanappakote **Address of correspondence:** Jakkalddinni,Manvi (Tq),Raichur(Dist) **Mobile No.:**8861233616 **Education : 7th standard** **Age : 32** **Land holding :5 ac** 
14.	Problem/ challenge addressed	**1**. In drip irrigation system rolling of drip laterals is a very difficult task and also improper rolling adversely affect the life span of the laterals. If we employ labour for rolling of drip laterals it will time consuming and laborious. **2.**Crops in which there is a problem of root grubs (especially in chilli, groundnut even in sorghum crops etc.) soil application of phorate or carbofuronchemicalsare recommended. While applying these chemicals the persons involved in that work faces health problem.
15.	Description of innovative practice/technology	**1.** Drip system was popular and area under system was increasing because of its usefulness under less irrigation water, farmers are eager in adopting drip and they will go for heavy investment. But after installation within three to four years the drip system may become useless in most of the farmers field because of improper handling of the drip laterals. For this kind of situations this farmer innovation becomes very useful. He innovated drip laterals rolling machine which is portable and can be drag across the field and roll the drip laterals very neatly without any bends. He employed the technique of umbrella folding and opening for this drip laterals rolling machine. Because of that after rolling of laterals it gives a bundle of drip laterals. With this implement we can easily roll the drip laterals without drudgery in handling and also saving time and also number of labours .It is most important to maintain the lifespan of laterals. Hence **drip laterals rolling machine** is one of the important technology at this juncture. **2.** Incrops which needs chemical drilling where there is a problem of root grubs (especially in chilli, groundnut even in sorghum crops etc.) soil application of phorate or carbofuronchemicalsare recommended. While applying these chemicals the persons involved in that work faces health problem. To overcome this he innovated the chemical drilling implement by using simple materials like 25 lit water bottle which is fit to the bullock drawn harrow. He also made adjustment to regulate the rate of application. This implement helps to apply those chemicals without any contact with human body and also helps in application of chemicals uniformly which is not possible by humans.
16.	Practical utility	**1.**Heinvented drip laterals rolling machine which is portable and can be drag across the field and roll the drip laterals very neatly without any bends. He employed the technique of umbrella folding and opening for this drip laterals rolling machine. Because of that after rolling of laterals it forms bundles. It helps in maintaining lifespan of laterals by neat rolling of laterals. With this implement we can easily roll the drip laterals without drudgery in handling and also saving time and also number of labours. This is one of the important technologies at this juncture. **2.** Bullock drawn chemical/fertilizer drilling implement helps to apply chemicals/fertilizers without any contact with human body and also helps in application of chemicals uniformly which is not possible by humans. Besides soil application it also helps in covering chemical/fertilizers with blade harrow attached in the implement.
17.	Source of information	His own innovation
18.	Economics/ Profitability of innovation / technology (costs and return per unit/ intervention / area / household)	**Cost of implement :** **1.Drip rolling machine:** Rs.5000/- (Rupees Five thousand only) For rolling drip laterals of one hectare -7 men labourers will be engaged for one day. It may cost around Rs.2500/- Beside this it also protect laterals from bending or damage while rolling and helps in maintain life span of laterals

		2. Bullock drawn chemical/fertilizer drilling implement Rs.5000/- for chemical drilling implement Drilling chemical/fertilizer for 1ha -1 labour engaged for one day and also one bullock harrowing is needed for covering applied chemical/fertilizers(1labour =Rs.350/- and 1 Bullock pair= Rs.1000/-). Hence manual chemical /fertilizer drilling cost = Rs.1350/- per one drilling. Beside this it also helps in avoiding chemical contact with human
19.	Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting	These technologies were used by the number of farmers in his village and also by the neighbouring villages. They will get the implement from him and get work done by these implements. The few beneficiary farmers name are here • Bettappa,Jagatagal • UrukundappaGejjebhavi • Duragappa,Jakkaladdinni • LaxmanaPikasi,Jakkaladdinni -7996077093 • Rachappakurubaa,Jakkaladdinni-9743131228 • Ravikumar,Sangawar-9845557413
20.	Illustrate with high quality photos with caption, graphs	

PHOTO 1



Drip pipe-line rolling machine



Drip pipe-line rolling machine



Bullock drawn chemical drilling implement



Bullock drawn chemical drilling implement

POMEGRANATE - ARID GOLD MINE FOR FARMER IN SEMI ARID TROPICS



Name: Basavaraj, C. Gouda
Village: Ganekal
Lingasuguru (Tq), Raichur(Dist)
Mobile No. : 9448364626
Education : BE (E&E)
Age : 40
Land holding : 48 ac



EXPORT QUALITY POMEGRANATE PRODUCTION

Challenges Faced:
- Repeated drought situation
- Bacteria blight and wilt in Pomegranate
- No assured irrigation
- Thought of cash crop

Technology Adoption:
- Fencing the orchard
- Drip irrigation
- Vermicompost
- Fertigation
- HDP-sprayer
- Grading and transporting
- Organic spraying







Description of Entrepreneurship:
- Cultivating Papaya (Red lady-786) in an area of 48 acres

Export:
- Bangladesh, Kuwait , Qatar, Chennai and Mumbai

Special Achievement:
- Vendors directly come to his farm
- The price is fixed by the farmers
- production of export quality of fruits
- Marketing of second grade fruits in local market
- No middlemen
- Higher profit with low cost cultivation by following integrated crop management practices

