ICAR-KRISHI VIGYAN KENDRA RAICHUR (RAICHUR)

ANNUAL REPORT- 2020

(FOR THE PERIOD FROM 01 January, 2020 TO 31 December, 2020)

KVK Address

Senior Scientist and Head
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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, 2020 to 31 December, 2020.

- 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 - GENERALINFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR- KrishiVigyan Kendra P.B. No.329, UAS Raichur Campus,Lingasugur road Raichur – 584 102	08532-220196	08532-220196	kvkraichur@gmail.com kvk.Raichur@icar.gov.in	www.kvkraichur.org

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 Programme Coordinator with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. G.S. Yadahalli	-	09480696314	guruyadahalli@gmail.com

1.4. Year of sanction:

1.5. Staff position as on 31 December 2020

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. G.S. Yadahalli	Senior Scientist & Head	M	Agronomy	M.Sc. (Agri.) Ph.D	79800 - 211500	87300	20.07.2018	**Permanent**	2A
2	Scientist/SMS	Dr. Pralhad	Scientist	M	Animal Science	M.V.Sc.Ph.D	68900 - 205500	79900	13.09.2017	**Permanent**	Cat-1
3	Scientist/SMS	Dr. S.N. Bhat	Scientist	M	Soil Science	M. Sc. (Agril) Ph.D (Soil Science)	68900 - 205500	79900	13.07.2020	**Permanent**	GM
4	Scientist/SMS	Smt. Hemalatha, K.J.	Scientist	F	Horticulture	M.Sc. (Horti.)	68900 - 205500	68800	20.06.2017	**Permanent**	Cat-1
5	Scientist/SMS	Dr. Shreevani G.N.	Scientist	F	Entomology	M.Sc. (Ent.)Ph.D.	57700-182400	69860	02.08.2018	**Permanent**	ST
6	Scientist/SMS	Mrs. Veena T	Scientist	F	Home Science	M. Sc.(Food & Processing Engineering)	57700-182400	69860	05.01.2021	**Permanent**	ST
7	Scientist/SMS	**Vacant**	Scientist	-	Plant Pathology	**Vacant**	-	-	-	**Vacant**	-
8	Programme Assistant (Computer)	Mr. DevarajNayak	Programme Assistant	M	Computer	MCA	9300-34800	53600	25-03-2017	**Permanent**	ST
9	Programme Assistant (Lab Tech.)	**Vacant**	Programme Assistant	-	Lab Tech.	**Vacant**	-	-	-	**Vacant**	-
10	Programme Assistant/ Farm Manager	**Vacant**	Farm Manager	-	Farm Manager	**Vacant**	9300-34800	55200	-	**Vacant**	-
11	Assistant	Mr. Shivayogi	Assistant	M	Assistant	MA	30350-52850	36000	27-03-2017	**Permanent**	SC
12	Jr. Stenographer	Kum. Sumangalamma.M	Typist/Computer operator	F	Typist/Computer operator	BA	30350-52850	31850	04.12.2017	**Permanent**	2A
13	Driver - 1	Sri. ChanappaAskihal	Driver (H.V)	M	Driver (H.V)	7^{th}	30350-52850	35150	01-04-2017	**Permanent**	2A
14	Driver - 2	Sri. EshappaAskihal	Driver	M	Driver	7^{th}	30350-52850	50150	06-02-1999	**Permanent**	2A
15	SS-1	Smt. SrideviTalawar	Attender	F	Attender	BA	21400-42000	22950	20-07-2012	**Permanent**	ST
16	SS-2	Sri. Anjaneya	Cook	M	Cook	SSLC	21400-42000	22400	09-01-2012	**Permanent**	Cat-1

1.6. Total land with KVK (in ha): 20 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.12
2.	Under Demonstration Units	6.40
3.	Under Crops	13.3
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							

B) Vehicles

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

C) Equipment & AV aids

Name of the equipment	Year of purchase	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 SESP 8-02	2015	Supplied of INSIMP	Good

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

1.8. Details of SAC meeting conducted during 2020

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
14.09.2020	72			
Dr. K.N.Kattimani, Hon'ble Vice Chancellor, UAS, Raichur				
14.09.2020	72	Every KVK should maintain the contact of at least 500 farmers. (**Action: All scientists)**	KVK Raichur has a contact of more than 500 farmers and need based information are delivered in Raichur district	
14.09.2020	72	All KVKs should formulate Farmers Producers Organisations (FPO) (**Action: All scientists)**	The process of formation of FPO is under progress (Jakkaladinni village on Chilli)	
14.09.2020	72	Conduct trainings in remote villages and help farmers to adopt the improved technologies. **(Action: All scientists)**	Some of the training on groundnut, IFS, redgram have been conducted in DFI village of Lingasugur	
14.09.2020	72	Guide farmers to grow such crops which can bring them daily and monthly income (**Action: All scientists)**	Farmers are trained to growth sessional vegetables and other horticulture crops	
14.09.2020	72	Every KVK should have horticulture mother blocks and demonstrate apple varieties which are suitable for Kalyan Karntaka region [**Action: scientist (Horticulture)]**	• Horticulture mother block have been established in 1ha at KVK, farm field (Mango, Guava, Fig, Sapota, Tamarind & Jamun) along with drip irrigation • OFT on assessment of apple varieties suitable for Kalyana Karnataka region will be taken up	
14.09.2020	72	Conduct more number of farmer to farmer training programmes **(Action: All scientists)**	This suggestion will be taken into account will conducting need based training programmes	
14.09.2020	72	Popularize the various central government schemes such as Pradhana Manthri Kisan Samman Nidhi, Pradhana Manthri Fasal Bheema and other programmes **(Action: All scientists).**	The farmers are aware of Pradhana Manthri Fasal Bheema and other programmes and for Fhasal bheema yojana farmers are slowly turning up	
Dr. B.K. Desai, In charge of Director of Extension, UAS, Raichur				
14.09.2020	72	Suggested KVK to guide onion growers to grow onions based on market demand and weather condition to avoid losses [**Action: scientist (Horticulture)].**	Conducted training programmes, onion field visits and FLDs for popularization of onion bhima dark red variety	
14.09.2020	72	Suggested to give need based training programme to extension functionaries and farmers **(Action: All scientists).**	Need based training is being organized and more emphasis will be given in coming days	
14.09.2020	72	Create awareness on Seeds, Planting materials, Bio-fertilizers, Bio-agents developed by university **(Action: All scientists).**	In majority of the training programmes information on use of bio-agents are given and it will be continued	
Dr. Channabasavanna, Associate Director of Research, MARS, Raichur, suggested these follow as:				
14.09.2020	72	Motivate farmers for farm mechanization and IFS [**Action: scientist**	It will be included	

		(Agronomy)].		
14.09.2020	72	Trainings should be organized on terrace farming [**Action: scientist (Horticulture)].**	Training programme organized on terrace farming in collaboration with Dept. of Horticulture	
14.09.2020	72	Give information regarding post emergent herbicides in different crops [**Action: scientist (Agronomy)].**	Farmers of aware of pre-emergent and awareness will be made on post-emergent also	
14.09.2020	72	Guide farmers to grow green manuring trees like Glyricidia and others on the bunds [**Action: scientist (Agronomy)].**	Awareness on use of green manuring has been made and will be continued	
14.09.2020	72	Encourage farmers to grow flower crops and medicinal crops in this region [**Action: scientist (Horticulture)].**	This will be under taken up through FLDs and training programmes in collaboration with department of horticulture.	
14.09.2020	72	Give more trainings through innovative farmers regarding adoption of scientific technologies **(Action: All scientists).**	In coming days this will be implemented	
14.09.2020	72	Create awareness among farmer for applying various crop awards given by different agencies **(Action: All scientists).**	Necessary arrangement for applying of crop award will be made	
Dr. Amaregouda, Head of Dept. Crop physiology. Agriculture College of Raichur				
14.09.2020	72	Demonstrate paraquat during harvesting stage of greengram in the farmer's field [**Action: scientist (Agronomy)].**	Use of paraquat as post emergent will be taken up	
Dr. Mahadevaswamy, Head of Dept., Microbiology, College of Agriculture Engineering, Raichur				
14.09.2020	72	Give more information to farmers regarding use of bio-fertilizers and bio agents in Horticulture crops. [**Action: scientist (Entomology & Soil Science)].**	Emphasis on bio-agent is being made in every training programmes conducted by KVK	
Dr. N. A. Patil, Director of Extension, KVAFSU, Bidar				
14.09.2020	72	Quantify the bio agents sold by UAS, Raichur and guide the millet growing farmers regarding clean harvesting procedures. [**Action: scientist (Agronomy & Home science)].**	Quantification on sale of bio agents by the university has already been made by concerned departments and need for cleanliness in harvested millets grains will be informed to the farmers.	
Dr. Udayakumar Nidoni, Head of Dept. Processing and Food Engineering, CAE, Raichur				
14.09.2020	72	Suggested to guide farmers regarding cleaning, harvesting and separating the millets from wastes and other materials for which it fetches higher price. [**Action: scientist (Agronomy & Home science)].**	Need for cleanliness in harvested millets grains will be informed to the farmers.	
14.09.2020	72	Guide farmers to become entrepreneur through processing & Value Addition (Information of Fig jam, dehydrated fig product dehydration of tomato & onion) by conducting trainings [**Action: scientist (Horticulture & Home science)].**	EDP training programmes for the selected farmers have been made by KVKs pertaining to processing, value addition etc. in collaboration with department horticulture, food processing department and SHGs groups	
14.09.2020	72	Give information to farmers regarding subsidy for farm mechanization **(Action: All scientists).**	Information on subsidy for machination and different schemes of the state government are being made by	

			KSDA	
14.09.2020	72	As very big millet processing and value addition units will be established in Bellary, Raichur and Kalaburagi areas suggested to popularize growing millets among farmers of this region [**Action: scientist (Homes science)].**	This information will be passed on to the farmers to encourage millet grower	
14.09.2020	72	Suggested to make small video of different technologies **(Action: All scientists).**	Some videos have been made by our KVK reaming will be under taken	
Sri. Amaresha Kote, Progressive farmer, Jakkaladinni,				
14.09.2020	72	Give weather forecast data through messages on daily basis [**Action: scientist (Agronomy)]**	Forecast on weather and farmer advisories are being given twice in week as given by IMD and Agromet, MARS, Raichur	
Sri. Krupa Sagar, Progressive farmer, Manvi,				
14.09.2020	72	KVK technologies should reach to urban farmers also since they are interested in Horticulture and Dairy farming [**Action: scientist (Horticulture & Animal Science)].**	Information on horticulture and dairy farming is being given to urban dwellers through krishi mela, other exhibitions and mass media	This year will be conducting Skill training programme
Sri. Veeresh, Progressive farmer, Lingasuguru				
14.09.2020	72	Suggested to give scientific solution to bacterial blight in pomegranate [**Action: scientist (Horticulture)].**	Conducted field visits and suggestion were given through whatsapp messages leaflets on pomegranate.	
14.09.2020	72	Give more number of trainings to rural youths regarding scientific sheep and goat farming [**Action: scientist (Animal Science)].**	10 Training programmes on Improved sheep and goat rearing practices were organized on at 5 DFI Villages	
Dr. B.T. Rayadu, Principal Scientist and Nodal officer, ATARI, Benglauru				
14.09.2020	72	KVK and line departments together should organize trainings to give more technological information to the farmers in DFI villages **(Action: All scientists).**	15 Training programmes on Improved sheep and goat rearing practices and on IFS were organized on at 5 DFI Villages	
Dr. M.J. Chandregouda, Principal Scientist, ICAR-ATARI, Bengaluru				
14.09.2020	72	Use more social media (whatsapp group, face book and other online media) to give information to the farmers during Covid-19 period **[Action: All scientists and Technical Officer (Computer)]**	During information to the farmers pertaining to production technologies and marketing were made through agriwar room and mass media	
14.09.2020	72	Develop DFI villages as model villages for doubling farmers income through increasing crop productivity, crop rotation, reducing the cost of cultivation, value addition and marketing information **(Action: All scientists).**	Training programme demonstrations and follow-up visits are being conducted in 5 DFI villages of Raichur district	
14.09.2020	72	Update the information in KVK portal every month **(Action: Technical Officer (Computer)].**	Updating of KVK portals regularly is in progress	
14.09.2020	72	Write more of popular articles to give solutions to the current problems **(Action: All scientists).**	Writing need based popular articles on agriculture and allied subjects from our KVK scientists will be taken up	

PART II - DETAILS OF DISTRICT

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

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

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

Sl. 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.

