ICAR-KRISHI VIGYAN KENDRA, RAICHUR

ANNUAL REPORT- 2019

(FOR THE PERIOD FROM 01 January 2019 TO 31 December 2019)

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

Please read the 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 need to be given by each KVK while preparing the report.
- Period of Report is from 01 January 2019 to 31 December 2019
- Action photographs with relevant captions covering various activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report.
- 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 applicableor 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, graphs and photos.

PART I - GENERALINFORMATION ABOUT THE KVK

1.1. Name and address of KVK withphone, 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 vcuasraichur10@rediffmail.com	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:December1994

1.5. Staff positionason31 May 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. Anupama, C.	Scientist	F	Home Science	M.H.Sc., Ph.D.	79800 - 211500	89900	07.04.2017	**Permanent**	GM
3	Scientist/SMS	Dr. Pralhad	Scientist	M	Animal Science	M.V.Sc.Ph.D	68900 - 205500	79900	13.09.2017	**Permanent**	Cat-1
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	**Vacant**	Scientist	-	Plant Pathology	**Vacant**	-	-	-	**Vacant**	-
7	Scientist/SMS	**Vacant**	Scientist	-	Soil Science	**Vacant**	-	-	-	**Vacant**	-
8	Programme Assistant (Lab Tech.)	**Vacant**	Programme Assistant	-	Lab Tech.	**Vacant**	-	-	-	**Vacant**	-
9	Programme Assistant (Computer)	Mr. DevarajNayak	Programme Assistant	M	Computer	MCA	9300-34800	53600	25-03-2017	**Permanent**	ST
10	Programme Assistant/ Farm Manager	Mr. M. C. Patil	Farm Manager	M	Farm Manager	B.Sc. (Agri)	9300-34800	55200	21-06-2017	**Permanent**	GM
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							
9								
10								

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero SLX	2011	7.43	161904	Good
Tractor (TAFE)	1999	3.37	-	Bad
Motor bike(Bajaj CT-100)	2005	0.40	57290	Good
Motor bike (Hero Honda Passion Plus)	2009	0.50	37414	Good
Motor bike (Hero Honda Splendor Plus)	2014	Purchased by ICRISAT	21437	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 2019

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
08.08.2018	**30**	**Dr. B.M. Chittapur,** Director of Extension suggested to refine the technology (Failure of Redgram + Pearl millet 1:2 intercropping system) in the farmers field information about.**(Action : Scientist-Agronomy)**	OFT is proposed during 2019-20	One OFT is proposed this year
		Dr. B.M. Chittapur, Director of Extension suggested to growbeetroot in demo plots, as it helps in doubling farmers' income. **(Action : Scientist - Horticulture)**	Yes	Planned for next Kharif season
		Dr. B.M. Chittapur, Director of Extension suggested to encourage local livestock breeds in dairy component among the horticulture farmers for encourage them to go for local livestock dairy breeds. **(Action : Scientist - Animal Scientist)**	Trainings on importance of Desi cows conductedin 12 villages of Krishi kalian abhiyana	-
		Dr. B.M. Chittapur, Director of Extension suggested to progressive farmers and innovative farmers should be involved in the training programmes as resources persons. **(Action :All Scientists)**	Progressive farmers and innovative farmers are involved in farmer to farmer training programme as well as RaithaSammelana	-
		Farmer suggested to conduct training programme on branding, grading, marketing linkage and technological support to the farmers produce/crops. **(Action : Scientist - Home Science)**	Three EDPs are conducted	-
		Shri. S.S. Ghanti, Director of SAMUHA, suggested to create awareness about the DSR technology in Devadurgataluk. **(Action: Scientist – Agronomy)**	FLD is planned for this year	-
		Dr. B.M. Chittapur, Director of Extension suggested to organise animal health camps in the selected villages of RAWE programme and KAPC adopted village. **(Action : Scientist - Animal Scientist)**	➢ In KAPC villageJakkaladinniAnimal Health Camps conducted on 28.01.2019 ➢ In RAWE village BhoomanagundaAnimal Health Camp was conducted on 18.09.2018& 29.09.2018	-
		Members suggested to organise training programmes on stall feeding method of sheep and goat rearing. **(Action : Scientist -**	Training programmes on stall feeding method of sheep and goat rearing were organized on	Dairy EnterpreneurshipSkill development training