Economics of the venture:

Sl. No.	Crop	Yield (t.)	Gross returns (Rs.)	Expenditure (Rs.)	Net returns (Rs.)	Year
1	Pomegranate	100	7000000	662500	6337500	2nd year
2	Pomegranate	198	9900000	542500	9357500	3rd year
3	Pomegranate	340	21080000	723800	20356200	4th year

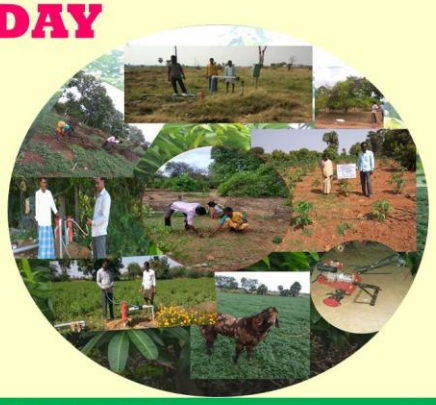


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ARID FRUIT BASED MIXED FARMING IS NEED OF THE DAY



Name : Rangappa Shavati
Village : Ganamuru
Panchayat : Chandrabanda
Tq & Dist : Raichur
Mobile No. : 8971920667
Education : 7th
Age : 56 Years
Land holding : 25 acres



CITRUS SENSITISED THE LIVELIHOOD

Milestones of Successful Entrepreneurship

Year	Crop	Technology	Remarks
2001	Sweet orange & Lemon (Kagzi)	Intercropping of cluster bean, onion, Tomato etc.	Additional income by intercropping
2002	Lime	Integrated crop management	Reduced cost of cultivation
2004	Lime	Direct marketing to consumer	Fetched higher prize
2005	Sweet orange	Extension of area	
2007	Sweet orange, Lime and Papaya	Installation of drip irrigation to all fruit crops	Efficient utilization of irrigation water
2008	Vermicompost and poultry units	Organic manure production	Quality fruits production
2009	Pomegranate	As intercrop in mango	High density planting
2010	Purchase of Tractor	Mechanization	Reduced cost of cultivation
2011	Excavation of farm pond in 2 acres	Soil and water conservation	Rain water harvest and bore well recharge
2013-15	Nursery, Giriraja birds	Backyard poultry farming	Introduction of upgraded breed
2017-18	Introduction of IFS Components	Introduction of Sirrohi Goat	Upgradation of local non descriptive goat
2018	Bell pepper /Tomato	Plastic mulching and drip irrigation drip irrigation	Efficient use of irrigation water and Zero cost weed management







Economic Gain:

- 5 acre of land has been extended to 25 acre only from the revenue earned from Horticulture and Agriculture crops.

Components	Area/Production	Income (Rs.)
Sweet orange	5 ac	5,00,000
Lemon (kagzi)	3.5ac	6,00,000
Mango	8 ac	5,00,000
Papaya	2 ac	4,00,000
Coconut	120 plants	50,000
Curry leaf	3 ac	4,00,000
Redgram	2.5 ac	1,00,000
Cotton	6 ac	3,00,000
Sugurcane	2 ac	2,00,000
Caster	2 ac	1,00,000
Animal Husbandary	9 cattle 30 poultry birds	50,000

















Family received several awards –Best farmer award (2009, UAS Dharwad),
Best Horticulture farmer award (2014,UHS Bagalkot)
Dr. G.K.Veeresh Endowment best farmer award (2017, UAS Bengaluru).

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APPLE BER BASED MIXED FARMING FOR SUSTAINED INCOME



Name: N. D. Chari
Village : Masadoddi
Tq & Dist : Raichur
Mobile No. : 9663305502
Education : B. Sc.(Agri.)
Age : 48 Years
Land holding : 32 acres



INTEGRATED APPROACH FOR FRUIT PRODUCTION

Challenges Faced:
- Low fertility and drought
- Lesser yield crops due to scarcity of moisture
- Lower yield of borewells
- Scarcity of Labour and marketing problem

Technology Adoption:
- Rain water harvesting
- Milk production by desi cows
- Fodder bank and Hydroponic unit
- Vermicomposting and Jeevamrutha
- Fertigation
- Mechanization for drudgery reduction



Description of Entrepreneurship:
- Cultivation of Apple Ber, Dragon Fruit, Mango (Beneshan and Dashahari), Coconut, Jamun , Jasmine, Sandalwood, Rosewood, Teak and *Melia dubia* in an area of 32 acres

Economics:
- The returns from his organic produce started since two years. He is getting Rs. 9.0 lakhs by mango during 2017-18 and Rs.20.2 lakhs during 2018-19 by selling Apple Ber, Mango and Milk.
- Dragon Fruit, Coconut, Jamun, Jasmine, Sandalwood, Rosewood, Teak and *Melia dubia* yet to be initiated for their economic yield.






ALLIED ENTERPRISES



Poultry : Asheel birds -200, Giriraja birds - 200 and Turkey birds -20



Sheep Rearing: Kenguri Ram lambs (40) under stall fed rearing system



Dairy farming: Gir cow , Ongole and Jersey (total 7no.)