Sl. 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

Sl. 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 crops cultivated in the district

Sl. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	237306	1568689.5	155200
2	Jowar	102639	200832.6	41748
3	Maize	2005	7167.5	35250
4	Bajra	53142	63471.5	11450
5	Wheat	0	838	2000
6	Minor Millets	1650	881.135	4500
7	Tur	98373	118622.5	10850
8	Bengalgram	113037	138990	9825
9	Horsegram	490	301	1400
10	Blackgram	5	1.875	375
11	Greengram	740	365	3750
12	Cowpea	161	115.25	3150
13	Total Foodgrains	609548	0	0
14	Groundnut	54319	46430.625	15850
15	Sesamum	2275	1404.75	1950
16	Sunflower	12776	8985.875	14000
17	Castor	512	384	750
18	Mustard	350	20	1000
19	Safflower	205	117	1500
20	Cotton	155379	307934.25	13500
21	Sugarcane (Planted)	255	1067	10500
	Grand Total	**838124**	**2466619.4**	**338548**

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

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

Crop	Area (Ha)	Prodn. (M.Tons)	Yield (M.Tons/Ha.)	Value (Lakhs)
Mango	1237	9896	8.00	5937.6
Banana	61.16	995.28	16.27	298.584
Lemon	243	6318	26.00	2716.74
Sweet Orange	220	5060	23.00	1821.6
Gava	208	4576	22.00	70.72
Sapota	48	528	11.00	168.96
Pomegranate	1574	18888	12.00	8499.6
Papaya	390	31200	80.00	6240
Custeard Apple	50	400	8.00	80
Fig	31.8	95.2	2.99	18.4
Watermelon	184	8280	45.00	828
Muskmelon	117	1755	15.00	175.5
Tomato	1100	25035	22.76	3943.25
Onion	4568	92738	20.30	21412.1
Brinjal	288	7776	27.00	1555.2
Beans	46	552	12.00	138
Green Chilli	952	11424	12.00	2856
Dray Chilli	6370	12740	2.00	11466
Total Khol Varities	90	1907	21.19	505.78
Lady's finger / Okra	195	2925	15.00	731.25
Radish	45	585	13.00	87.75
Carrot	51	663	13.00	99.45
Capsicum	33	396	12.00	102.96
Cluster Beans	64	448	7.00	89.6
Drumstick	73	43.07	0.59	53.838
Menti	84	1260	15.00	315
Palak	87	870	10.00	174
Curry Leaves	61	488	8.00	97.6
Other Leaf vegetable	126	1134	9.00	226.8
Bottle Gourd	21	420	20.00	63
Bitter Gourd	57	570	10.00	114
Ridge Gourd	158	1264	8.00	252.8
Pumkin	31	930	30.00	93
Cucumber	299	4485	15.00	448.5
Turmeric	25	375	15.00	318.75
Marigold	62	496	8.00	148.8
Jasmine	52	364	7.00	600.6
Coconut	32	3.328	0.10	33.28

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January	0.0	31.6	19.2	0.0
February	0.0	33.2	20.1	0.0
March	0.0	36.4	23.8	0.0
April	19.0	39.3	25.8	2.0
May	130.4	40.3	26.8	6.0
June	128.0	34.8	24.7	10.0
July	296.6	32.0	23.4	13.0
August	164.4	30.3	23.2	12.0
September	317.6	30.7	23.3	11.0
October	179.6	31.0	22.5	6.0
November	12.6	30.3	19.2	1.0
December	0.0	29.9	16.4	0.0
	1248.2	**33.3**	**22.4**	**61.0**

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

2.6.1. 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

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

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

2.7 District profile maintained in the KVK has been Updated for 2019: Yes / No: 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.	Sirawar	Athanur	Jakkaladinni	Two	Bengalgram	• Use of local varieties • Indiscriminate use of pesticides for the management of Helicoverpa • Wilt/Rootrot/wilt disease • Lack of awareness of soil & water conservation practices	Introduction of New variety, Integrated pest management and Integrated Nutrient management
2.	Lingasuguru	Lingasuguru	Adavibhavi	Two	Redgram & Fruit crops	• Low yield due to pests • Indiscriminate use of pesticides for the management of Helicoverpa • Wilt and Phytopthora blight • Lack of awareness of soil & water conservation practices • Bacterial blight, wilt, anthracnose and pests in pomogranate • Ring sport viruses sucking pests in Papaya • Nemotodes in Guava etc..	Intercropping and Integrated Pest management
3.	Raichur	Chandrabanda	Mandalagera	Two	Cotton	• High Seed rate • Incidence of PBW • Indiscriminate use of pesticides for the management of PBW • Incidence of sucking pests • Low yield due to improper weed management & imbalanced nutrition • Reddening in Cotton	Introduction of New variety, Integrated pest management and Integrated Nutrient management
4.	Lingasuguru	Lingasuguru	Adavibhavi	Two	Groundnut	• Use of low yielding local varieties • Incidence of peanut bud necrosis disease through management of thrips • Incidence of Spodoptera and leafminer • Incidence of pod rot and leaf spots	Integrated Crop 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
5.	Sirawar	Athanur	Jakkaladinni,	Two	Sorghum	• Newly pest introduction on fall army warm	Integrated Pest Management
6.	Sindhanur	Sindhanur	Raithanagar camp	Two	Paddy	• Low yield due to BPH, Blast and Sheath blight • Indiscriminate use of fertilizer and pesticides for the Management of BPH (8-10 molecules in combination with pyrethroids) • Improper water management • Lack of awareness of short duration varieties	Introduction of New variety and Water management
7.	Raichur	Chandraband	Mandalagera	Two	Chilli& Tomato	• Low yield due to Murda complex and Powdery mildew disease, Anthracnose (fruit rot) & Wilt • Indiscriminate use of pesticides for the management • Excessive application of inorganic basal nutrients & foliar spray • Lack of awareness about value addition • Low price per unit commodity • Excess production during season	Integrated Crop Management and Integrated Pest Management
8.	Raichur	Chandraband	Mandalagera	Two	Onion	• Low yield and poor shelf life • Incidence of purple blotch • Incidence of thrips and Spodoptera	Introduction of New variety
9.	Raichur	Chandraband	Mandalagera	Two	Cucumber	• Single harvest varieties • Low yield	Integrated Pest Management
10.	Devadurga	Devadurga	Adakalgudda	Two	Watermelon	• Because of rainfed condition, no commercial horticultural crops are grown in the region • Lack of awareness of soil & water conservation practices	Integrated Nutrient and pest 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
11.	Raichur	Raichur	Devasugur	Two	Fig	• Rust incidence • Flower drop • Poor crop management • Lack of awareness about value addition and processing	Integrated Nutrient and pest Management
12.	Devadurga	Arkera	Adakalgudda	Two	Fodder	• Scarcity of green fodder due to non availability of grazing land • Green fodder depending on seasonal availability • Vitamin A deficiency due to inadequate green fodder feeding • Low fertility • Drudgery in cutting fodder from field • Wastage of green fodder	Introduction of new forage fodder crops
13.	Devadurga	Arkera	Adakalgudda	Two	Sheep & Goat	• Limited grazing land and hence Free range system of rearing goats and sheep is shrinking • Low productivity in Sheep and goats under grazing system of rearing • Heavy worm load in sheep and Goat • Low productivity in desi / local goats • Inbreeding and poor genetic germ plasm among native goats • Mineral deficiency in Goats and sheep leads to infertility (upto 30%) and poor weight gain • Imbalance in rumen microflora leading to decreased growth rate	Nutritional management and Disease Management

2.9.1 Details of Benchmark Information collected from DFI villages

Sl.No.	Taluk	Name of the block	Name of the village	Name of the Head of Household	Annual Gross Income (Rs.)	Annual Expenditure (Rs.)	Annual Net Income (Rs.)
01	Raichur	Chandrabanda	Mandalagera	50 Farmers Average	373567	227542	146025
02	Sirawar	Sirawar	Jakkaladinni	50 Farmers Average	224281	108311	115970
03	Lingasugur	Lingasugur	Adavibhavi	50 Farmers Average	462800	289800	173000
04	Devadurga	Arakera	Adakalagudda	50 Farmers Average	152666	81916	70750
05	Sindhanuru	Sindhanuru	Raithanagar camp	50 Farmers Average	655920	497424	158496

2.10 Priority thrust areas

Sl. No	Thrust area
1.	Integrated Nutrient Management (INM)
2.	Integrated Crop Management (ICM)
3.	Integrated Pest Management (IPM)
4.	Alternate cropping
5.	Popularization of High Yielding Variety (HYV)
6.	Pest and disease management
7.	Nutritional management in Dairy, Sheep and Goat
8.	Disease management in Dairy, Sheep and Goat
9.	Evaluation of breeds
10.	Fuel saving and Drudgery reducing devices
11.	Value addition to minor millets
12.	Organic pest management
13.	Improved nutrient management technique

PART III - TECHNICAL ACHIEVEMENTS (2020)

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
07	07	22	22	17+1EDP	17+1EDP	180+2SHgs	180+2SHgs

Training				Extension Programmes			
3				4			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
120	68+34Online training classes	4200	2780+928 Online Participant	1200	750	15000	7800

Seed Production (Q)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement

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.	Variety Introduction of New varieties	Chickpea	• Low yielding ability • Moisture stress • Wilt & Dry root rot incidence	Assessment of Chickpea varieties for stress	-	2	1	-	3	1.8	-	-	-	-
2.	ICM	Pigeonpea	• Failure of PP + PM (1:2) intercropping system • Low yield (3-4q/ac.) and returns • Moisture stress	Assessment of millets as intercrops in Pigeonpea	-	2	1	-	3	0.63	-	-	-	-
3.	Variety Introduction of New varieties	Mustard	• Water availability is less in tail end region • Lack of knowledge on suitable crops in paddy fallows	Assessment of Mustard varieties as alternate crop in paddy	-	2	1	1		0.30				
4.	Variety Introduction of New varieties	Blackgram	• Water availability is less in tail end region • Lack of knowledge on suitable crops in paddy fallows	Assessment of blackgram varieties as alternate crop in paddy fallows	-	1	1	-		1.05				
5.	Integrated Nutrient Management	Mosambi	• Inferior quality of fruits • Low yield	Assessment of micronutrient management on yield of Mosambi	-	2	1	1	2	-	-	-	-	-
6.	Variety Introduction of New varieties	Fodder	• Scarcity of fodder to livestock and Low milk yield	Assessment of new forage super Naiper for its productivity and forage quality	-	2	1	1	2	-	10000 Stems	-	-	-
7.		Red Chilli		Assessment of drying of Red	-	2	1	2	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
				Chillies in Solar drier and sunlight										
8.		Paddy	• Excess water usage leads decline in yield • Saline, alkaline & water logging problems • Increase in pest & disease population	-	Water Management (AWD) in Paddy	2	1	1	2	-	-	-	-	-
9.		Paddy	• High incidence of BPH • More pesticide usage, less number of natural enemies • Low economic returns	-	Eco friendly management of pests in Paddy ecosystem	2	-	2	-	-	-	-	1	0.2
10.		Groundnut	• Low yield of TMV-2 • weed menace • More susceptible to Pest & disease, • Nutrient deficiency • Medium size with shriveled seeds and less demand for Marketing & Lack of awareness regarding value addition	-	Integrated Crop Management in Groundnut	1	1	-	1	2.5	-	-	2	11
11.		Pigeon pea	• Indiscriminate use of chemical pesticides	-	Integrated Pest Management in Pigeonpea	1	1	-	3					
12.		Chickpea	• Indiscriminate use of chemical pesticides	-	Integrated Pest Management in Chickpea	1	1	-	-					
13.		Cotton	• Outbreak of pink	-	Management of	1	1	-	1	-	-	-	-	-