		Animal Scientist)	09 to 11 February 2019 (On campus) and at Adakalgudda Village on 29 Jan 2019 (Off campus)	from 25th February 2019
		Dr. B.M. Chittapur, Director of Extension suggested to Establish demonstration unit on Medicinal plants **(Action : Scientist - Horticulture)**	Already initiated work on establishment of terrace garden and Micro Irrigation in the farm	-
		Sri GuthiJambunath, Hon'ble Vice Chancellor suggested that Scientific Advisory Committee meeting should be conducted every year **(Action : Senior Scientist & Head)**	Henceforth , SAC will be conducted every year	-
		Dr. Thimmappa, Principal Scientist, ATARI, suggested to adopt integrated farming system by the farmer for doubling the farmer income **(Action : All Scientists).**	IFS will be implemented in selected villages of Doubling the Farmer Income	-
		Dr. Thimmappa, Principal Scientist, ATARI, suggested to SUJALA-III trainings should be complete the earliest. **(Action : Senior Scientist & Head)**	SUJALA-III trainings conducted on 29 & 30 August 2018 & 01-03 September 2018	This year will be conducting 20 capacity building programmes
		Dr. B.M. Chittapur, Director of Extension suggested to collect current status of the district.**(Action : All Scientists)**	Current status of the district is collected from all the departments. Data is compiled	-
		Dr. G.S. Yadahalli presented the report of KVK activities, while presenting details of soil sample analysis, Director of Extension suggested tocheck pH values of the soil. **(Action : Scientist - Soil Science)**	No action	Soil Scientist post is vacant in KVK

PART II - DETAILS OF DISTRICT

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

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

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

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

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

2.3 Soil type/s

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

2.4. Area, Production and Productivity of major crops cultivated in the Raichur district 2018-19

Sl. No.	Crop	Irrigated			Rainfed / Dry			Total		
		KHARIF								
		Area (Ha.)	Prodn. (Tonnes)	Yield (kg/ha)	Area (Ha.)	Prodn. (Tonnes)	Yield (kg/ha)	Area (Ha.)	Prodn. (Tonnes)	Yield (kg/ha)
1.	Rice	137550	598343	4350	0	0	0	137550	598343	4350
2.	JowarHybrid	250	309	1235	87	99	1140	337	408	1188
3.	Maize	3000	16767	5589	500	2260	4520	3500	19027	5055
4.	Bajra	5095	7749	1521	40200	57808	1438	45295	65557	1480
5.	M.Millets	0	0	0	500	472	943	500	472	472
6.	Tur	2695	2684	996	45210	37479	829	47905	40163	913
7.	Greengram	170	740	4350	5345	1705	319	5515	2445	2335
8.	Cowpea	0	0	1235	345	102	295	345	102	765
9.	Mothbean (Madake)	0	0	5389	0	0	0	0	0	5389
10.	Groundnut	3567	4623	1296	1670	2084	1248	5237	6707	1272
11.	Sesamum	0	0	0	0	0	285	0	0	143
12.	Sunflower	2745	2781	1013	15120	13820	914	17865	16600	964
13.	Castor	0	0	0	1210	450	372	1210	450	186
14.	Cotton (in bales of 170 kg lint)	24880	93373	638	60210	216756	612	85090	310129	625
15.	Sugarcane Planted (tonnes/ha)	87	7830	90	115	8280	72	202	16110	7290
		Rabi								
1.	Jowar	14325	20513	1432	66055	90694	1373	80380	112733	1403
2.	Maize	1550	4805	3100	0	0	0	1550	2403	1550
3.	Wheat	400	0	0	695	365	525	1095	287	263
4.	Bengalgram	12328	12205	990	139400	136612	980	151728	149452	985
5.	Sunflower	3050	1830	600	12620	6815	540	15000	8550	570
6.	Safflower	0	0	0	3770	1602	425	1000	213	213
		Summer								
1.	Rice	29200	92097	3154	0	0	0	29200	92097	3154
2.	Jowar(Hybrid)	500	1157	2314	0	0	0	500	1157	2314
3.	Ragi	0	0	0	0	0	0	0	0	0
4.	Maize	100	361	3607	0	0	0	100	361	3607
5.	Groundnut	31725	29663	935	0	0	0	31725	29663	935
6.	Sesamum	0	0	0	0	0	0	0	0	0
7.	Sunflower	900	902	1002	0	0	0	900	902	1002

***Source: Department of Agriculture 2019-20**

Area production Productivity of Horticulture Crops (2019-20)