Vermicomposting Unit : 5 tonnes capacity per year

INNOVATIVE APPROACHES FOR COST REDUCTION

- Atomized supply of Jeevamrutha- It helped in less pest and diseases, production of quality fruits
- Mechanized inter cultivation and spraying–By using rotary/power tiller expenses on these activities reduced 30 % of labour cost
- Branding and Marketing- door delivery of products with concept of cultivator to consumer
- Selling of fruits through directly consumer having 1000 customers

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

TRANSFER OF TECHNOLOGY THROUGH VIRUTAL MODE

KVK has been involved in promotion of Mango as a strategy for income security to farmers in red soil based cropping system. Lot of productivity constraints have been faced by the Chilli growers related to pruning, nutrition, plant protection and post harvest management. KVK having limited man power was unable to address these issues of Chilli growers who are scattered in the district. It was also difficult to reach each Chilli grower during the COVID pandemic period. In order to address issues, KVK organized Virtual Farmers' Field School on Chilli & IFS comprising of 5 different sessions on orchard management, pruning, nutrition, plant protection and post harvest management. KVK formed WhatsApp group of chilli growers and each virtual school session link was sent to the group and KVK experts interacted with the chilli growers. The contents for each session was pre-recorded and virtually video screened through virtual mode followed by discussion. After the completion of each session, the contents of session was uploaded in the youtube.This mechanism was found to be very effective in achieving the desired objective.

- Direct seeded rice (DSR) technology was demonstrated and sufficient publicity was given through mass media, print media and electronic media. Field days organised to show the impact of technology at present around one lakh acre are is under DSR.

- Vegetable juices for health management
  Interventions: Hands on training to 2 CIGs

Process:
Technology: Evaluation of juices from cucumber, carrot, bitter gourd and mineral vegetables
Hours spread:
Economic gains: Rs 200-1000
Employ generation: for ten persons

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	Crops	To reduce the infestation of weed i.e Cyprus rotundus, the farmers practice weekly harrowing throughout the end of rainy season i.e from April to October. Then they will take up Rabi Sorghum crop.	Every week harrowing with blade goes on cutting the fresh sprouting meristems of the weed Cyprus rotundus. This weekly cutting results in exhausting of the nutrients present in the bulbs of weeds and no chance for photosynthesis by leaves. Hence, the roots get deprived of the fresh photosynthates on one hand and on other the stored energy gets lost due to growth of fresh meristems every week, but they get cut off with harrowing blade. Thus, the weed has no chance of re-growth when weekly harrowing is done regularly from April to October.	The weekly cutting results in exhausting of the nutrients present in the bulbs of weeds and no chance for photosynthesis by leaves. Hence, the roots get deprived of the fresh photosynthates on one hand and on other the stored energy gets lost due to growth of fresh meristems every week, but they get cut off with harrowing blade. Thus, the weed has no chance of re-growth when weekly harrowing is done regularly from April to October
2	Chilli	Covering seedling stem with piece of waste drawing sheets	Use of waste drawing sheet piece to protect plants from sun scorch	In young chilli seedlings crop grown on plastic mulching are likely to affect by heat of the plastic sheet during summer. To avoid sun scorch of seedlings, a piece

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
				of waste drawing sheet is covered to the stem of the seedlings
3	Livestock	Animal washing in Canal/river water	For the treatment of foot & mouth disease	It facilitates drying of wound and protection from flies
4	Livestock	Turmeric powder mixed in ghee, heated and applied	For the healing of wound	Turmeric has got anti microbial properties.
5	Livestock	Washing of hoves of animals with lime water	For the treatment of foot and mouth disease	Lime has antiseptic property. It kills germs and healing is fast.
6	Livestock	Zeera & Garlic are boiled in water and is fed	For the treatment of fever	Act as anti cold & fever.
7	Livestock	• Tobacco shoot with Kerosine oil paste is made and applied Leaves of neem or neem oil	For the treatment of ecto parasite infestation	Tobacco contain nicotine that kills ecto parasite. Neem has got ecto parasiticadal properties.

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 :Nil

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: **Nil**

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

A. Status of establishment of Lab : Good and run smoothly

1. Year of establishment :2005
2. List of equipments purchased with amount : 2005-06

Sl. No	Name of the Equipment	Qty.	Cost	Status
1	Analytical balance	2	212400	Working
2	Digital Balance	1	115640	Working
3	pH meter	2	25370	Working
4	Conductivity bridge	1	34810	Working
5	UV visible spectro photometer for analysis of sulphur & phosphorous	1	660800	Working
6	Shaking machine	2	354000	Working
7	Water bath Shaker	1	64900	Working
8	Centrifuge apparatus	1	10620	Working
9	Voltage stabilizers (Constant voltage transformers)	10	50000	Working
10	Pressure Vacuum Pump	2	82600	Working
11	Automatic pipetting machine	1	94400	Working
12	Double distillation unit with softener/ Demineralizer plant	2	313880	Working
13	Oven	1	70800	Working
14	Trolleys	4	50000	Working
15	Flask stand	75	83190	Working
16	Funnel Stand	75	92040	Working
17	Beaker Stand	75	53689.5	Working
18	Burette Stand	10	8850	Working
19	Test Tube Stand	75	88249.5	Working
20	Muffle Furnace	1	96760	Working
21	Fume Hood	1	150000	Working
22	Scoops	2 sets	2360	Working
23	Mortar and pestle	2	23600	Working
24	Sieves	8	38940	Working
25	Trays	100	59000	Working
26	Hot plate	1	37760	Working
27	N analyzer for soil, water and plant analysis including distillation unit	1	590000	Working
28	Flame photometer for analysis of sodium, lithium and potash	1	188800	Working
29	Hot air oven	1	70800	Working
30	Multi channel Magnetic stirrer	1	64900	Working
31	Refrigerator 265 Ltr	1	32000	Working
32	Dry plant Sample Grinder	1	88500	Working
Sl. No	**Name of the Equipment**	**Qty.**	**Cost**	**Status**
33	Bunsen Burner	2	12243	Working
34	Desktop computer, laser printer 1 KVA battery	1	56640	Working
35	1.5 ton Air Conditioner	1	34220	Working
36	UPS 10 KVA	1	369930	Working
37	40 KVA Generator	1	642000	Working
38	Fire extinguisher	3	29499.9	Working
39	RO Purifier Type – II	1	550000	Working
40	Chemicals	-	736320	Working
41	Glass wares	-	650000	Working
42	Plastic wares & Lab consumables	-	530000	Working
43	AAS	1	2485000	Working
44	LPG Gas connection	1	3758	Working
45	Mridaparikshak	2	172000	Working
	Total		**1,01,81,270**	