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
			bollworm in Bt. Cotton (60-80% damage)		Pink Bollworm in Bt-Cotton									
14.		Tomato	• Lack of knowledge of biofertilizers • Indiscriminate use of inorganic fertilizers • Poor management of pest and diseases	-	Integrated Crop Management in Tomato	1	1	-	-	-	-	-	2	45
15.		Onion	• Low yield due to use of local variety • Pest and disease incidence	-	Introduction of high yielding onion variety Bhima Dark Red	1	1	-	-	0.1	-	-	-	-
16.		Chilli	• Indiscriminate use of chemical pesticides • Higher incidence Thrips and mites, spodoptera damage Low yield	-	Integrated Pest Management in Chilli (Murda complex & Spodoptera)									
17.		Fig	• Lack of knowledge of biofertilizers • Indiscriminate use of inorganic fertilizers • Poor management of pest and diseases	-	Integrated Crop Management in Fig	1	1	-	-	-	-	-	1	5
18.		Mango	• Lack of knowledge of pruning techniques • Poor water and nutrient management • Poor management of pest and diseases	-	Integrated Crop Management in Mango	1	1	-	-	-	-	-	1	25
19.		Small	• Non availability of	-	Establishing	1	1	-	1	0.51	-	-	-	-

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
		ruminants	diversified fodder crops to meet requirements of balanced forage feeding.		fodder banks in sheep and goat rearing									
20.		Dairy	• Imbalance in rumen microflora leading to decreased growth rate	-	Achieving optimum post weaning growth in calves with probiotics	1	1	-	1	-	-	-	1	40
21.		Sheep and Goat	• Poor body weight gain •	-	Demonstration of species Specific Mineral Mixture for Sheep and Goat	1	1	-	1	-	-	-	1	120
22.		Dairy		-	Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows	1	1	-	1	-	-	-		
23.		Sheep and Goat		-	Demonstration of multicut Fodder Sorghum variety-Cofs-31	1	1	-	1	0.4	-	-		
24.		Nutrigarden		-	Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)	1	1	-	1	-	-	-		
25.		Value Addition		-	EDP on Value addition to millets (Instant Products)	1	1	-	1	-	-	-		

3.B2. Details of technology used during reporting period

Sl. No	Title of Technology	Source of technology	Crop/ Enterprise	No.of programmes conducted			
				OFT	FLD	Training	Extension activities (No.)
1	2	3	4	5	6	7	8
1.	Assessment of Chickpea varieties for stress	ANGRAU, RARS, Nandyal, AP	Chickpea	3	-	2	3
2.	Assessment of millets as intercrops in Pigeonpea	UAS R/D	Pigeonpea	3	-	2	3
3.	Assessment of Mustard varieties as alternate crop in paddy	DRMR, Bharathpur	Mustard	5	-	2	
4.	Assessment of Blackgram varieties as alternate crop in paddy fallows	UASD	Blackgram	5	-	2	
5.	Assessment of micronutrient management on yield of Mosambi	UHS, Bagalkot	Mosambi	5	-	2	2
6.	Assessment of new forage super Naiper for its productivity and forage quality		Fodder	3	-	2	2
7.	Assessment of drying of Red Chillies in Solar drier and sunlight	UASD	Red Chilli	3	-	3	2
8.	Water Management (AWD) in Paddy	UAS, Raichur	Paddy	-	10	3	2
9.	Eco friendly management of pests in Paddy ecosystem	UAS, Raichur	Paddy	-	10	3	-
10.	Integrated Crop Management in Groundnut	UAS, Raichur	Groundnut	-	5	2	1
11.	Integrated Pest Management in Pigeonpea	UAS, Raichur	Pigeonpea	-	10	2	3
12.	Integrated Pest Management in Chickpea	UAS, Raichur	Chickpea	-	10	2	-
13.	Management of Pink Bollworm in Bt-Cotton	UAS, Raichur	Cotton	-	10	2	1
14.	Integrated Crop Management in Tomato	IIHR, Bangaluru	Tomato	-	5	2	-
15.	Introduction of high yielding onion variety Bhima Dark Red	DOGR Pune	Onion	-	5	2	-
16.	Integrated Pest Management in Chilli (Murda complex & Spodoptera)	UAS, Raichur	Chilli	-	5	2	1
17.	Integrated Crop Management in Fig	UHS, Bagalkot	Fig	-	5	2	-
18.	Integrated Crop Management in Mango	IIHR, Bangaluru	Mango	-	5	2	-
19.	Establishing fodder banks in sheep and goat rearing	TNAU, Coimabator	Small ruminants	-	5	2	1
20.	Achieving optimum post weaning growth in calves with probiotics	TANUVAS Chennai	Dairy	-	20	2	1
21.	Demonstration of species Specific Mineral Mixture for Sheep and Goat	ICAR-NIANP	Sheep and Goat	-	20	2	1
22.	Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows		Dairy	-	20	2	1
23.	Demonstration of multicut Fodder Sorghum variety-Cofs-31		Sheep and Goat	-	10	2	1
24.	Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)	UAS, Bangaluru	Nutrigarden	-	1	2	1
25.	EDP on Value addition to millets (Instant Products)	UAS, Bangaluru	Value Addition	-	1	2	1

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Extension activities (No.)			
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	-	-	-	-	-	26	5	21	2	32	6	26	3
2	-	1	-	-	-	-	-	25	5	20	2	40	8	33	3
2	1	2	-	-	-	-	-	24	4	19	2	0	0	0	0
2	1	2	-	-	-	-	-	30	6	24	2	0	0	0	0
3	-	2	-	-	-	-	-	22	4	18	2	20	4	16	2
3	-	-	-	-	-	-	-	43	8	35	4	18	3	15	2
2	-	1	-	-	-	-	-	29	5	23	2	23	4	18	2
-	-	-	-	5	1	4	-	58	11	47	5	18	3	15	2
-	-	-	-	6	-	4	-	29	5	23	2	0	0	0	0
-	-	-	-	3	-	2	-	33	6	27	3	12	2	10	1
-	-	-	-	4	1	5	-	36	7	29	3	28	5	23	2
-	-	-	-	6	-	4	-	32	6	26	3	0	0	0	0
-	-	-	-	5	-	4	1	31	6	25	3	12	2	10	1
-	-	-	-	3	-	2	-	33	6	27	3	0	0	0	0
-	-	-	-	3	-	2	-	35	6	28	3	0	0	0	0
-	-	-	-	2	1	2	-	37	7	30	3	9	2	7	1
-	-	-	-	4	-	1	-	36	7	29	3	0	0	0	0
-	-	-	-	2	1	1	1	33	6	27	3	0	0	0	0
-	-	-	-	3	-	2	-	30	6	25	3	11	2	9	1
-	-	-	-	9	3	8	-	35	7	28	3	13	3	11	1
-	-	-	-	9	3	8	-	32	6	26	3	8	2	7	1
-	-	-	-	9	3	8	-	36	7	30	3	10	2	8	1
-	-	-	-	4	1	5	-	32	6	26	3	12	2	9	1
-	-	-	-	1	-	-	-	31	6	25	3	8	1	6	1
-	-	-	-	1	-	-	-	43	8	35	4	11	2	9	1

PART IV - On Farm Trial (2020)

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
Varietal Evaluation	1	1	3	-	-	-	-	-	-	5
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	-	-	-	-	1	-	-	-	-	1
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
others	-	-	-	-	-	-	-	-	-	-
Total	1	1	3	-	1	1	-	-	-	7

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

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

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

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

4.B. Achievements on technologies Assessed and Refined : Nil

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	Mosambi	Assessment of micronutrient management on yield of Mosambi	5	5/1	3
Varietal Evaluation	Chickpea	Assessment of Chickpea varieties for stress	5	5/1	3
	Mustard	Assessment of Mustard varieties as alternate crop in paddy	5	5/1	3
	Blackgram	Assessment of Blackgram varieties as alternate crop in paddy fallows	5	5/1	3
	Fodder	Assessment of new forage super Naiper for its productivity and forage quality	3	3/2	1.5
Integrated Pest Management					
Integrated Crop Management	Pigeonpea	Assessment of millets as intercrops in Pigeonpea	5	5/1	3
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries	Chilli	Assessment of drying of Red Chillies in Solar drier and sunlight	3	3/1	1.5
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

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	-	-	-	-	-
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				
Value addition				
Production and management				
Feed and fodder	Fodder	Assessment of new forage super Naiper for its productivity and forage quality	2	2
Small scale income generating enterprises				
Total				

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

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

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

Sl.	**Thematic areas**	**Name of the enterprise**	**Name of technology(s)**	**No. of 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	Chilli	Assessment of drying of Red Chillies in Solar drier and sunlight	3	3/1
12	Resource conservation technology	-	-	-	-
13	Value Addition	-	-	-	-
14	Others	-	- -	- -	-

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	-	-	-	-
6	Others(Home science)	-	-	-	-

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	Gross cost	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
Chickpea	Rainfed	• Low yielding ability • Moisture stress • Wilt & Dry root rot incidence	Assessment of Chickpea varieties for stress	05	**TO1 :** JG-11	Farmers/UAS, R/D	15.56		25027	71576	46549	2.86
					TO2: NBeG-49	ANGRAU, RARS, Nandyal, AP	17.34		25574	79779	54206	3.12
					TO3: GBM-2	UAS, Raichur	14.81		25030	68126	43096	2.72
					TO4: NBeG-47	ANGRAU, RARS, Nandyal, AP	18.59		25551	85514	59963	3.35
Pigeonpea	Rainfed	• Failure of PP + PM (1:2) intercropping system • Low yield (3-4q/ac.) and returns • Moisture stress	Assessment of millets as intercrops in Pigeonpea	05	**TO1 :**Redgram sole	Farmers/UAS, R/D	14.08	Pht 215.83	29380	90091	60710	3.10
					TO2: PP + PM (1:1)	UAS R/D	16.50	Pht 207.67	31654	105617	73963	3.37
					TO3: PP + PM (1:2)	UAS R/D	13.35	Pht 172.50	31664	85424	53760	2.73
					TO4: PP + FM (1:2)	UAS R/D	19.23	Pht 212.00	30697	107232	76535	3.52
Mustard	Irrigated	• Water availability is less in tail end region • Lack of knowledge on suitable crops in paddy fallows	Assessment of Mustard varieties as alternate crop in paddy	05	**TO1:** Local	Pvt HY						
					TO2: PM-25	IARI	11.04	Pht 186.86	10976	66240	55264	6.03
					TO3: PM-30	IARI	9.28	Pht 163.97	10976	55700	44724	5.07
					TO4: NRCHB-101	DRMR, Bharathpur	10.57	Pht 180.49	10976	63400	52424	5.78
Blackgram	Irrigated	• Water availability is less in tail end region • Lack of knowledge on suitable crops in paddy • fallows	Assessment of Blackgram varieties as alternate crop in paddy fallows	05	**TO1:**TAU-1	Farmers Practices	Harvesting stage					
					TO2: PU-31	GBPUAT						
					TO3: TRCRTRU-22	UASR						
					TO4:DU-1	UASD						
Mosambi	Irrigated	• Inferior quality of fruits	Assessment of micronutrient management on yield	05	**TO1:** Farmers practice soil application of NPK	-	On going-Fruiting stage					

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Gross cost	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
		• Low yield	of Mosambi		**TO2:** RDF+ZnSO4+ MgSO4+MnSO4+Ca	UHS, Bagalkot						
					TO3: Citrus special	IIHR Bengaluru						
Fodder	Irrigated	• Scarcity of fodder to livestock and • Low milk yield	Assessment of new forage super Naiper for its productivity and forage quality	03	**TO1:** Farmers Practice (NB-21)	UAS, Dharwad	38 tones/ I cutting	No. of T/P-7	22000	38000	23000	1.72
					TO2: Hybrid Napier Co-3	TNAU, Coimabator	45 tones/ I cutting	No. of T/P-9	23000	45000	27000	1.95
					TO3: Super Napier	IGFRI Jansi	60 tones/ I cutting	No. of T/P-12	25000	60000	35000	2.40
Chilli	Irrigated		Assessment of drying of Red Chillies in Solar drier and sunlight	03	**FP:**Drying of Red Chillies in direct sunlight on mud roof	-	On going					
					TO1: Drying of Red Chillies in direct sunlight on Tarpaulins	UHS, Bagalkot						
					TO2: AP-1 Drying of Red Chillies in Solar drier	Raheja Solar Driers, Indore						