Crops	Area (Ha.)	Production (tons)	Productivity (yieldM.tons/ha.)
Mango	1072	8576	40
Banana	24	2376	454
Fig	111	443.2	16
Lime/Citrus	113	2938	115
Guava	113	2486	110
Sapota	50	550	55
Pomegranate	1071	12852	60
Papaya	656	52480	400
Water melon	100	4500	225
Muskmelon	184	2760	75
Other fruit crops	359	8257	115
Tomato	150	3000	20.0
Onion	115	807	7.0
Potato	0	0	0
Green chilli	232	2784	12.0
Leafy vegetables	545	5471	10.0
Beans	40	480	12.0
Brinjal	140	473	3.4
Bhendi	210	542	2.6
Capsicum	8	50	6.3

*(Source: Department of Horticulture, Raichur)

2.5. Weather data 2019-20

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)	
		Maximum	Minimum	RH I(%)	RH II (%)
January	10.0	30.0	16.3	69.5	41.3
February	0.0	31.0	20.4	62.8	42.2
March	0.0	38.1	23.9	53.8	23.5
April	13.5	40.8	26.2	50.0	19.0
May	10.4	41.4	27.6	52.8	19.0
June	67.0	37.3	25.2	75.1	37.8
July	79.6	34.6	22.7	81.8	47.3
August	46.0	32.8	23.7	83.8	48.8
September	312.2	31.7	23.1	89.1	59.1
October	130.4	30.6	22.8	91.3	64.0
November	0.0	31.1	20.8	85.9	50.2
December	0.0	29.9	19.0	83.2	47.0
Total	**659.1**				

*Source MARS, Raichur

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

2. 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	One	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	One	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	One	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	One	Groundnut	• Use of low yielding local varieties • Incidence of peanut bud necrosis disease through management of thrips • Incidence of Spodoptera and	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
						leafminer • Incidence of pod rot and leaf spots	
5.	Sirawar	Athanur	Jakkaladinni,	One	Sorghum	• Newly pest introduction on fall army warm	Integrated Pest Management
6.	Sindhanur	Sindhanur	Raithanagar camp	One	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	One	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	One	Onion	• Low yield and poor shelf life • Incidence of purple blotch • Incidence of thrips and Spodoptera	Introduction of New variety
9.	Raichur	Chandraband	Mandalagera	One	Cucumber	• Single harvest varieties • Low yield	Integrated Pest Management
10.	Devadurga	Devadurga	Adakalgudda	One	Watermelon	• Because of rainfed condition, no commercial horticultural crops are	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
						grown in the region • Lack of awareness of soil & water conservation practices	
11.	Raichur	Raichur	Devasugur	One	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	One	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	One	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 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

S. 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
14.	Crop Specific bio fertilizers for vegetables

PART III - TECHNICAL ACHIEVEMENTS (2019)

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
05	05	15	15	19	19	105	105

Training				Extension Programmes			
3				4			
Courses (No.)		Participants (No.)		Programmes(No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
115	135	3250	4050	1500	1940	70000	95000

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

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions									
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (kg)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products
													No. Kg
1.	Variety Introduction of New varieties	Chickpea	Low yield due to moisture stress and wilt incidence in present ruling variety	Assessment of Chickpea varieties for stress	-	01	01	-	13	180	-	-	- -
2.	ICM	Pigeon pea	• Due to rainfed condition farmers faces problem of in secured yield and return • Sole crop, low yield (3-4q/ac.) and return • PP + PM (1:2) Inter cropping system failed	Assessment of millets as intercrop in pigeon pea	-	01	01	-	12	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 fallows	-	01	01	-	10	9	-	-	- -
4.	Introduction of Hybrids	Bhendi	• Inferior quality of fruits • YVMV incidence (25-30%) and Low yield (12-15t/ha.)	Assessment of new Bhendi hybrids	-	01	01	-	08	6	-	-	- -
5.	Variety introduction	Fodder	Scarcity of fodder to livestock and Low milk yield	Assessment of new forage super Napier for its productivity and forage quality	-	2	3	1	-	-	15000	-	-
6.	Water Management	Paddy	➢ Excess water usage leads decline in yield ➢ Saline, alkaline	-	Water Management (AWD) in Paddy	2	2	-	6	-	-	-	- -