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	2993	2547	1549	603850
Water Samples	1206	1188	858	127700
Plant samples	0	0	0	0
Manure samples	1	1	1	150
Total	**3785**	**3399**	**2408**	**651400**

C. Details of samples analyzed:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	**386**	**321**	**81**	**77400**
Water Samples	**29**	**16**	**12**	**2900**
Plant samples	**-**	**-**	**-**	**-**
Manure samples	**-**	**-**	**-**	**-**
Others (specify)	**-**	**-**	**-**	**-**
Total	**415**	**337**	**93**	**79300**

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.	Feb-2017	Working
2.	March-2017	Working

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

	During 2021	During 2022	Cumulative progress (Total)
Samples analyzed (No.)	**-**	**-**	**-**
Farmers benefited (No.)	**-**	**-**	**-**
Villages covered (No.)	**-**	**-**	**-**

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		**81**	**321**	**386**	**386**
Mobile Soil Testing Kit					

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 participate (No.)	Media coverage (No.)
1	**108**	**386**	**-**	**-**	**12**	**2**

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)
Organic Pulse	200	20	1000	1400
Organic Paddy	120	3-5	3000	6000
TS3-R	35000	70	3000	6000
DSR	12000	15	20000	26000
Grading of pulses with separator	1065	10%	4500	4800
Value addition activities	250	5%	3000	5000
Mushroom activities	150	2%	-	4000
Improved breeds for high-tech and high profitability in cows and buffalo	250	25 %	2600	7800
Breed development to optimize investment by upgrading available native breeds instead of buying high-value improved breeds in goat	320	10 %	3500	5500
Better management practices of new born calf, heifers and pregnant cows to ensure healthy cows and disease-free environment for the calf and heifers	480	35 %	6000	9000
Importance of supplementary feeds for milking cows, especially balancing green and dry fodder to ensure the animals get balanced diet round the year	520	45 %	6000	9000
Management practices of health in dairy animals including preventive, prophylactic and curative measures	150	30 %	4000	6000
Requirement of green fodder for dairy animals and cultivation practices for grasses, legumes, cereals for developing combination for balanced diet to reduce the production cost in dairy animals.	620	40 %	5500	10000
Backyard rearing of improved variety of birds (Giriraj)	80	34 %	450	850
Integrated farming system	380	20 %	5000	9500
Lamb fattening of kenguri ram lambs under stall fed system of rearing	180	15 %	4100	6450
Nipping in Bengalgram	150	50	Rs.20,000/ha	Rs.26,000/ha
Feeding of Silage Fodder to CB Cows	50	50	Rs.30,000/ lactation/cow	Rs.40,000/ lactation/cow
INM in Groundnut	100	40	Rs.25,000/ha	Rs.35,000/ha
Introduction of Arka Prasanna improved variety in Ridegourd crop	25	50	Rs.80,000/-ha	Rs.1,10,000/-ha
Introduction of Mustard variety NRCHB-101 in Paddy fallows	154	80	Rs.25,000/- ha	Rs.35,000/- ha
Integrated management of Pink Bollworm in Bt Cotton	45	60	Rs.15,000/- ha	Rs.25,000/- ha
Azolla as animal feed	75	50	Rs.35,000/cow /lactation	Rs.40,000/cow / lactation
Mango special (micronutrient mixture) application	75	60	Rs.80,000/ha	Rs.1,00,000/ha
Use of Arka Vegetable special for micronutrient management in vegetables	30	50	Rs.64,000/- ha	Rs.75,000/- ha

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

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

1. Direct Seeded Rice (DSR) : Simple solution to water crisis

It is an eco-friendly, water saving, energy (fuel) saving and environment safe technology of rice cultivation through direct seeding of rice using seed drill.

Benefits of DSR:

* Saving in seeds @ 13 kg/ac
* Avoids puddling and transplanting cost
* Saves fuel @ 7.3 lakh litres for Raichur district
* Saves cost of production @ 7562/ac
* Reduce greenhouse gases
* 10-15 days early maturity
* 50 % reduction in water usage
* Reduced cost of plant protection and fertilizers.