****Observations other than yield**

Name of The Parameter	TO1	TO2	TO3	TO4
Assessment of Chickpea varieties for stress				
▪ Plant height	59.84	61.90	73.54	71.33
▪ No of pods/plant	60.67	66.00	59.67	63.00
▪ 100 seed weight	25.41	24.80	23.64	25.16
Assessment of millets as intercrops in Pigeonpea				
▪ Plant height	215.83	207.67	172.50	212.0
▪ 100 seed weight	34.41	32.44	29.19	33.09
▪ Pigeonpea yield	14.08	13.26	10.56	13.24
▪ Inter crop yield	-	12.22	10.51	12.16
Assessment of Mustard varieties as alternate crop in paddy				
• Pl. height	-	186.86	163.97	180.49
• Test wt	-	33.11	27.15	30.36

• Pest & Disease incidence				
Assessment of Blackgram varieties as alternate crop in paddy fallows				
• Soil analysis • Pl. height • Test wt • Grain Yield • Pest & Disease incidence	-	-	-	-
Assessment of micronutrient management on yield of Mosambi				
• Yield	-	-	-	-
Assessment of new forage super Naiper for its productivity and forage quality				
Milk yield (Lit/ day) No. of tillers /plant Fodder yield (Tones/ Ha)	7 7 38 tones/ I cutting	7.25 9 45 tones/ I cutting	8 12 60 tones/ I cutting	-
Assessment of drying of Red Chillies in Solar drier and sunlight				

4. C2. Feedback on technologies assessed

Name of technology assessed	**Useful characters as well as constraints of technology**	**Socio-economic as well as administrative constraints for its adoption**
Assessment of Chickpea varieties for stress	NBEG-47 & 49 gives higher yield	Chickpea var. NBeG-47 and 49 for its adoptability through multilocation trial
Assessment of millets as intercrops in Pigeonpea	As bonus crop, additional income with 1:1 row and 1:2 Bajra and Foxtail millet, respectively	Revalidation of row proportion in pigeonpea + Pearl millet (1:2) I/C System
Assessment of Mustard varieties as alternate crop in paddy	Getting 3-4 q mustard yield with residual moisture instead of fallow	Screening of new varieties for its adoptability in paddy fallows
Assessment of Blackgram varieties as alternate crop in paddy fallows	-	-
Assessment of micronutrient management on yield of Mosambi	-	-
Assessment of new forage super Naiper for its productivity and forage quality	-	-
Assessment of drying of Red Chillies in Solar drier and sunlight	-	-

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

Sl. No.	Particulars		
1.	Title of Technology Assessed	:	Assessment of Chickpea varieties for stress
2.	Performance of the Technology on specific indicators	:	NBeG-47
3.	Specific Feedback from farmers	:	Chickpea var. NBeG-47 and 49 for its adoptability through multilocation trial
4.	Specific Feedback from Extension personnel and other stakeholders	:	NBEG-47 & 49 gives higher yield
5.	Feedback to Research System based on results and feedback received	:	
6.	Feedback on usefulness and constraints of technology	:	

1.	Title of Technology Assessed	:	Assessment of millets as intercrops in Pigeonpea
2.	Performance of the Technology on specific indicators	:	PP + FM (1:2)
3.	Specific Feedback from farmers	:	Revalidation of row proportion in pigeonpea + Pearl millet (1:2) I/C System
4.	Specific Feedback from Extension personnel and other stakeholders	:	As bonus crop, additional income with 1:1 row and 1:2 Bajra and Foxtail millet, respectively
5.	Feedback to Research System based on results and feedback received	:	
6.	Feedback on usefulness and constraints of technology	:	

1.	Title of Technology Assessed	:	Assessment of Mustard varieties as alternate crop in paddy
2.	Performance of the Technology on specific indicators	:	NRCHB-101
3.	Specific Feedback from farmers	:	Screening of new varieties for its adoptability in paddy fallows
4.	Specific Feedback from Extension personnel and other stakeholders	:	Getting 3-4 q mustard yield with residual moisture instead of fallow
5.	Feedback to Research System based on results and feedback received	:	
6.	Feedback on usefulness and constraints of technology	:	

1.	Title of Technology Assessed	:	Assessment of Blackgram varieties as alternate crop in paddy fallows
2.	Performance of the Technology on specific indicators	:	DU-1
3.	Specific Feedback from farmers	:	
4.	Specific Feedback from Extension personnel and other stakeholders	:	

5.	Feedback to Research System based on results and feedback received	:	
6.	Feedback on usefulness and constraints of technology	:	

1.	Title of Technology Assessed	:	Assessment of micronutrient management on yield of Mosambi
2.	Performance of the Technology on specific indicators	:	Citrus special
3.	Specific Feedback from farmers	:	
4.	Specific Feedback from Extension personnel and other stakeholders	:	
5.	Feedback to Research System based on results and feedback received	:	
6.	Feedback on usefulness and constraints of technology	:	

1.	Title of Technology Assessed	:	Assessment of new forage super Naiper for its productivity and forage quality
2.	Performance of the Technology on specific indicators	:	Super Napier
3.	Specific Feedback from farmers	:	High Yield Soft palatable
4.	Specific Feedback from Extension personnel and other stakeholders	:	Promotion of super Napier can decrease the burden of other fodder crops requirement. Existing long gap between the fodder demand and supply can be fulfilled
5.	Feedback to Research System based on results and feedback received	:	Research is needed to elucidate the suitability of super Napier for silage making
6.	Feedback on usefulness and constraints of technology	:	

1.	Title of Technology Assessed	:	Assessment of drying of Red Chillies in Solar drier and sunlight
2.	Performance of the Technology on specific indicators	:	Drying of Red Chillies in Solar drier
3.	Specific Feedback from farmers	:	
4.	Specific Feedback from Extension personnel and other stakeholders	:	
5.	Feedback to Research System based on results and feedback received	:	
6.	Feedback on usefulness and constraints of technology	:	

4.D1. Results of Technologies Refined

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

4. D2. Feedback on technologies refined

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

4.D.2. Details of Technologies refined:

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

PART V - FRONTLINE DEMONSTRATIONS (2020)

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/ Summer	Groundnut	G-2-52	-	Integrated Crop management	Integrated Crop Management in Groundnut	2.0	2.0	2	3	4	1
	Pulses													
2		Rainfed	Kharif	Pigeon pea	TS-3R	-	Integrated Pest management	Integrated Pest Management in Pigeonpea	4.0	4.0	5	5	7	3
3		Rainfed	Rabi	Chickpea	JG-11	-	Integrated Pest management	Integrated Pest Management in Chickpea	4.0	4.0	4	6	7	3
	Cereals													
4		Irrigated	Kharif	Paddy	BPT-5204	-	Water Management	Water Management (AWD) in Paddy	4.0	4.0	2	8	5	5
5		Irrigated	Kharif	Paddy	BPT-5204	-	Integrated Pest management	Eco friendly management of pests in Paddy ecosystem	4.0	4.0	3	7	5	5
	Millets													
	Vegetables													
6		Irrigated	Summer	Tomato	Tomato: KSP 1278	-	Integrated Crop Management	Integrated Crop Management in Tomato	2.0	2.0	2	3	4	1
7		Irrigated	Kharif	Onion	Bhima Dark red	-	Varietal Introduction	Introduction of high yielding onion variety Bhima Dark Red	2.0	2.0	3	2	3	2
8		Irrigated	Kharif	Chilli	-	Local Hybrid	Integrated Pest management	Integrated Pest Management in Chilli (Murda complex & Spodoptera)	2.0	2.0	2	3	4	1
	Flowers	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ornamental	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fruit													
9		Irrigated	Kharif	Fig	Krishna brown	-	Integrated Crop Management	Integrated Crop Management in Fig	2.0	2.0	3	2	3	2
10		Irrigated	Rabi	Mango			Integrated Crop Management	Integrated Crop Management in Mango	2.0	2.0	2	3	4	1
	Spices and condiments	-	-	-	-	-	-	-	-	-	-	-	-	-

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
	Commercial													
11		Irrigated	Kharif	Cotton		Local Hybrid	Integrated Pest Management	Management of Pink Bollworm in Bt-Cotton	4.0	4.0	4	6	7	3
	Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fodder													
12		Irrigated	Rabi	Small ruminants				Establishing fodder banks in sheep and goat rearing	100 Sheep & Goat	100 Sheep & Goat	3	2	4	1
13		Irrigated	Rabi	Sheep and Goat				Demonstration of multicut Fodder Sorghum variety-Cofs-31	2.0	2.0	6	4	5	5
	Plantation	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fibre	-	-	-	-	-	-	-	-	-	-	-	-	-
	Dairy													
14			Rabi	Dairy				Achieving optimum post weaning growth in calves with probiotics	20 Claves	20 Claves	9	11	12	8
15			Rabi	Dairy				Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows	20 cows	20 cows	12	8	7	13
	Poultry	-	-	-	-	-	-	-	-	-	-	-	-	-
	Rabbitry	-	-	-	-	-	-	-	-	-	-	-	-	-
	Piggery	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sheep and goat													
16			Rabi	Sheep and Goat				Demonstration of species Specific Mineral Mixture for Sheep and Goat	100 Sheep & Goat	100 Sheep & Goat	7	13	8	12
	Duckery	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mussels	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ornamental fishes	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oyster mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-
	Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-

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
	Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-
	Implements	-	-	-	-	-	-	-	-	-	-	-	-	-
	Others (specify)													
17		Irrigated	Rabi	Nutri garden				Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)						
18			Summer	Value Addition				EDP on Value addition to millets (Instant Products)						

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												
1		Irrigated	Rabi/ Summer	Groundnut	G-2-52	-	Integrated Crop management	Integrated Crop Management in Groundnut	-	-	-	-	-
	Pulses												
2		Rainfed	Kharif	Pigeon pea	TS-3R	-	Integrated Pest management	Integrated Pest Management in Pigeonpea	-	-	-	-	-
3		Rainfed	Rabi	Chickpea	JG-11	-	Integrated Pest management	Integrated Pest Management in Chickpea	-	-	-	-	-
	Cereals												
4		Irrigated	Kharif	Paddy	BPT-5204	-	Water Management	Water Management (AWD) in Paddy	-	-	-	-	-
5		Irrigated	Kharif	Paddy	BPT-5204	-	Integrated Pest management	Eco friendly management of pests in Paddy ecosystem	-	148.0	58.6	378.0	-
	Vegetables												
6		Irrigated	Summer	Tomato	Tomato: KSP 1278	-	Integrated Crop Management	Integrated Crop Management in Tomato	-	-	-	-	-
7		Irrigated	Kharif	Onion	Bhima Dark red	-	Varietal Introduction	Introduction of high yielding onion variety Bhima Dark Red	-	-	-	-	-
8		Irrigated	Kharif	Chilli	-	Local Hybrid	Integrated Pest management	Integrated Pest Management in Chilli (Murda complex & Spodoptera)	-	-	-	-	-
	Fruit												
9		Irrigated	Kharif	Fig	Krishna brown	-	Integrated Crop Management	Integrated Crop Management in Fig	-	-	-	-	-
10		Irrigated	Rabi	Mango			Integrated Crop Management	Integrated Crop Management in Mango	-	-	-	-	-
	Commercial												
11		Irrigated	Kharif	Cotton		Local Hybrid	Integrated Pest Management	Management of Pink Bollworm in Bt-Cotton	-	-	-	-	-
	Fodder												
12		Irrigated	Rabi	Small ruminants	-	-	Nutritional Management	Establishing fodder banks in sheep and goat rearing	-	-	-	-	-
13		Irrigated	Rabi	Sheep and Goat	Cofs-31	-	Nutritional Management	Demonstration of multicut Fodder Sorghum variety-Cofs-31	-	-	-	-	-
	Dairy												
14			Rabi	Dairy	-	-	Disease Management	Achieving optimum post weaning growth in calves with probiotics	-	-	-	-	-
15			Rabi	Dairy	-	-	Disease Management	Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows	-	-	-	-	-
	Sheep and goat								-	-	-	-	-
16			Rabi	Sheep and Goat	-	-	Nutritional Management	Demonstration of species Specific Mineral Mixture for Sheep and Goat	-	-	-	-	-
17		Irrigated	Rabi	Nutri garden	-	-	Nutrition Security	Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)	-	-	-	-	-
18			Summer	Value Addition	-	-	Empowerment development programme	EDP on Value addition to millets (Instant Products)	-	-	-	-	-