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (kg)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
			&water logging problems ➢ Increase in pest & disease population											
7.	Varietal introduction	Paddy	➢ Existing varieties are of long duration ➢ Need for short duration ➢ Existing variety is susceptible to BPH & Blast	-	Demonstration of New Paddy Variety GNV 10-89	2	2	-	6	125	-	-	2	2
8.	IPM	Jowar/ Maize	Invasive pest	-	Management of fall armyworm in Jowar/Maize	1	1	-	05	-	-	-	-	-
9.	IPM	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	-	2	250	-	-	3	11
10.	IPM	Pigeon pea	Indiscriminate use of chemical pesticides	-	Integrated Pest Management in Pigeonpea	1	1	-	07	0.5	-	-	-	-
11.	IPM	Chickpea	Indiscriminate use of chemical pesticides	-	Integrated Pest Management in Chickpea	1	1	-		1	-	-	-	-
12.	INM	Chickpea	• Flower drop • Synchronization of flowering is less	-	Demonstration of Chickpea Special	1	1	-	12	-	-	-	3	5.5
13.	Varietal introduction	Cotton	➢ Lack of awareness of Non Bt. Varieties ➢ Variation in soil	-	Demonstration of Cotton variety BGDS-	1	1	-	9	15	-	-	2	20

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (kg)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
			fertility		1063									
14.	INM	Cotton	➢ Variation in soil fertility across farmers field ➢ Imbalanced and excess use of NPK fertilizers (70%) ➢ Lack of awareness on soil test based nutrient management practice ➢ Extent of leaf reddening in cotton 30 -40 %	-	Demonstration of Soil test based nutrient management in Cotton	1	1	-	9	15	-	-	2	20
15.	IPM	Cotton	Outbreak of pink bollworm in Bt. Cotton (60-80% damage)	-	Management of Pink Bollworm in Bt Cotton	1	1	-	13	-	-	-	-	-
16.	Varietal introduction	Onion	➢ Low yield due to use of local variety ➢ Pest and disease incidence	-	Introduction of high yielding onion variety Bhima Dark Red	1	1	-	4	10	-	-	-	-
17.	IPM	Chilli	➢ Indiscriminate use of chemical pesticides ➢ Higher incidence Thrips and mites, spodoptera damage ➢ Low yield	-	Integrated Pest Management in Chilli (Murda complex &Spodoptera)	1	1	-	9	05	-	-	-	-
18.	ICM	Tomato	➢ Lack of knowledge of biofertilizers ➢ Indiscriminate use of inorganic fertilizers ➢ Poor management of pest and diseases	-	ICM in Tomato	1	1	-	4	-	-	-	1	25
19.	IPM	Cucumber	➢ High fruit fly incidence and high	-	Demonstration of Plant volatile	1	1	-	5	-	-	-	-	-

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (kg)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
			cost for management		basedattractant to control fruit flies inCucurbits(Cucumber or Ridgegourd)									
20.	INM	Fig	➢ Rust disease, Nutrient management	-	Management of nutrient and rust of fig	1	1	-	2	-	-	-	3	15
21.	INM	Watermelon	➢ Poor vine growth ➢ Flower and fruit drop due to inferior pollen tube growth ➢ Unequal fruit enlargement	-	Effect of Boron foliar spray in Watermelon for higher yield and quality	1	1	Inputs distributed						
22.	Nutritional management	Sheep and Goat	Non availability of diversified fodder crops to meet requirements of balanced forage feeding. Calcium deficiency in lactating animals	-	Establishing fodder crops in Stall fed sheep and goat rearing	3	2	-	7	26	-	-	-	-
23.	Nutritional management	Small ruminants	Calcium deficiency in lactating animals	-	Use of special feed pellets for calcium supplementation in lactating Goats	1	2	-	5	-	-	-	-	-