Sequence of events with popularization of DSR by KVK, Raichur

* Identification of village and farmers
* farmers meeting at village sirwar to emphasise on DSR
* Demonstration of DSR method in the field using happy seeder at Sirwar village
* Press meet, press note, radio coverage, TV programmes leaf lets, mobile SMS, GD etc.
* Surrounding village farmers visit to demo plot and detailed discussion about DSR
* Mega field day on DSR on 12-12-2012.

Economics (per acre)	Direct Seeded Rice	Transplanted Rice
Input cost (Rs)	5533	6895
Operational cost (Rs)	3500	9700
Yield (q/ha)	32	30
Net returns (Rs)	26167	16405
% Increase in NR with DSR	**59.50**	



2. Impact of demo of Spiral grader enhancing the income of redgram growers:

KVK, Raichur is undertaking demonstration ofintegrated crop management in redgram since many years. As there is a high demand for clean and graded produce farmers did not have any option but to sell the produce as it is. From the year 2013-14 a simple device called spiral separator has been introduced as a component of ICM. This device works on the principal of gravity force, does not require either electricity or fuel. On an average about 60 kgs pulses can be graded through this device which is suitable for grading bold and round seeded grains. A handy device within affordable cost proved to be enhancing the income of the farmers to the tune of Rs. 250-300/qt. of redgram. A total of 1065 farmers from raichurtaluka used this device to grade 13403 q. resulting in additional income of Rs. 3920900 over six years. The year wise details of total quantity of redgram graded is presented here.

Impact of demo of Spiral grader enhancing the income of redgram growers		
Name of village	**No. of farmers**	**Qty of the grains graded (q.)**
2015-16		
Muranpur	60	1020
Kalmala	20	330
Neelagal	25	540
Hemberal	30	1200
G. hanumapur	65	1080
Kurdi	50	1290

Impact of demo of Spiral grader enhancing the income of redgram growers		
Name of village	**No. of farmers**	**Qty of the grains graded (q.)**
Kallur	25	300
Katletkur	15	345
Atkur	20	420
2016-17		
Purthipli	1	80
Muranpur	100	4000
Kalmala	125	250
Bevinbenchi	30	180
2017-18		
Purthipli	15	113
Matamari	12	76
Muranpur	35	50
Kalmala	125	189
Hembaral	160	900
Askihal	2	180
Total	**915**	**12543**
2018-19		
Purthipli	12	086
Matamari	40	274
Muranpur	25	155
Kalmala	52	245
Rampura	17	055
Askihal	04	045
Total	**150**	**860**

i) Large scale adoption of JG-11 variety of Bengalgram crop:

Bengalgram is the important Pulse crop of Raichur district, mainly cultivated under rainfed situation. It is being grown in an area of 75,000 ha. The productivity of the crop was very less due to decreasing yield potential of Annigeri-1 and JAKI-9218 varieties cultivated by the farmers. From 2014-15 onwards, KVK started promoting JG-11, a high yielding variety. Integrated Crop Management practices were also demonstrated along with JG-11 variety. From 2014-15 to 2018-19, KVK organised Front Line Demonstrations in 286 hectares of area covering 665 farmers and farm women. The demonstrations were organised under KVK's FLD programme as well as Cluster Front Line Demonstration under NFSM programme. The demonstrations have been very successful as there was 20-25 percent increase in yield.

Five years of demonstration programme has produced 2600 quintals of seed material which FLD farmers supplied to other farmers. Apart from this, KVK produced 65 quintals of JAKI-9218 variety and supplied to farmers.

There was heavy demand for the seed and KSSC took up seed production and supplied more than 6000 quintals of seeds during last four year period. Thus, JG-11 variety is spread in nearly 70 percent of total area cultivated in Raichur district.

ii) Large scale adoption of Redgram+Foxtailmillet intercropping system:

Maize is cultivated as a sole crop in Raichur district over an area of 30,000 hectares under rainfed situation. The crop has fetched good returns to farmers owing to good yield and less cost of cultivation. However, during the last decade the climate variability has severely affected the productivity. The crop is sown during the months of June-July. The last decade has witnessed severe climatic changes viz., delayed on-set of mansoon and long dry spells. This situation has affected the vegetative stage as well as tassel initiation stage resulting in poor productivity of crop. At present the district average productivity of Redgram is 16 quintals per hectare.

To minimize the risk of sole cultivation of Redgram, KVK introduced TS-3R variety of Redgram, a medium duration variety (140-150 days) as an intercrop in Maize. KVK demonstrated Maize+Redgram intercropping system in 38 hectares area in 7 villages during last 4 years. Apart from introduction of TS-3R variety, KVK demonstrated Integrated Crop Management practices. KVK conducted training programme for farmers and Extension Functionaries on Maize+Redgram intercropping system and ICM technologies. Maize+Redgram based intercropping system has created big impact in terms of increased net income of farmers compared to farmers who have cultivated Maize as a sole crop. These demonstrations have created a huge impact in the demonstrated villages of Mahalingapur and Nabhapur in Gadag block and Kochalapur village in Ron block. The intercrop technologies have been spread in more than 500 hectares in KVK adopted villages as well as neighbouring villages during 2017-18 & 2018-19.