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 Check (Rs./ha)				Economics of Demonstration (Rs./ha)			
							Demo			Check		COC	Gross Return	Net Return	BCR	COC	Gross Return	Net Return	BCR
							H	L	A										
Groundnut	Integrated Crop Management in Groundnut	G-2-52	-	Irrigated	05	2.0	30.15	24.5	26.8	23.1	16.2	49191	140864	91673	2.86	48757	163419	114662	3.35
Pigeon pea	Integrated Pest Management in Pigeonpea	TS-3R	-	Rainred	10	4.0	12.25	10.45	11.15	10.45	6.68	28750	66874	38124	2.33	21500	71360	49860	3.32
Chickpea	Integrated Pest Management in Chickpea	JG-11	-	Rainfed	10	4.0	21.0	18.75	19.75	18.45	7.04	31400	84870	53470	2.7	26200	90850	64650	3.47
Paddy	Water Management (AWD) in Paddy	BPT-5204	-	Irrigated	10	4.0	74.25	69.35	71.19	64.84	9.78	60123	113470	53347	1.89	56112	124576	68463	2.22
Paddy	Eco friendly management of pests in Paddy ecosystem	BPT-5204	-	Irrigated	10	4.0	71.5	69.55	70.25	65.5	7.27	60100	111350	51250	1.85	45200	119425	74225	2.64
Tomato	Integrated Crop Management in Tomato	Tomato: Arka Rakshak	-	Irrigated	05	2.0	Ongoing Flowering stage												
Onion	Introduction of high yielding onion variety Bhima Dark Red	Bhima Dark red	-	Irrigated	05	2.0	Ongoing Bulb formation stage												
Chilli	Integrated Pest Management in Chilli (Murda complex & Spodoptera)	-	Local Hybrid	Irrigated	05	2.0	51.25	49.45	50.15	47.33	5.96	175500	705217	52977	4.02	145200	747235	602035	5.15
Fig	Integrated Crop Management in Fig	Krishna brown	-	Irrigated	05	2.0	Ongoing Fruiting stage												
Mango	Integrated Crop Management in Mango			Irrigated	05	2.0	Ongoing Fruiting stage												

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of Check (Rs./ha)				Economics of Demonstration (Rs./ha)			
							Demo			Check		COC	Gross Return	Net Return	BCR	COC	Gross Return	Net Return	BCR
							H	L	A										
Cotton	Management of Pink Bollworm in Bt-Cotton		Local Hybrid	Irrigated	10	4.0	31.55	29.75	30.85	26.1	18.2	56100	140940	84840	2.51	43500	166590	123090	3.82
Small ruminants	Establishing fodder banks in sheep and goat rearing			Irrigated	5	100/S Sheep & Goat	**												
Sheep and Goat	Demonstration of multicut Fodder Sorghum variety-Cofs-31	Cofs-31	-	Irrigated	10	2.0	***												
Dairy	Achieving optimum post weaning growth in calves with probiotics	Claves	-	-	20	20 claves													
Dairy	Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows	Cows	-	-	20	20 Cows													
Sheep and Goat	Demonstration of species Specific Mineral Mixture for Sheep and Goat	Sheep and Goat	-	-	20	100 Sheep & Goat	****												
Nutri garden	Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)			Irrigated															
Value Addition	EDP on Value addition to millets (Instant Products)																		

* 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 29 Yield (Tones/ha/2 cuttings)	70.00	28.00	150 %	37500	70000	32500	2.10	19000	28000	11000	1.47
Hedge Lucerne Yield(Tones/ha/2 cuttings)	40	-	-	15350	40000	24650					
Styloxanthus Yield(Tones/ha/2 cuttings)	18	-	-	8000	18000	10000					
Body wt gain in sheep (Kg/ month)	3.7	2.8	32 %								
Body wt gain in Goat (Kg/ month)	2.8	2.2	27 %								

***** Result of Demonstration of multicut Fodder Sorghum variety-Cofs-31**

Parameter with unit	Demo	Check (SSV)	% Increase
Fodder yield Co FS 31 Yield (Tones/Ha/year) 3 Harvest	102.00	48.00	112.5
Cost of cultivation	52000	29000	
Gross returns	102000	48000	
Net return	50000	19000	
B:C ratio	1.96	1.65	
Body wt gain (Kg/ month) in sheep	3.2	2.6	23 %
Body wt gain (Kg/ month) in Goat	2.4	2.0	20 %
Dairy animals			
Milk yield	8	7	14 %
SNF	9	8.7	3 %
Fat%	6	5.9	1.6 %

****** Result of Demonstration of species Specific Mineral Mixture for Sheep and Goat**

Details	Demonstration	Check	% Increase
Body weight gain in Sheep (Kg/ month)	3.1	2.6	19 %
Body weight gain in Goat (Kg/ month)	2.6	2.1	23 %

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 Crop Management in Groundnut		
No of pods /plant	22.4	16.0
Yield /ha,	26.8	23.1
Tikka disease inci %	15	65
No. of spodoptera moths /trap/week	0	86
Integrated Pest Management in Pigeonpea		
pod borer/plant	0.8	1.7
maruca/plant	1.8	2.7
damaged pods/plant	1.7	5.3
number of moths/plant	40	0
yield(q/ha)	11.15	10.45
Integrated Pest Management in Chickpea		
Damaged pods/plant (% pod damage)	0.7	4.2
Number of moths (Helicoverpa)/trap/week	47.0	0.0
yield(q/ha)	19.75	18.45
Water Management (AWD) in Paddy		
No. of tillers/hill	25.2	22.2
Plant height	91.7	87.2
Grain yield (kg/ha)	71.19	64.84
Water use efficiency (kg/ha mm)	6.60	4.49
Water Requirement (mm)	1082	1446
BPH/hill Count	8.40	17.80
Eco friendly management of pests in Paddy ecosystem		
BPH	4.51	8.77
stem borer	7.55	9.52
plant height	87.56	87.11
number of effective tillers	18.01	15.17
yield(q/ha)	70.25	65.5
Integrated Crop Management in Tomato		
Yield, Leaf curl PM incidence	-	-
Introduction of high yielding onion variety Bhima Dark Red		
Thrips Purple blotch, Yield	-	-
Integrated Pest Management in Chilli (Murda complex & Spodoptera)		
Affected leaves per plant (murda complex)	5.5	20.3
Number of moths (Spodoptera)/trap/week	121.0	0.0
yield(q/ha)	50.15	47.33
Integrated Crop Management in Fig		
Yield Rust incidence	-	-
Integrated Crop Management in Mango		
Yield Fruit fly incidence PM incidence	-	-
Management of Pink Bollworm in Bt-Cotton		
No. of rosette flowers / plant	1.1	6.06
No. of larvae present in 20 unopened bolls	2.0	12.3
No. of bad opened bolls per plant	2.1	18.33
yield(q/ha)	30.85	26.1
Establishing fodder banks in sheep and goat rearing		
Fodder yield Body Wt gain	-	-
Demonstration of multicut Fodder Sorghum variety-Cofs-31		
Body wt gain (Kg/ month) in sheep	3.2	2.6
Body wt gain (Kg/ month) in Goat	2.4	2.0

Milk yield **SNF** **Fat%**	8 9 6	7 8.7 5.9
Achieving optimum post weaning growth in calves with probiotics		
-	-	-
Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows		
-	-	-
Demonstration of species Specific Mineral Mixture for Sheep and Goat		
Body Wt gain	-	-
Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)		
Total production of vegetable Daily utilization of Fruits & Vegetables in diet Amount Saved over the period Preference Food adequacy Nutritional anthropometric measures BMI,	-	-

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 Crop Management in Groundnut	Demo recorded higher yield less Pest & Disease incidence	Farmers opined that the variety recorded good yield with lesser pest and disease incidence which reduced the cost of cultivation
Integrated Pest Management in Pigeonpea	Integrated pest management performs good with reduction in cost of cultivation	Cost Reduction : 7250/ha Price of Pigeonpea is Rs. 6400/q
Integrated Pest Management in Chickpea		
Water Management (AWD) in Paddy	Water management in demo has resulted in increased yield and less BPH incidence which is the major problem in Paddy ecosystem	Farmers opined that using pani pipe can reduce water requirement & less incidence of BPH
Eco friendly management of pests in Paddy ecosystem		
Integrated Crop Management in Tomato		
Introduction of high yielding onion variety Bhima Dark Red		
Integrated Pest Management in Chilli (Murda complex & Spodoptera)		
Integrated Crop Management in Fig		
Integrated Crop Management in Mango		
Management of Pink Bollworm in Bt-Cotton	Integrated pest management performs good with reduction in cost of cultivation	CR: 12600/ha Price of Cotton is Rs. 5400/ q
Establishing fodder banks in sheep and goat rearing	The farmers were satisfied with the increased fodder yield (150 %) and increase in body wt gain in sheep (32 %) and goat (27 %)	
Demonstration of multicut Fodder Sorghum variety-Cofs-31	The farmers were satisfied with the increased fodder yield (112.5 %) ,increase in body wt gain in sheep (23 %) and goat (20 %) and 14 % increase in milk yield .	
Achieving optimum post weaning growth in calves with probiotics		
Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows		

Demonstration of species Specific Mineral Mixture for Sheep and Goat		
Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)		
EDP on Value addition to millets (Instant Products)		

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																
	Achieving optimum post weaning growth in calves with probiotics		20													
	Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows		20													
Sheep and goat																
	Demonstration of species Specific Mineral Mixture for Sheep and Goat		20													

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

** BCR= GROSS RETURN/GROSS COST

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
Achieving optimum post weaning growth in calves with probiotics		
Body Wt gain in calves Diarrohea incidence Skin & Hair texture		
Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows		
Demonstration of species Specific Mineral Mixture for Sheep and Goat		
Body Wt gain		

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
Achieving optimum post weaning growth in calves with probiotics		
Popularization of Integrated Nano-fibers for induction oestrus in repeat breading cows		
Demonstration of species Specific Mineral Mixture for Sheep and Goat		

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								

* 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																
Others (pl.specify)																
	Demonstration of Nutrition Gardens for Year Round Nutrition Security (New)															
	EDP on Value addition to millets (Instant Products)															

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

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

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

5. B8. Feedback on enterprises demonstrated

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

5.B.9. Farm implements and machinery

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

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

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

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

5. B10. Feedback on farm implements demonstrated

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	3	164	
2	Farmers Training	58	1624	
3	Media coverage	28		
4	Training for extension functionaries	1	28	
5	Live web telecast	6	228	
6	Online Training programs	31	868	

PART VI – DEMONSTRATIONS ON CROP HYBRIDS (2020)

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															
Total															
Oilseeds															
Total															
Pulses															
Total															
Vegetable crops															
Bottle gourd															
Capsicum															
Others (pl.specify)															
Total															
Total															
Commercial crops															
Sugarcane															
Coconut															
Others (pl.specify)															
Total															
Fodder crops															
Maize (Fodder)															
Sorghum (Fodder)															
Others (pl.specify)															
Total															

H-High L-Low, A-Average

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

Feedback on crop hybrids demonstrated

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

PART VII. TRAINING (2020)