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	1	-	2	13
2.	Assessment of millets as intercrops in Pigeonpea	UAS R/D	Pigeonpea	1	-	2	12
3.	Assessment of Mustard varieties as alternate crop in paddy fallows	DRMR, Bharathpur	Mustard	1	-	2	10
4.	Assessment of new Bhendi hybrids in Raichur District	IIHR Bengaluru	Bhendi	1	-	2	8
5.	Assessment of new forage super Naiper for its productivity and forage quality	IGFRI Jansi	Fodder	1	-	5	2
6.	Water Management (AWD) in Paddy	UAS, Raichur	Paddy	-	1	4	6
7.	Demonstration of New Paddy Variety GNV 10-89	UAS, Raichur	Paddy	-	1	4	6
8.	Management of fall armyworm in Jowar/Maize	UAS, Raichur	Jowar	-	1	2	5
9.	Integrated Crop Management in Groundnut	UAS, Raichur	Groundnut	-	1	2	2
10.	Integrated Pest Management in Pigeonpea	UAS, Raichur	Pigeonpea	-	1	2	7
11.	Integrated Pest Management in Chickpea	UAS, Raichur	Chickpea	-	1	2	5
12.	Demonstration of Chickpea Special	UAS, Raichur	Chickpea	-	1	2	12
13.	Management of Pink Bollworm in Bt-Cotton	UAS, Raichur	Bt- Cotton	-	1	2	13
14.	Demonstration of Cotton variety BGDS-1063	UAS, Raichur	Cotton	-	1	2	9
15.	Demonstration of Soil test based nutrient management in Cotton	UAS, Raichur	Cotton	-	1	2	9
16.	Introduction of high yielding onion variety Bhima Dark Red	DOGR Pune	Onion	-	1	2	4
17.	Integrated Pest Management in Chilli (Murda complex &Spodoptera)	UAS, Raichur	Chilli	-	1	2	9
18.	ICM in Tomato	IIHR, Bengaluru	Tomato	-	1	2	4
19.	Demonstration of Plant volatile based attractant to control fruit flies in Cucurbits (Cucumber or Ridgegourd)	NBAIR	Cucurbits	-	1	2	5
20.	Management of nutrient and rust of fig	UHS, Bagalkot	Fig	-	1	2	2
21.	Effect of Boron foliar spray in Watermelon for higher yield and quality	IIHR Benagaluru	Watermelon	-	1	2	4
22.	Establishing fodder crops in Stall fed sheep and goat rearing	IGFRI, Dharwad	Sheep and Goat	-	1	5	7
23.	Use of special feed pellets for calcium supplementation in lactating Goats	Bombay Veterinary College	Small ruminants	-	1	3	5

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**	**-**	**-**	**-**	**-**	**-**	**-**	**35**	**5**	**27**	**3**	25	-	03	-
3	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**40**	**2**	**28**	**0**	13	02	04	01
2	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**45**	**2**	**13**	**0**	29	-	06	-
2	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**38**	**3**	**23**	**2**	19	-	03	-
2	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**94**	**8**	**46**	**3**	36	01	04	01
-	**-**	**-**	**-**	**5**	**-**	**-**	**-**	**40**	**5**	**15**	**3**	27	-	08	-
-	**-**	**-**	**-**	**4**	**-**	**1**	**-**	**55**	**-**	**15**	**-**	12	-	08	-
-	**-**	**-**	**-**	**3**	**-**	**2**	**-**	**45**	**-**	**20**	**-**	12	-	05	01
-	**-**	**-**	**-**	**4**	**-**	**1**	**-**	**50**	**-**	**10**	**-**	25	-	03	-
-	**-**	**-**	**-**	**5**	**-**	**-**	**-**	**35**	**5**	**27**	**3**	13	02	04	01
-	**-**	**-**	**-**	**5**	**-**	**-**	**-**	**40**	**2**	**28**	**0**	32	04	03	02
-	**-**	**-**	**-**	**3**	**1**	**1**	**-**	**45**	**2**	**13**	**0**	28	04	02	01
-	**-**	**-**	**-**	**3**	**-**	**2**	**-**	**38**	**3**	**23**	**2**	07	-	05	-
-	**-**	**-**	**-**	**3**	**1**	**1**	**-**	**35**	**5**	**27**	**3**	08	-	03	-
-	**-**	**-**	**-**	**2**	**1**	**2**	**-**	**40**	**5**	**15**	**3**	13	02	04	02
-	**-**	**-**	**-**	**4**	**-**	**1**	**-**	**55**	**-**	**15**	**-**	09	-	06	-
-	**-**	**-**	**-**	**5**	**-**		**-**	**45**		**20**	**-**	08	-	03	-
-	**-**	**-**	**-**	**4**	**-**	**1**	**-**	**50**	**-**	**10**	**-**	12	01	04	01
-	**-**	**-**	**-**	**3**	**-**	**2**	**-**	**35**	**5**	**27**	**3**	12	-	08	-
-	**-**	**-**	**-**	**4**	**-**	**1**	**-**	**40**	**5**	**15**	**3**	12	-	05	01
-	**-**	**-**	**-**	**5**	**-**	**-**	**-**	**55**	**-**	**15**	**-**	25	-	03	-
-	**-**	**-**	**-**	**5**	**-**	**-**	**-**		**-**	**-**	**-**	13	02	04	01
-	**-**	**-**	**-**	**5**	**1**	**4**	**-**	**94**	**8**	**46**	**3**	29	-	06	-

PART IV - On Farm Trial(2019)