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

PART XIII - LINKAGES

13A. Functional linkage with different organizations

Sl. No.	Organization/agency/Institute	Type of interaction
i	**ICAR Institutes**	
1	IIHR, Hesaraghatta, Bengaluru	Procurement of quality planting/seed material, other technological inputs and transfer of technologies related to vegetable crops suitable for the region. Participation of KVK scientists in Horticulture fair organised every year.
2	ICAR-NBSS&LUP, Regional Center, Hebbal, Bengaluru	Conducted soil inventory of KVK campus and soil profile of black and red soil of KVK jurisdiction.
3	ICAR-NBAIR, Hebbal, Bengaluru	Procurement of mother cultures (*Metarhiziumanisoplea, and pseudomonas fluroscence, P. entomophila and Trichodermaasperellum*) and supply of bio agents for control of Fall Army Worm. Training of KVK scientist pertaining to Integrated pest and disease management.
4	ICAR-NDRI, Southern Regional Station, Adugodi, Bengaluru	Awareness programme on raising fodder using hydroponic method
5	ICAR-IGFRI, Regional Research Station, Dharwad	Procurement of quality planting/seed material of fodder varieties
6	ICAR-IIPR, Kanpur	Production and supply of quality seed material of Greengram and Bengalgram to farmers of the region and adjoining districts
7	ICAR-DOGR, Rajgurunagar, Pune	Procurement of onion seeds and production technologies
8	ICAR-IISR, Indore	Procurement of breeder seeds of soybean variety NRC-130 for further multiplication at KVK
9	ICAR-NBAIIR, Bengaluru	Procurement of bio-agents for assessment of fall armyworm
ii	**State Agricultural Universities (SAUs)**	
1	UAS, Raichur	Technical guidance for Pre-action plan Farm trials under ZREFC/ZREAC Seeds and seedling/ planting materials production Updating of latest technologies Involvement of Scientists in the training programmes and technical meetings
2	UAS, Bengaluru	Technical know-how on agricultural technologies
3	UAS, Dharwad	Technical know-how on agricultural technologies
4	UHS, Bagalkot	Technical know-how on agricultural technologies
5	KVAFSU, Bidar	Technical know-how on agricultural technologies
iii	**Line Departments of Karnataka**	
1	Department of Agriculture	• Selection of farmers for KVK programmes • Implementation of ToT programmes • Training to farmers and departmental officials • Area expansion of newly released varieties
2	Department of Horticulture	• Selection of farmers for KVK programmes

Sl. No.	Organization/agency/Institute	Type of interaction
		• Close linkage is built with state Department of Horticulture in promoting various developmental activities • Training to farmers and departmental officials
4	Department of Animal Husbandry	• Selection of farmers for KVK programmes • Various animal production programmes *viz.*, dairy, poultry, goat and sheep rearing, etc. • Production of cattle feed and forage • Animal health camps

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

13B. Details of linkage with ATMA

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Innovative practices of Integrated Farming System for improving livelihood and doubling income of SC farmers	Competitive	ICAR, GOI	30.00
Empowerment of small and marginal farmers in Integrated Farming Systems through strengthening of missing link in six districts of Kalyan Karnataka region.	Competitive	RKVY, GOK	45.5
Establishment of centre of excellence for IFS	Competitive	RKVY,GOK	150.00
Mitigation of effect of COVID-19 outbreak through empowerment of rural women and youth by incorporating health foods, immunity boosters and life skill training methods	Competitive	RKVY, GOK	192.00
FPO formation along with IIMR	Institutional	IIMR, GOI	20.00

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**				
		District Farmer Advisory Committee (DFAC)	1	-	Participant
		Rabi Campaign at Kerimani, Halki & Muragod	1	-	Participant
		ATMA Steering committee meeting	1	-	Participant
02	**Research projects**				
	Training programmes				
		Integrated crop management of Paddy	1	-	Resource Person
		Improved cultivation practices in Bengalgram	1	-	Resource Person
		Importance of soil testing and Use of soil health card	1	-	Resource Person
		Eco-friendly management of pest and disease in chilli	1	-	Resource Person
		Online training on Bt.Cotton pest and disease	1	-	Resource Person

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
		Integrated pest and disease management in Chilli	1	-	Resource Person
		Webinar training IPDM in Paddy	1	-	Resource Person
		Diagnosis and management of pest and disease of Kharif crops	1	-	Resource Person
		Soil fertility management	2	-	Resource Person
		Organic farming	1	-	Resource Person
		Production of vegetable in summer	1	-	Resource Person
		Vermicompost preparation and applications in horticulture crops	1	-	Resource Person
03	**Demonstrations**	1. Mushroom spawn sowing 2. Honey extraction 3.Azolla production 4. Use of Spiral grader for cleaning and grading pulses 5. Bakery products making 6. Seed treatment in pigeon pea, chickpea etc.. 7. Use of pheromone sleeve trap in chickpea, pigeon pea and vegetable crops 8. Use of nipping machine in pigeon pea	**3** **02** **05** **04** **02** **03** **06** **03**	**3** **02** **05** **04** **02** **03** **06** **03**	
04	**Extension Programmes**	01			
	Kisan Mela	01			
05	Technology Week	02			
	Exposure visit	04			
	Exhibition	01			
	Soil health camps	04			
	Animal Health Campaigns				
	Others (Pl. specify)				
	Publications				
	Video Films	**Strategic Research and Extension Plan of Raichur district.**			
06	Books	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	-	-	-	-