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	2	25	3	28	16	2	18	41	5	46
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	2	28	2	30	19	1	20	47	3	50
Crop Diversification	2	33	3	36	21	2	23	54	5	59
Integrated Farming	2	47	2	49	24	3	27	71	5	76
Micro Irrigation/Irrigation	2	36	1	37	22	2	24	58	3	61
Seed production	1	26	3	29	17	2	19	43	5	48
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
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	1	15	3	18	14	2	16	29	5	34
Off-season vegetables	1	26	2	28	12	1	13	38	3	41
Nursery raising	1	29	0	29	14	0	14	43	0	43
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	2	39	3	42	19	2	21	58	5	63
Protective cultivation	1	22	0	22	16	0	16	38	0	38
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
b) Fruits										
Training and Pruning	1	22	3	25	9	1	10	31	4	35
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	2	34	2	36	19	1	20	53	3	56
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				0			0	0	0	0
Production and Management technology	1	21	2	23	9	1	10	30	3	33
Processing and value addition	1	28	0	28	12	0	12	40	0	40
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	1	19	1	20	11	2	13	30	3	33
Post harvest technology 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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Soil Health and Fertility Management				0			0	0	0	0
Soil fertility management	1	45	0	45	9	0	9	54	0	54
Integrated water management	1	39	0	39	12	0	12	51	0	51
Integrated nutrient management	2	43	2	45	19	1	20	62	3	65
Production and use of organic inputs	1	29	0	29	11	0	11	40	0	40
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	33	0	33	13	0	13	46	0	46
Nutrient use efficiency	1	28	0	28	11	0	11	39	0	39
Balanced use of fertilizers	1	36	1	37	9	2	11	45	3	48
Soil and water testing	1	25	0	25	12	0	12	37	0	37
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Livestock Production and Management										
Dairy Management	4	128	9	137	52	7	59	180	16	196
Poultry Management	2	44	3	47	24	4	28	68	7	75
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	1	34	0	34	12	0	12	46	0	46
Animal Disease Management	1	29	0	29	9	0	9	38	0	38
Feed and Fodder technology	2	38	3	41	19	0	19	57	3	60
Production of quality animal products	1	29	0	29	11	0	11	40	0	40
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	2	9	34	43	5	17	22	14	51	65
Design and development of low/minimum cost diet	1	2	22	24	2	11	13	4	33	37
Designing and development for high nutrient efficiency diet	1	5	11	16	3	9	12	8	20	28
Minimization of nutrient loss in processing	1	33	0	33	14	0	14	47	0	47
Processing and cooking	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	1	8	27	35	3	9	12	11	36	47
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	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	0	0	0	0	0	0	0	0	0	0
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Agril. Engineering				0			0	0	0	0
Farm machinery and its maintenance	1	24	3	27	13	0	13	37	3	40
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	1	33	0	33	16	0	16	49	0	49
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				0			0	0	0	0
Integrated Pest Management	4	88	8	96	48	4	52	136	12	148
Integrated Disease Management	2	42	3	45	16	2	18	58	5	63
Bio-control of pests and diseases	2	37	0	37	19	0	19	56	0	56
Production of bio control agents and bio pesticides	2	31	4	35	21	1	22	52	5	57
Others (pl.specify)	0	0	0	0	0	0	0	0	0	0
Fisheries				0			0	0	0	0
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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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				0			0	0	0	0
Seed Production	1	34	0	34	9	0	9	43	0	43
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	1	26	0	26	16	0	16	42	0	42
Vermi-compost production	2	44	8	52	23	3	26	67	11	78
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	1	18	8	26	9	2	11	27	10	37
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				0			0	0	0	0
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	1	5	19	24	2	9	11	7	28	35
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	0	0	0	0	0	0	0	0	0	0
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**	**1469**	**195**	**1664**	**696**	**103**	**799**	**2165**	**298**	**2463**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	3	60	0	60	14	0	14	74	0	74
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	2	45	3	48	8	1	9	53	4	57
Integrated Farming	2	45	5	50	0	0	0	45	5	50
Micro Irrigation/Irrigation										
Seed production	2	45	10	55	0	0	0	45	10	55
Nursery management										
Integrated Crop Management										
Soil and Water Conservation	3	55	5	60	0	0	0	55	5	60
Integrated Nutrient Management	1	30		30	0	0	0	30	0	30
Production of organic inputs	1	20	10	30	0	0	0	20	10	30
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables	1	30	0	30	0	0	0	30	0	30
Nursery raising	2	55	0	55	0	0	0	55	0	55
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	35	0	35	0	0	0	35	0	35
Others (pl.specify)										
b) Fruits										
Training and Pruning	2	50	10	60	0	0	0	50	10	60
Layout and Management of Orchards										
Cultivation of Fruit	1	20	0	20	0	0	0	20	0	20
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	1	40	0	40	0	0	0	40	0	40
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management	3	60	0	60	0	0	0	60	0	60
Integrated water management										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils	2	40	5	45	0	0	0	40	5	45
Micro nutrient deficiency in crops	2	55	10	65	0	0	0	55	10	65
Nutrient use efficiency										
Balanced use of fertilizers	2	40	10	50	0	0	0	40	10	50
Soil and water testing	3	75	0	75	0	0	0	75	0	75
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	1	50	0	50	0	0	0	50	0	50
Poultry Management										
Piggery Management	1	30		30	0	0	0	30	0	30
Rabbit Management										
Animal Nutrition Management	1	20	10	30	0	0	0	20	10	30
Animal Disease Management										
Feed and Fodder technology	3	45	8	53	12	4	16	57	12	69
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	3	20	50	70	0	0	0	20	50	70
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	1	10	30	40	0	0	0	10	30	40
Processing and cooking	1	10	30	40	0	0	0	10	30	40
Gender mainstreaming through SHGs	1	10	30	40	0	0	0	10	30	40
Storage loss minimization techniques										
Value addition	3	30	45	75	14	6	20	44	51	95
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care	2	20	40	60	0	0		20	40	60
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance	1	35	10	45	0	0	0	35	10	45
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology	1	30	10	40	0	0	0	30	10	40
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	3	80	0	80	0	0	0	80	0	80
Integrated Disease Management	2	50		50				50		50
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										

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										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture	1	20	0	20	0	0	0	20	0	20
Others (pl.specify)										
CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**59**	**1260**	**331**	**1591**	**48**	**11**	**59**	**1308**	**342**	**1650**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production	1	25		25				25		25
Integrated farming	2	45	5	50				45	5	50
Seed production										
Production of organic inputs	2	45	10	55				45	10	55
Planting material production										
Vermi-culture										
Mushroom Production	1	30		30				30		30
Bee-keeping	1	30		30				30		30
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	30		30				30		30
Sheep and goat rearing	1	35		35				35		35
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**9**	**240**	**15**	**255**				**240**	**15**	**255**

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	2	50		50				2	50	50
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production	1	25		25				25		25
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping	1	30		30				30		30
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	1	30		30				30		30
Sheep and goat rearing	1	35		35				35		35
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	**6**	**170**	**0**	**170**				**122**	**50**	**172**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management	1	18	3	21				18	3	21
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	**1**	**5**	**20**	**25**				**5**	**20**	**25**
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total	**2**	**23**	**23**	**46**				**23**	**23**	**46**

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										
Integrated Pest Management										
Integrated Nutrient management	2	35	15	50				35	15	50
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	2	45	5	50				45	5	50
Household food security										
Any other (pl.specify)										
Total	**4**	**80**	**20**	**100**				**80**	**20**	**100**

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Increasing production and productivity of crops	2	80		80	10		10	90		90
1.b.	Commercial production of vegetables	1	34	4	38	17	0	17	51	4	55
2	**Production and value addition**								0		
2.a.	Fruit Plants	**1**	**45**	**4**	**49**	**15**	**3**	**18**	**60**	**7**	**67**
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**	2	40	10	50				40	10	50
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**	**3**	**56**	**8**	**64**	**28**	**4**	**32**	**84**	**12**	**96**
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition	2	30	10	40		20	20	30	30	60
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements	1	38	0	38	13	0	13	51	0	51
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management	2	48		48	19		19	67		67
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition	**1**	**34**	**8**	**42**	**14**	**3**	**17**	**48**	**11**	**59**
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
11.	**Home Science**										
11.a.	Household nutritional security	1	**8**	**29**	**37**	**5**	**9**	**14**	**13**	**38**	**51**
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women	1	5	35	40	2	13	15	7	48	51
11.d.	Others (pl.specify)										
12	**Agricultural Extension**										
12.a.	CapacityBuilding and Group Dynamics	1	20	10	30				20	10	30
12.b.	Others (pl.specify)										
	Total	**16**	**368**	**98**	**506**	**123**	**52**	**175**	**521**	**160**	**677**

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

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

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

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

S. 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	**Dairy farmer entrepreneur**	**25.02.2019**	**25.02.2019**	**20**							**20**		**20**		
2.	**Quality seed grower**	**25.02.2019**	**25.02.2019**	**20**							**20**		**20**		

PART VIII – EXTENSION ACTIVITIES (2020)

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
Field Day	6	215	17	232	112	9	121	10	2	12
Kisan Mela	5	1200	500	1700	2000	300	2300	350		350
Kisan Ghosthi	2	40	10	50	60	20	80	5	2	7
Exhibition	5	800	200	1000	1400	100	1500	55	2	57
Film Show										
Method Demonstrations	9	240	40	280	150	20	170	5	2	7
Farmers Seminar										
Workshop	3	105	10	115	45	5	50	8	2	10
Group meetings	12	135	15	150	155	15	170	5		5
Lectures delivered as resource persons	38	1064	76	1140	532	38	570	190	114	304
Newspaper coverage	24									
Radio talks	17									
TV talks	9									
Popular articles	7									
Extension Literature	9									
Advisory Services	490	260	10	270	190	30	220	-	-	0
Scientific visit to farmers field	178	450	240	690	240	90	330	80	40	120
Farmers visit to KVK	515	240	30	270	160	15	175	45	15	50
Diagnostic visits	20	85	5	100	38	6	34	12	3	15
Exposure visits	6	200	15	215	85	5	90	12	3	15
Ex-trainees Sammelan	5	120	-	120	145	-	145	-	-	0
Soil health Camp	6	135	15	150	85	15	100	15	-	15
Animal Health Camp	2	200	5	205	250	45	295	20	-	20
Agri mobile clinic	3	315	23	338	96	13	109	18	7	25
Soil test campaigns	1	65	5	70	30	4	39	4	1	5
Farm Science Club Conveners meet	2	40	10	50	60	20	80	5	2	7
Self Help Group Conveners meetings	1	32	3	35	12	3	15	2	1	3
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	11	1450	150	1600	850	90	940	45	15	50
Any Other (Specify)										
Total	**1386**	**7391**	**1379**	**8780**	**6695**	**843**	**7533**	**886**	**211**	**1077**

8.2 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
Jal Shakti Abhiyan	-	-	-	-	-	-	-	-	-	-
Fertilizer Use Awareness Campaign		**18**		**18**	**9**		**9**	**17**	**2**	**19**
National Animal Disease Control Programme		**12**		**12**	**7**		**7**	**12**	**1**	**13**
Tree Plantation Campaign		6	4							
Environment Day	05.06.2020	9						6	4	
Cotton day	07.10.2020	22	0	22	9	0	31	5	3	8
World Food Day & Mahila Kisan	16.10.2020	19	37	56	5	11	16	5	6	11
Krishi Nirata Mahila Dinaacharane	04.12.2020	8	26	34	3	9	12	2	4	6
World Soil Day	05.12.2020	68	7	75	26	2	28	11	5	16
Farmers day	23.12.2020	53	5	58	21	0	21	8	3	11
Women's Day	08.03.2021	12	39	51	6	17	23	3	5	8

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2020)

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 Bengalgram	TS-3R BGD-103	6.0 11.0	Under processing	-
Commercial crops					
Vegetables					
Flower crops					
Spices					
Fodder crop seeds	Fodder sorghum	CoFs-29	4.0	Under processing	
Fiber crops					
Forest Species					
Others (specify)					
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	50	500	50
Fruits	Lemon Fig	Khazi lime Belleri	5200 200	Seedling stage 6000	- 50
Ornamental plants	-	-	-	-	-
Medicinal and Aromatic	-	-	-	-	-
Plantation	-	-	-	-	-
Spices	-	-	-	-	-
Tuber	-	-	-	-	-
Fodder crop saplings	-	-	-	-	-
Forest Species	-	-	-	-	-
Others(specify)	-	-	-	-	-
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
	-	-	-	-	-
	-	-	-	-	-
Total	-	-	-	-	-

9.C. Production of Bio-Products: Nil

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

9.D. Production of livestock: Nil

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals	-	-	-	-
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
Others (Pl. specify)	-	-	-	-
Poultry	-	-	-	-
Broilers	-	-	-	-
Layers	-	-	-	-
Duals (broiler and layer)	-	-	-	-
Japanese Quail	-	-	-	-
Turkey	-	-	-	-
Emu	-	-	-	-
Ducks	-	-	-	-
Others (Pl. specify)	-	-	-	-
Piggery	-	-	-	-
Piglet	-	-	-	-
Others (Pl.specify)	-	-	-	-
Fisheries	-	-	-	-
Fingerlings	-	-	-	-
Others (Pl. specify)	-	-	-	-
Total	-	-	-	-

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

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

(A) KVK Newsletter:

Date of start	Periodicity	Number of copies distributed
April to June 2020-21	Quarterly	e-newsletter/50
July to September 2020-21	Quarterly	e-newsletter/50
October to December 2020-21	Quarterly	e-newsletter/50
January to March 2020-21	Quarterly	e-newsletter/50

(B) Literature developed/published

Item	Number
Research papers- International	3
Research papers- National	9
Technical reports	5
Technical bulletins	5
Popular articles - English	1
Popular articles – Local language	6
Extension literature	8
Training Manuals	5
TOTAL	**42**