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Varietal Evaluation	-	-	2	-	1	-	-	-	-	3
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technology	-	1	-	-	-	-	-	-	-	1
Farm Machineries	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	-	1	2	-	1	-	-	-	-	4

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	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

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

Thematic areas	Cattle/Sheep	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	-	-	-	-	-	-
TOTAL	1	-	-	-	-	-

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

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	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management					
Varietal Evaluation	Pigeon pea	Assessment of millets as intercrops in Pigeonpea	3	3	1.5
	Chickpea	Assessment of Chickpea varieties for stress	3	3	1.5
	Bhendi	Assessment of new Bhendi hybrids in Raichur District	3	3	1.5
Integrated Pest Management	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
Weed Management	-	-	-	-	-
Resource Conservation Technology	Mustard	Assessment of Mustard varieties as alternate crop in paddy fallows	3	3	1.5
Farm Machineries	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
Value addition	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
Storage Technique	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
Total	-	-	12	12	6.0

4.B.2. Technologies Refined under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	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 and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
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	3	3
Small scale income generating enterprises	-	-	-	-
		Total	3	3

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

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

4.C1.Results of Technologies Assessed- Results awaited

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	COC	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 yield due to moisture stress and wilt incidence in present ruling variety	Assessment of Chickpea varieties for stress	03	**TO1 :** JG-11	Farmers/UAS, R/D	15.51	25.13	59.39	23508	58330	34822	2.48
					TO2: NBeG-49	ANGRAU, RARS, Nandyal, AP	17.31	24.93	57.27	24048	65073	41025	2.71
					TO3: GBM-2	UAS, Raichur	14.10	24.11	56.41	23508	53029	29521	2.26
					TO4: NBeG-47	ANGRAU, RARS, Nandyal, AP	17.79	16.35	37.89	20408	66903	42855	2.79
Pigeon pea	Rainfed	• Due to rainfed condition farmers faces problem of in secured yield and return • Sole crop, low yield (3-4q/ac.) and return • PP + PM (1:2) Inter cropping system failed	Assessment of millets as intercrops in Pigeonpea	03	**TO1 :**Redgram sole	Farmers/ UAS, R/D	11.9	32.13	155.06	25849	48131	22282	1.87
					TO2: PP + PM (1:1)	UAS R/D	13.98	25.83	137.76	27943	60115	32172	2.16
					TO3: PP + PM (1:2)	UAS R/D	11.63	28.48	151.63	27943	50008	22065	1.80
					TO4: PP + FM (1:2)	UAS R/D	14.85	0.00	0.00	27265	63845	36580	2.35
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 fallows	03	**TO2:** PM-25	IARI	9.61	32.13	155.06	8976	42299	33323	4.71
					TO3: PM-30	IARI	8.02	25.83	137.76	8976	35273	26297	3.93
					TO4: NRCHB-101	DRMR, Bharathpur	9.73	28.48	151.63	8976	42827	33851	4.77
Bhendi	Irrigated	• Inferior quality of fruits • YVMV incidence (25-30%) and	Assessment of new Bhendi hybrids in Raichur	03	**TO1:** Farmers practice (Shakti)	-		Since the seeds received from the respective institutions is late, This OFT will be conducted during 2020-21 without any additional finance					
					TO2: CO BH4	TNAU Tamilnadu							

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	COC	Gross Return Rs./unit	Net Return Rs/unit	BC Ratio (Gross income/ Gross Cost)
		Low yield (12-15t/ha.)	District		**TO3:**Arka Nikita	IIHR Bengaluru							
Fodder	Irrigated	• Scarcity of fodder to livestock and non availability of fodder seeds	Assessment of new forage super Naiper for its productivity and forage quality	03	**TO1:** Farmers Practice (NB-21)	UAS, Dharwad	8	7	25 tons/ I cutting	35000	75000	40000	2.14
					TO2: Hybrid Napier Co-3	TNAU, Coimabator	7.5	9	35 tons/ I cutting	40000	105000	65000	2.62
					TO3: Super Napier	IGFRI Jansi	8.5	12	50 tons/ I cutting	50000	150000	100000	3.00

4.C2. Details of Successfully completed / concluded technology assessment (support with necessary summary of data and photographs)