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
	Others (Pl. specify)	-	-	-	-
	Other Activities (Pl.specify)	-	-	-	-
	Watershed approach	-	-	-	-
07	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-
	Integrated Farm Development	-	-	-	-
	Agri-preneurs development	-	-	-	-

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

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

13E. Nature of linkage with National Fisheries Development Board: Nil

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

13F. Details of linkage with RKVY

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

13G. Kisan Mobile Advisory Services

Month	No of 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	0	0	0								
February	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0
May	5	5	0	3	1	0	0	1	0	5	2450
June	7	7	0	4	1	1	0	0	1	7	8544
July	6	6	0	4	0	1	0	1	0	6	12558
August	7	7	0	4	1	1	1	0	0	7	12588
September	5	5	0	4	1	0	0	0	0	5	12588
October	5	5	0	3	1	1	0	0	0	5	18566
November	4	4	0	4	0	0	0	0	0	4	18566
December	2	2	0	2	0	0	0	0	0	2	22572
Total	41	41	0	28	5	4	1	2	0	41	108432

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	
1	Vermicompost	2014	-	-	-	-	-	-	Water Scarcity
2	Horticulture nursery	2014	0.006	-	-	-	-	-	Needs renovation

3	Azolla	2017	-	-	4 kg	4 kg	-	400	-

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

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									
Pigeon pea			2.0	TS-3R	FS	1.16			
Chickpea			2.0	JG-11	FS				
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Fodder Crop									
Fodder Sorghum			2	Co Fs-31	TC	14.5			

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	
-	-	-	-	-	-

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	
-	-	-	-	-	-	-	-

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	54	30	
February	136	30	
March	661	30	
April	51	30	
May	03	30	
June	51	30	
July	03	30	
August	51	30	
September	31	30	
October	28	30	
November	18	30	
December	61	30	

14F. Database management

S.No	Database target	Database created
1.	Talukawise District database	Created
2.	Farmers Database	Created
3.	Crop wise, Village wise, Talukawise farmers database	Created
4.	KVK instructional farm database	Updating regularly
5.	OLRS	Updating regularly
6.	KVK portal – MPR and AE MPR	Updating regularly
7.	OFT	Created
8.	FLD	Created

9.	Training database	Created
10.	Seeds & planting material	Created
11.	All Extension activities	Created
12.	Farmers visiting to KVK	Created
13.	Field visits	Created
14.	District database	Created
15.	Soil & water test details	Created
16.	Database on KVK (i.e regarding KVK details, host institute details, staff information, KVK land information, KVK infrastructure, demo units, vehicle, office, lab, farm equipment & library)	Created
17.	HRD of KVK staff (i.e training/seminar/workshop attended by KVK staff)	Created
18.	Publications of KVK activities in news papers	Created
19.	Villages covered by KVK since inception	Created
20.	Kisan mobile advisory services – Subscribers and messages sent	Created
21.	Farm implements	Created

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 Paramparagath Krishi Vikas Yojana (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.	-	-	-	-	-	-	-	-	-	-	-

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	-	-	-	-	-

15.3 Fertilizer awareness programme organised

State	Name of KVK	Details of Activities/programme Organised	Number of Chief Guests	No. of Farmers attended program	Total participants
Karnataka	ICAR-KVK, Raichur	• Online training programme Video on soil sample collection and soil testing laboratory were screened during programme to provide	3	78	81

		complete information to 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	Sunflower	Pvt. Hybrids	20.0	50	20.0	50
2	Mustard	PM-25 & NRCH-101	10.0	25	10.0	25
3	Groundnut	K-9	20.0	50	20.0	50
		Total	**50.0**	**125**	**50.0**	**125**

a. CFLDs on Pulses:

Sl. No.	Crop	Varieties demonstrated and check	Allocated		Implemented	
			Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
1	Pigeonpea	TS-3R	20.0	50	20.0	50
2	Chickpea	BGD-103	20.0	50	20.0	50
3	Blackgram	LBG-791	20.0	50	20.0	50
		Total	**60**	**150**	**60**	**150**

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) –NA

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		OFT (No of Technologies)	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 Technologies)	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						
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

15.11 NARI

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
834	7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

15.13 KSHAMTA

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	Raichur	Raichur	Mandalagera	50 Families	146025			172310	373567
2	Raichur	Sirawar	Jakkaladinni	50 Families	115970			148442	224281
3	Raichur	Lingasugur	Adavibhavi	50 Families	173000			200680	462800
4	Raichur	Devadurga	Adakalagudda	50 Families	70750			84193	152666
5	Raichur	Sindhanuru	Raithanagar camp	50 Families	158496			209215	655920

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	Assessment of Entomopathogens for management of Fall Army Worm (*Spodoptera frugiperda*) in maize	Though the chemical pesticides gave better result in managing FAW, but cost pesticide chemicals is more as compared to bio-agents. Bio-agent also performed better only in favorable environmental conditions. Availability of Bio-pesticide in time at our locality is difficult.
2	Integrated pest and disease management in soybean	IPM technologies like pheromone traps, bio-agents, neem oil, sticky traps were helped in reducing the incidence of pest and disease. And also there was cost saving in PP chemicals.
3	Management of pink bollworm (*Pectinophora gossypiella* Sunders) in Bt.cotton	Technologies like Installation of pheromone traps, refuse crop, release of *Trichogramma bactereae* were helped in reducing the pest incidence. Number of chemical spray was reduced.
4	Integrated pest management in Brinjal	Practically management of shoot and fruit borer is very difficult, but due to the interventions like pheromone traps, application of neem cake, release of *Trichograma chilonis* and Bt. formulation helped in reducing the incidence of shoot and fruit bore and got highest price and yield.