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	
4.	Facebook account name	KVK Raichur (Profile) ICAR-Krishi Vigyan Kendra Raichur (Page)	
5.	Instagram account name	KVKRaichur	
6.	Twitter account name	ICAR-Krishi Vigyan Kendra Raichur	
7.	YouTube channel name	ICAR-Krishi Vigyan Kendra Raichur	
8.	**Website**	**www.kvkraichur.org**	

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

Success stories: 1. Innovation of Drip Line Roller and Fertilizer Dispenser

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



Indian Broad Bean as a relay crop in Bitter gourd



Indian Broad Bean Crop in staking system



Indian Broad Bean as a relay crop in Bitter gourd

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

<table>
<tr><td>18.</td><td>Economics/ Profitability of innovation / technology (costs and return per unit/ intervention / area / household)</td><td>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</td></tr>
<tr><td>19.</td><td>Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting</td><td>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</td></tr>
<tr><td>20.</td><td colspan="2">Illustrate with high quality photos with caption, graphs</td></tr>
<tr><td><u>PHOTO 1</u></td><td>
Drip pipe-line rolling machine</td><td>
Drip pipe-line rolling machine</td></tr>
<tr><td></td><td>
Bullock drawn chemical drilling implement</td><td>
Bullock drawn chemical drilling implement</td></tr>
</table>

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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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

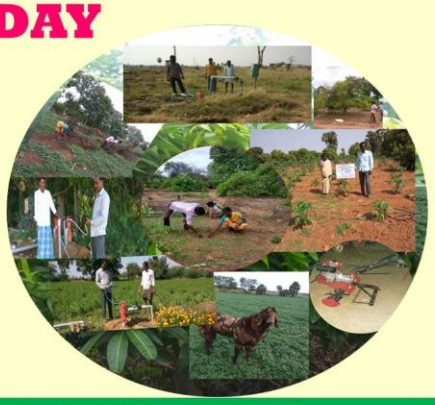
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ICAR-Krishi Vigyan Kendra, Raichur

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

- 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
-	-	-	-	-

10 F. Technology Week celebration during 2020: Nil

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

Other Details

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

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

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

Status of establishment of Lab : Yes

1. Year of establishment : 3-9-2005
2. **List of equipments purchased with amount :**

Sl. No	Name of the Equipment	Qty.	Cost
1	Hot plate	01	3,046
2	Hot Air Oven digital	01	17,228
3	Gas lighter	01	72
4	L.P Gas cylinder	02	1,900
5	Grinder(100x500 mm)	01	15,435
6	Laboratory table(88x30x36 with granite top)	04	75,776
7	Laboratory table(72x30x36 with granite top)	04	67,724
8	Laboratory table(58x30x36 with granite top)	03	50,793
9	Laboratory table(58x36x36 with granite top)	03	50,793
10	FGCL - 0378 flame photometer	01	32,040
11	FGL 1612 PH analyzer	01	8,900
12	SL-177 scanning visible spectrophotometer	01	40,050
13	Software interfacing spectrophotometer SL-177	01	23,451
14	M-183 EC TDS analyzer	01	9,790
15	Laboratory racks(30x50x9)	06	6,150
16	Slated angle racks	05	7,105
17	Wash basin	03	4,500
18	Exhaust fan	03	4,500
19	Laboratory stools	05	4,140
20	Digestion system KES-62 + Nitrogen distillation system	02	1,42,844
21	Double distillation water still	01 set 01 set	62,444
22	Electroacid neutralizer	01	42,185
23	BPL electronic machine(Physical)	01	10,890
24	Shaking machine(Model-L)	01	47,025
25	V-Guard stabilizer 500VA	01	1,220
26	Refrigerator stand	01	300
27	Refrigerator	01	10,765
28	Electronic weighing machine (Chemical)	01	57,000
29	Stabilizer	01	19,800
30	Canon Aqua pure	01	12,500
31	PH. Meter	01	15000
32	Table Top Balance	01	11000
Total			**856366**

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	2197	2142	1213	444450
Water Samples	1127	1148	828	119800
Plant samples	0	0	0	0
Manure samples	1	1	1	150
Total	**3324**	**3290**	**2041**	**564250**

C. Details of samples analyzed during the 2020:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount
Soil Samples	**684**	**409**	**95**	**136800**
Water Samples	**136**	**136**	**38**	**13600**
Plant samples	**-**	**-**	**-**	
Manure samples	**-**	**-**	**-**	
Total	**820**	**545**	**133**	**150400**

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.	2017	Not Working

B. Details of soil samples analyzed during 2019 and since establishment with Mobile Soil Testing Kit:

	During 2019	During 2020	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 during 2020:

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL					
Mobile Soil Testing Ki					

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No.)	Media coverage (No.)
1	142	25	-	-	University Officers KSDA-3	1

PART XII. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
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

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
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**

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

PART XIII - LINKAGES

13A. Functional linkage with different organizations

Name of organization	**Nature of linkage**
RKVY-IFS Project	Promotion of Integrated Farming System for sustainable livelihoods of farming community
Dept. of Agriculture	Trainings, problematic field visits, meetings, bimonthly workshop & soil testing campaigns, survey
GOI/ ICAR	High density planting system at KVK
ATMA	Trainings
Dept. of Horticulture	Trainings & field visits, soil testing campaigns, survey
Dept. of Sericulture	soil testing campaigns
Dept. of Women and Child Development	Trainings, demonstrations, meetings
Dept. of Animal Husbandry	Trainings, animal health camps and demonstrations Supply of Giriraja birds at subsidized rate Fodder minikit distribution
KMF	Trainings & Exposure visits
MCF	Technical backup, training
ZUARI	Training, seminar
NABARD	Trainings, publications, seminars, public awareness programme
NGOs	
SEWA	Trainings, demonstrations, survey, joint implementation
SWARD	Trainings, demonstrations, survey
SPRED	Survey, Trainings,
BAIF	Trainings, trials & Demonstrations
NYK	Trainings
Samarthanam	Job fair for Physically disabled
MAYARADA	Trainings, demonstrations, survey, joint implementation and Animal Health camp
Zilla Panchyath Raichur and Women and Child development Department with ICAR-KVK-UAS, Raichur	District nutrition monitoring cell: Attended three meetings conducted by CEO, ZillaPanchyath and Women and Child Development department as well as health department Home Scientist suggested to incorporate 5% foxtail millet in the infant food which requires around 3-4 tonnes of foxtail millet per month for the district which is helpful for the millet growing farmers Accordingly this year proposed FLD on nutrition garden in Anganawadi centers.

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Evaluation of Metolachlor 50% EC against complex weed flora in cotton and its effect on succeeding crop	UPL Mumbai	7.920	2
Evaluation of Metolachlor 50% EC against complex weed flora in maize & its effect on succeeding crop, Bengalgram	UPL Mumbai	7.150	2
Evaluation of bio-efficacy &phtotoxicity of Sulfentrazone 39.6% SC against weed flora on soybean & its effect on soybean crop.	UPL Mumbai	3.575	1
Enhancing the farmers income & welfare	KAPC GOK	25.00	3
Improved programme integrated in rainfed areas KWDP (Karnataka Watershed Development Project-II	World Bank through GOK	403.0	5
Capacity development trainings for the farmers implementing watershed development activities in micro watershed villages of Raichur	KSDA, GOK Bengaluru	2.00	1
Kisan Biotech Hubfor farmers income & welfare	DBT GOI	31.00	2
Paramparagath Krishi VikasYojane	ATARI, Bengaluru GOI	3.30	2

13C. Details of linkage with ATMA

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**				
02	**Research projects**	SREP	03	03	Prepared and submitted SREP report
03	**Training programmes**				
04	**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**	
05	**Extension Programmes**	01			
	Kisan Mela	01			
	Technology Week	02			

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
	Exposure visit	04			
	Exhibition	01			
	Soil health camps	04			
	Animal Health Campaigns				
	Others (Pl. specify)				
06	**Publications**				
	Video Films	**Strategic Research and Extension Plan of Raichur district.**			
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (Pl.specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

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

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

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

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	Message type (Text/Voice)	SMS/voice calls sent (No.)						Total SMS/Voice calls sent (No.)	Farmers benefitted (No.)
			Crop	Livestock	Weather	Marketing	Awareness	Other enterprises		
January	6	Text message	3	1	0	1	1	-	6	9534
February	7	Text message	3	1	0	1	1	1	7	9534
March	6	Text message	2	1	0	1	1	1	6	9534
April	7	Text message	3	1	0	1	1	1	7	9534
May	5	Text message	2	1	1	0	1	0	5	9534
June	6	Text message	3	1	1	0	1	0	6	27266
July	8	Text message	5	1	1	0	1	0	8	27266
August	6	Text message	3	0	1	1	1	0	6	27266
September	7	Text message	3	1	0	1	1	1	7	27266
October	8	Text message	5	1	1	0	1	0	8	27266
November	6	Text message	3	1	0	1	1	0	6	27266
December	7	Text message	3	1	0	1	1	1	7	27266
Total	**79**		**38**	**11**	**5**	**8**	**12**	**5**	**79**	**238532**

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									
Redgram	02.07.2020	10.01.2021	2.0	TS-3R	Breeder to foundation	6.0	38,900	Under processing	
Bengalgram	12.11.2020	16.02.2021	2.0	BGD-103	Breeder to foundation	11.0	21,500	Under processing	
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									
Fodder									
Fodder Sorghum	09.07.2020	Raton crop	1.0	CoFs-29	-	4.0	9,600	Under processing	

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

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

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

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) : 16 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	-		
May	-		Lock down
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	Trainings, OFT/ FLD Demo. And Extension Activities	Trainings, OFT/ FLD Demo. And Extension Activities
2	WhatsApp groups Create	12 WhatsApp groups Created
3		

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

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.)		
1,00,000/-	**99632**	**MI system**	**-**	**1**	**-**	**-**	**-**	**-**	**-**

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY)

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	Yeragunta village, Raichu taluka	115.3	35.5	155.6	0.42	Vermicompost units, , Bio-digester & WDC	Groundnut, paddy	K-9, BPT-5204	PSB, , Rhizobium, Trichoderma, Pseudomonas, Metarhizium, Beauveria Pheromone traphs, &yellow sticky traps	Pod filling & grain filling stage	-	-
2	Sutanapura village, Lingasugur taluka	125.6	23.5	210.0	0.46	Vermicompost units, Bio-digester & WDC	Groundnut Sapota, guava, cuury leaf, fig	-	PSB, Azospirillium, Rhizobium, Trichoderma, Pseudomonas, Metarhizium, Beauveria	-	-	-

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	8	27255	27255	4 (organized training programmes by KVK)	138

15.3 Fertilizer awareness programme 2020: Nil

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

15.4 Seed Hub: Nil

Crops	*Variety*	*Year of release*	*Production*				*Remarks*
			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	Pigeonpea	TS-3R and Gulyal	10	25	10	25
2	Chickpea	JG-11 & Anigeri-1	10	25	10	25
3	Blackgram	DU-1 / TAU-1 @ Local	30	75	30	75
	Total		**50**	**125**	**50**	**125**

15.6 CFLDs on Pulses:

Sl. No.	Crop	Varieties demonstrated and check	Allocated		Implemented	
			Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
1	Sunflower	RFSH-1887 & Pvt. Hyb.	20	50	20	50
2	Groundnut	K-9 & Local	40	100	40	100
3	Mustard	PMD-PM-35 & Local Hyb.	20	50	20	50
	Total		**80**	**200**	**80**	**200**

15.7 Krishi Kalyan Abhiyan

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
Off campus training programme on										

15.8 Micro-Irrigation

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
Off campus training programme on water management techniques in cotton	19.11.2020	34	01	35	13	0	13	1	1	2
Off campus training programme on water management techniques in Redgram	23.11.2020	39	0	39	9	0	9	2	0	2
Off campus training programme on water management techniques in Groundnut	02.12.2020	19	02	21	22	1	23	3	2	5
Off campus training programme on water management techniques in Paddy	21.01.2021	27	03	30	12	1	13	4	3	7
Off campus training programme on water management techniques in Chilli	25.01.2021	33	0	33	14	0	14	3	0	3