Sl. No	Title of Technology Assessed	Performance of the Technology on specific indicators	Specific Feedback from farmers	Specific Feedback from Extension personnel and other stakeholders	Feedback to Research System based on results and feedback received
1	Assessment of Chickpea varieties for stress	NBEG-47 & 49 gives higher yield	Suitable for machine harvesting	Can be recommended for black soil of Raichur region	Chickpea var. NBeG-47 and 49 for its adoptability through multilocation trial
2	Assessment of millets as intercrops in Pigeonpea	As bonus crop, additional income with 1:1 row and 1:2 Bajra and Foxtail millet, respectively	Obtained additional income, weed supress and management of redgram pest	Advantage of additional income due to changing climate	Revalidation of row proportion in pigeonpea + Pearl millet (1:2) I/C System
3	Assessment of Mustard varieties as alternate crop in paddy fallows	Getting 3-4 q mustard yield with residual moisture instead of fallow	Paddy – Paddy CS produced lower yield due to non availability of canal irrigation	Crop rotation soil testing Savings of water	Screening of new varieties for its adoptability in paddy fallows
4	Assessment of new Bhendi hybrids in Raichur District	-	-	-	-
5	Assessment of new forage super Naiper for its productivity and forage quality	High yield and potential in irrigated area	High Yield Soft palatable	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	Research is needed to elucidate the suitability of super Napier for silage making

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
-	-	-		-	-	-						
					-							
					-							

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

PART V –FRONTLINE DEMONSTRATIONS (2019)

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	Others		SC/ST		Small/ Marginal	Others
											M	F	M	F		
1.	Oilseeds	Irrigated	Rabi	Groundnut	G-2-52	-	ICM	Integrated Crop Management in Groundnut	2	2	5	-	-	-	2/3	-
2.	Pulses	Irrigated	Kharif	Pigeon pea	TS-3R	-	IPM	Integrated Pest Management in Pigeonpea	2	2	4	-	1	-	4/1	-
3.		Irrigated	Rabi	Chickpea	JG-11	-	IPM	Integrated Pest Management in Chickpea	2	2	3	-	2	-	3/2	-
4.		Irrigated	Rabi	Chickpea	JG-11	-	ICM	Demonstration of Chickpea Special	2	2	4	-	1	-	3/2	-
5.	Cereals	Irrigated	Rabi	Paddy	BPT-5204		Water management	Water Management (AWD) in Paddy	2	2	5	-	-	-	1/4	-
6.		Irrigated	Kharif	Paddy	GNV-10-89		Varietal introduction	Demonstration of New Paddy Variety GNV 10-89	2	2	5	-	-	-	1/4	-
7.	Millets	Irrigated	Rabi	Jowar / maize	-	-	IPM	Management of fall armyworm in Jowar/Maize	2	2	3	1	1	-	3/2	-
8.	Vegetables	Irrigated	Rabi	Onion	Bhima Dark red	-	Varietal introduction	Introduction of high yielding onion variety Bhima Dark Red	2	2	3	-	2	-	2/3	-
9.		Irrigated	Kharif	Chilli	-		IPM	Integrated Pest Management in Chilli (Murda complex &Spodoptera)	2	2	3	1	1	-	2/3	-
10.		Irrigated	Rabi	Tomato	KSP-1278	-	ICM	ICM in Tomato	2	2	2	1	2	-	3/2	-
11.		Irrigated	Rabi/Su	Cucumbe	-	-	IPM	Demonstration of Plant	2	2	4	-	1	-	3/2	-