16.2 Farmers feedback on performance of agronomic practices

Sl. No.	Agronomic practices	Farmer's feedback
1	Seed treatment of Trichoderma in Groundnut	Helps to reduce Root rot disease
2	Seed treatment with Biofertilizers like Rhizobium and PSB	Helps to reduce use of nitrogenous and phosphatic fertilizers
3	Use of pulse magic in Greengram	Foliar spray of Pulse magic in Greengram at flowering stage helped in healthy growth of plant without any deficiency symptoms besides increasing number of pods per plant. This practice resulted in higher grain yield.
4	Micronutrient management in Chrysanthemum crop	There was complete opening of flowers and tight buds with bright colored flowers were obtained and also flowers fetched good market price

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

Sl. No.	Farm machinery technologies	Farmer's feedback

16.5 Farmers feedback on performance of livestock and fisheries technologies

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

PART XVII - FINANCIAL PERFORMANCE

17A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	SBI	UAS, Campus, Raichur	10870	Saving Account	10408022745	584002003	SBIN0010870
With KVK	SBI		10870		30037758436		

17B. Utilization of KVK funds during the year 2021-22 (Rs. in lakh)

			(Rs. in lakhs.)		
Sl. No.	**PARTICULARS**		***BE-2022-23***	**RE-2022-23 Proposed**	**Difference**
A. REVENUE (Recurring Contingencies)					
1	Pay & Allowances		**1,45,35,000**	**1,20,15,715**	**22,00,000**
	B. Contigency		**₹ 16,36,000.00**	**1398871**	**₹2,37,129.00**
a	Travelling Allowances (TA)		₹ 1,50,000.00	94478	₹55,522.00
b	*Stationery, telephone, postage and other expenditure on office running, publication of Newsletter*		281000.00	281000	₹-
c	*POL, repair of ehicles, tractor and equipments*		150000.00	78938	₹71,062.00
d	*Food/refreshment for farmers / extension personnel @ Rs.150/person/day*		125000.00	125000	₹-
e	*Training material (need based materials and equipments for conducting the training)*		150 00.00	150000	₹-
f	*Frontline demonstration*		385000.00	339578	₹45,422.00
g	*On farm testing (on need based, location specific and newly generated information in the major production systems of the area)*		45000.00	40000	₹5,000.00
h	*Integrated Far ing System (IFS) (Min. 5 Units)*		50000.00	35000	₹15,000.00
i	*Training of extension functionaries*		50000.00	45000	₹5,000.00
j	*Extension Activities*		100000.00	78000	₹ 22,000.00
k	*Farmers' Field School*		0.00	0	₹-
l	*EDP (2 Nos.) / Innovative activities*		0.00	0	₹-
m	*Soil & Water Testing & Issue of Soil Health Cards*		50000.00	22000	₹28,000.00
n	*Maintenance of building (Repair & Renovation)*		100000.00	100000	₹-
o	*Nutrigardens - 30 demonstrations*		0.00	0	₹-
p	*Video Productio*		25000.00	25000	₹-
q	*Library (Purchase of Journal, Periodicals, News Paper & Magazines)*		25000.00	25000	₹-
	Total contingency		**1536000.00**	**1344516.00**	**191484.00**
	C. CAPITAL (NRC)		₹ 3,00,000.00	300000	₹-
1	Equipments & Furni ure		₹ -	0	₹-
2	Works		₹ -	0	₹-
3	Vehicle		₹ 9,00,000.00	900000	₹-
4			₹ -	0	₹-
	TOTAL(C)		**₹ 9,00,000.00**	**₹9,00,000.00**	₹-
	GRAND TOTAL (A+B+C)		**₹ 1,70,71,000.00**	**₹ 1,43,14,586.00**	**₹ 24,37,129.00**

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 2020	17,86,770=00	3,96,650=00	1,99,994=00	19,83,426=00
January to December 2021	19,83,426=00	27,54,452=00	12,23,050=00	35,14,828=00
January to December 2022	35,14,828=00	8,72,600=00	4,65,516=00	39,21,912=00

18. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. SN Bhat	Scientist (Soil Science)	Agricultural Research methodologies practices and their management	Samagara Vikas Welfare Society (SVWS) and College of Agriculture and Forestry Centeral Ayric university pasighat, Arunachal pradesh	4-24.10.2021
Mr. Devaraj Nayak	Technical Officer (Computer)	WEBINAR On Use of AI and ICT in agriculture Information Access and Dissemination	CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, NOIDA	14th March 2022
Dr. Shreevani GN	Scientist (Agri. Entomology)	International Conference on Vegetable Oils 2023 " Research Trade, Value Chain & Policy"	PJTSAU, Telangana	17-21.01.2023
Mr. Devaraj Nayak	Technical Officer (Computer)	E-Governance Applications in ICAR for Technical Personnel	Information Technology Unit ICAR-Indian Agricultural Statistics Research Institute Library Avenue, Pusa, New Delhi - 110 012	22-28. 02.2023

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