15.9 Tribal Sub-Plan (TSP) : Nil

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

15.10 SCSP : Nil

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

15.11 NARI : Nil

Activity	Achievement	
	Number of activity	No. of farmers/ beneficiaries
OFTs – Nutritional Garden (activity in no. of Unit)		
OFTs – Bio-fortified Crops (activity in no. of Unit)		
OFTs – Value addition (activity in no. of Unit/Enterprise)		
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
FLDs – Nutritional Garden (activity in no. of Unit)		
FLDs – Bio-fortified Crops (activity in no. of Unit)		
FLDs – Value addition (activity in no. of Unit/Enterprise)		
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)		
Trainings		
Extension Activities		

15.12 KVK Portal

No. of Events added by KVKs	No. of Facilities added by KVKs	Filled Report on Package of Practices (Y/N)				Filled Profile Report (Y/N)							
		Crop	Livestock	Fisheries	Horticulture	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish
379	7	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

15.13 KSHAMTA: Nil

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

15.14 DFI

Sl	District	Taluks	Villages	Farmers (No.)	Average Benchmark Income (Rs/year)	Crops/ enterprises	KVK Interventions	Additional Net Income generated due to KVK interventions (Rs/year)	Total income of farmer (Rs/year)
1	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 - FINANCIAL PERFORMANCE

16A. 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		

16B. Utilization of KVK funds during the year 2020-21 (Rs. in lakh)

Sl. No.	Particulars	AB A/c No.	DAC	Sanctioned amount	Released Amount	Expenditure	Balance
1	Pay and Allowance	7301	22 to 48	12620000	10651440	11247985	-596545
2	Travelling Allowance	7301	121	150000	597580	5077	144923
3	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	7301	200	200000		198210	1790
4	POL, repair of vehicles, tractor and equipment's	7301	301	125000		124254	746
5	Meals/refreshment for farmers / extension personnel @ Rs. 150/person/day	7301	580	100000		69964	30036
6	Training material (need based materials and equipment's for conducting the training)	7301	570	75000		11700	63300
7	Frontline demonstration	7301	571	308000		250272	57728
8	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	7301	584	96000		60428	35572
9	Training of Extension functionaries	7301	581	25000		2560	22440
10	Extension Activities	7301	579	30000		21850	8150
11	EDP / Innovative activities	7301	587	30000		8400	21600
12	Soil & Water Testing & Issue of Soil Health Cards	7301	572	25000		6755	18245
13	Maintenance of Building	7301	884	50000		47738	2262
14	Nutrigardens – 25 new + 25 ongoing demos	7301	340	28000		10955	17045
15	Library (purchase of journal, Periodicals, News paper & Magazines	7301	467	5000		2202	2798
			Grand Total	**13867000**	**11249020**	**12068350**	**-169910**

16C. 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
April 2018 to March 2019	7,47,691/-	7,90,769/-	58,219/-	6,57,241/-
April 2019 to March 2019	6,57,241/-	3,92,702/-	4,20,869/-	9,80,700/- (Rs. 407800 Seeds stock)
January to December 2020	12,17,688/-	19,27,444/-	17,54,521/-	14,08,116/-

17. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates

18. **Please include any other important and relevant information which has not been reflected above (write in detail). Like details regarding FPO formation, Achievements during COVID-19 lockdown period.**

I. TEACHING: Online classes were conducted for Jr. M.Sc. (Agri) and Ph.D. Students for the following courses during COVID-19 lockdown period.

S. No.	Course No.	Course title	Credit Hr.	Academic year	Degree programme & Semester	No. of students attended
1.	AGR-608	Advances in Soil and Water conservation and Watershed management	2+1	2019-20	I Ph.D. II semester	3
2.	AGR-512	Dryland Farming and Watershed	2+1	2019-20	Jr. M. Sc. (Agri) II Sem	28

II. RESEARCH: The following NARP approved experimental trials were analysed through statistical and presented during Annual Technical Meet during COVID-19 lockdown period.

Sl. No.	Title of the Project	Contd. /New	Duration
1.	Yield maximization through in-situ moisture conservation practices in conjunction with nutrient levels in Bt cotton	C	2 years
2.	Studies on *Melia dubia* L. based agro forestry system in shallow black soils	C	5 years
3	Catchment-storage-command relationship for enhancing water productivity in micro watershed	C	5 years
4	Evaluation of Metolachlor 50% EC against complex weed flora in cotton and its effect on succeeding crop	C	2
5	Evaluation of metolachlor 50% EC against complex weed flora in maize & its effect on succeeding crop, Bengalgram	C	2
6	Evaluation of bio-efficacy & phtotoxicity of Sulfentrazone 39.6% SC against weed flora on soybean & its effect on soybean crop.	C	1
7	Evaluation of mustard and chickpea varieties under residual moisture condition in paddy	N	1

III. EXTENSION:

1. Establishment of AGRIWAR ROOM at KVK, Raichur

Agriwar room was inaugurated by the Hon'ble Vice Chancellor of UAS, Raichur along with all officers, HoDs and KVK staffs of the university.

Sl. No.	Problems faced by farmers	No. of contact farmers	Percentage
1.	Marketing link problems and solution	107	22
2.	Crop loss and solution	41	8
3.	Soil testing and remedies	55	11
4.	Pest and Disease incidence and their management	14	3
5.	Subsidy related problems and solutions	21	4
6.	Production technologies	82	17
7.	Farm machineries	10	2
8.	Input related issues	90	18
9.	Animal Husbandry related problems and solutions	00	0
10.	Other related issues	76	15
	Total	**496**	**100**

2. Abstract of Consultancy Services:

Particulars	Number of Activity
1) Field visits	15
2) Farmers visit to KVK	23
3) Diagnostic visit to farmer's fields	05
4) Consultancy over phone	110
5) Mobile SMS (text)	45
6) What's app PPT messages	06

3.Whatsapp:

i. **Crop : Paddy** Stage : Grain filling/harvesting stage

- Irrigate crop during grain filling stage
- Use combined harvester for harvesting

ii. **Crop : Summer irrigated Groundnut**

- Stage : Vegetative/Peg initiation stage
- Application of gypsum @ 200kg/acre
- Foliar spray of 0.5% each ferrous sulphate (FeSO4) and Zinc sulphate (ZnSO4)
- **Weeds:** Spray of imazethapyr/propaquizafop @ 1.00ml/litre of water for grassy weeds

iii. **Crop : Black gram in paddy fallows**

- Stage : Vegetative stage
- **Yellow mosaic virus: spray of** imidachloprid @ 0.3 ml per litre of water

iv. Crop: Onion

- Stage: vegetative stage
- **Weeds**: Spray of Oxyfluorfen 23.5% EC @ 1.46ml/litre

4. Special messages on Covid-19

i. Migrant labours who have returned from Maharashtra, Goa, Telangana, Mangalore, Bengaluru etc., to the Raichur district are informed to stay in isolation provided by the District administration in community hall for 14 days to avoid spreading of covid-19 in the districts.

ii. During the harvesting of Paddy, Chilli, Cotton, Groundnut etc., All the farmers/workers are advised to maintain the distance during work and also maintain hygiene by frequent washing your hands after work to avoid spreading of covid-19.

5. **Seasonal Messages:**

- Land preparation : Deep plough helps conserve the rain water and expose the sub surface soil layer to sunlight
- After harvesting of the rabi/summer crops, Soil sampling should done to know the soil fertility status.
- Changing feeding habits in cows during summer - Slowly shift feeding schedule early in morning and / or late in the evening- the coolest times of the day will improve milk yield.
- Sprinklers over the feed alley combined with fans provide the best heat removal in commercial Dairy farms
- Summer ploughing in order to expose the pupae of the pests to sunlight and kill them.
- Cleaning of bunds to remove alternate hosts of pests and diseases
- Deep ploughing is extend at for saline & water logged a soil which helps in infiltration of water in to deeper layer along with the salts.
- Crop of major crops (paddy, cotton, pigeonpea) can be used for comport preparation instead of burning or using as field while mulching compost use of compost culture 2% raclephosphate and 0.02% area for enrichment.

6. Market Felicitation:

a. Chilli marketing facilities : bags (128.61 ton) – Raichur local cold storages
: 1150 bags (34.50 ton) - Byadagi market Haveri District
b. Vegetables marketing facility through FPO – 336 q sold to consumers of 8 villages
c. Fruits marketing facility through FPO – 84 q sold to consumers of 8 villages
d. Prawn marketing facility through FPO – 8 ton to wholesalers market at Mangalore – 2 tonne – Local market

7. Field Visits:

Date	Place (Village/Taluk)	Purpose
01.05.2020	Sulthanpur	Integrated farming under organics

01.05.2020	Kalli Lingasugur	FLD on watermelon
01.05.2020	Adavibhavi	Papaya plantation and ICM in groundnut
06.05.2020	Mandalgera	Onion FLD followup visit
06.05.2020	Mandalgera	Diagnostic field visit to Mango Orchard
18.05.2020	Raithanagar camp	CFLD on Blackgram
18.05.2020	PWD camp, Sindhanur	CFLD on Mustard
18.05.2020	Jakkaladinni	Farm pond

8. TV programme:

Sl. No.	Date	Topic	Organizer
01	21.04.2020	Inauguration of Agriwar room at KVK, Raichur	DD Chandan
02	25.04.2020	Activities of Agriwar room	One India you tube channel
03	29.04.2020	Programme on "Agriwar room" during **COVID 19** lockdown	TV-9 Kannada

9. Radio programme:

Sl. No.	Date	Topic	Organizer
01	29.04.2020	Live phone in "Agriwar room during **COVID 19** lockdown	AIR Raichur

10. Training / Webinars In Zoom for Farmers:

Date	Topic	Organizer
27.04.2020	Preparation of land, soil sampling and analysis	ISAP, New Delhi
16.05.2020	Importance of Soil & Water Conservation methods	KVK Raichur
21.05.2020	Pre Kharif Season activities	KVK Raichur

11. PUBLICATIONS:

a. Research papers:

Authors	Title of the research paper	Journal
Pralhad, **G S Yadahalli,** Nagraj , Sreedhar J N, Anupama c, Shreevani G **N** and M C Patil	Impact of KVK trainings on promotion of backyard poultry farming in Kalyan Karnataka	International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 9 Issue 06 (2020) NAAS Rating -**5.3**

b. Press notes:

1. Marketing facility provided to FPO, 09.04.2020, Prajavani.
2. Krishi samasyage spandhisalu Agriwar room, 21.04.2020, Prajavani
3. Agriwar roomge Raithara more, 29.04.2020, Vijayavani

12. Online Meetings/Workshops/seminars/conferences attended

Sl. No.	Title of the event	Through	Date	Convener
1.	Review meeting of KVK	Zoom	13.04.2020	ATARI, Bengaluru
2.	Annual Technical Meet of Agronomist	Google meet	24.04.2020 & 25.04.2020	HOD (Agronomy), UASR
3.	Crop plan meeting	Google meet	23.05.2020	ADR, MARS, UAS, Raichur
4.	Pre-action plan meeting	Zoom	27.04.2020 & 28.04.2020	ATARI, Bengaluru & Directorate of Extension, UASR
5.	Review meeting of AICRPDA	Zoom	20.05.2020	DDG, ICAR, New Delhi & CRIDA, Hyderbad
6.	XVII working group meeting of AICRPDA & VIII Annual Review workshop of AICRPDA-NICRA	Cisco	26.05.2020 to 28.05.2020	CRIDA, Hyderbad
7.	Workshop on water management	Zoom	11.05.2020	IIWM, Bhubaneshwar
8.	Annual Review Meet of 2019-20 and Action Plan of 2020-21	Zoom	01 & 02 June 2020	ATARI, Bengaluru

13. Any other Information (Not listed above):

- Attended Agriwar Room inauguration by Hon'ble Vice-Chancellor (21.04.2020)
- Attended Agriwar room duty (22.04.2020)and working as a team member of Agri War Room UASR
- Preparation of report for budget proposal for KVK activities(24.04.2020)
- Preparation of advisories for farmers both in Kannada & English (24.04.2020)
- Prepared KVK pre action plan report for 2020-21
- Prepared lockdown period work done report and submitted to DE office
- Prepared advisories for farmers for the month of May 2020
- Annual evaluation, Monthly progress and Newsletter preparation
- Action plan and Annual review meet report preparation for the year 2020-21
- Prepared farmers advisory messages to ATARI, Bangalore for the month of May 2020
- Prepared Annual evaluation report for year 2019-20.
- Newsletter preparation of KVK and information provided to university Newsletter.


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