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)				Farmers (No.)	
									Proposed	Actual	Others		SC/ST		Small/ Marginal	Others
											M	F	M	F		
			mmer	r				volatile basedattractant to control fruit flies inCucurbits(Cucumber or Ridge gourd)								
12.	Flowers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13.	Ornamental	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14.	Fruit	Irrigated	Kharif/ Summer	Fig	-	-	INP& IPM	Management of nutrient and rust of fig	2	2	**4**	-	**1**	-	**2/3**	-
15.		Irrigated	Rabi/Summer	Watermelon	Watermelon: NS 295	-	INM	Effect of Boron foliar spray in Watermelon for higher yield and quality	2	2	**3**	-	**2**	-	**1/4**	-
16.	Spices and condiments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17.	Commercial	Irrigated	Kharif	Cotton	-	-	IPM	Management of Pink Bollworm in Bt-Cotton	2	2	**4**	-	**1**	-	**1/4**	-
18.		Irrigated	Kharif	Cotton	BGDS-1063	-	Varietal introduction	Demonstration of Cotton variety BGDS-1063	2	2	**5**	-	-	-	**2/3**	-
19.		Irrigated	Kharif	Cotton	-	-	INM	Demonstration of Soil test based nutrientmanagement in Cotton	2	2	**5**	-	-	-	**2/3**	-
20.	Medicinal and aromatic	-	-	-	-	-	-	-	-	-	-	-	-	-		-
21.	Sheep and goat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.	Button mushroom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23.	Vermicompost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.	Sericulture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.	Apiculture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26.	Implements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Status of soil			Previous crop grown
									N	P	K	
1.	Oilseeds	Irrigated	Rabi	Groundnut	G-2-52	-	ICM	Integrated Crop Management in Groundnut	-	-	-	-
2.	Pulses	Irrigated	Kharif	Pigeon pea	TS-3R	-	IPM	Integrated Pest Management in Pigeonpea	-	-	-	-
3.		Irrigated	Rabi	Chickpea	JG-11	-	IPM	Integrated Pest Management in Chickpea	-	-	-	-
4.		Irrigated	Rabi	Chickpea	JG-11	-	ICM	Demonstration of Chickpea Special	-	-	-	-
5.	Cereals	Irrigated	Rabi	Paddy	BPT-5204		Water management	Water Management (AWD) in Paddy	187	67.61	319	Paddy
6.		Irrigated	Kharif	Paddy	GNV-10-89		Varietal introduction	Demonstration of New Paddy Variety GNV 10-89	186	65.08	315	Paddy
7.	Millets	Irrigated	Rabi	Jowar / imaize	-	-	IPM	Management of fall armyworm in Jowar/Maize	-	-	-	-
8.	Vegetables	Irrigated	Rabi	Onion	Bhima Dark red	-	Varietal introduction	Introduction of high yielding onion variety Bhima Dark Red	-	-	-	-
9.		Irrigated	Kharif	Chilli	-		IPM	Integrated Pest Management in Chilli (Murda complex &Spodoptera)	-	-	-	-
10.		Irrigated	Rabi	Tomato	KSP-1278	-	ICM	ICM in Tomato	-	-	-	-
11.		Irrigated	Rabi/Summer	Cucumber	-	-	IPM	Demonstration of Plant volatile basedattractant to control fruit flies inCucurbits(Cucumber or Ridgegourd)	-	-	-	-
12.	Fruit	Irrigated	Kharif/ Summer	Fig	-	-	INP & IPM	Management of nutrient and rust of fig	-	-	-	-
13.		Irrigated	Rabi/Summer	Watermelon	Watermelon: NS 295	-	INM	Effect of Boron foliar spray in Watermelon for higher yield and quality	-	-	-	-
14.	Commercial	Irrigated	Kharif	Cotton	-	-	-	Management of Pink Bollworm in Bt-Cotton	-	-	-	-
15.		Irrigated	Kharif	Cotton	BGDS-1063	-	IPM	Demonstration of Cotton variety BGDS-1063	244	67.16	366	Vegetable
16.		Irrigated	Kharif	Cotton	-	-	Varietal introduction	Demonstration of Soil test based nutrientmanagement in Cotton	147	43.70	163	Cotton
17.	Fodder	Irrigated	Kharif	Fodder	-	-	INM	Establishing fodder crops in Stall fed sheep and goat rearing	-	-	-	-

5.B. Results of FLDs

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)				Economics of Check (Rs./ha)			
							Demo			Check		COC	GR	NR	BCR	COC	GR	NR	BCR
							H	L	A										
Oilseeds	Integrated Crop Management in Groundnut	G-2-52	-	Irrigated	5	2.0	31.29	21.17	24.9	21.5	16.4	4714	112164	65016	2.38	45603	96866	51262	2.12
Pulses	Integrated Pest Management in Pigeonpea	TS-3R	-	Rainfed	5	2.0	13.39	11.25	12.55	11.75	6.83	20026	53982	33956	2.7	24965	50516	25551	2.03
	Demonstration of Chickpea Special	JG-11	-	Rainfed	5	2.0	21.34	18.66	19.8	17.1	16.2	47116	95107	47991	2.03	46316	81946	35629	1.78
	Integrated Pest Management in Chickpea	JG-11	-	Rainfed	5	2.0	19.34	17.45	18.69	17.36	7.64	25020	70267	45246	2.80	31250	65281	34031	2.09
Cereals	Water Management (AWD) in Paddy	BPT-5204		Irrigated	5	2.0	62.51	55.78	59.48	56.38	5.52	55802	104094	48292	1.87	58532	98662	40130	1.69
	Demonstration of New Paddy Variety GNV 10-89	GNV -10-89		Irrigated	5	2.0	69.24	61.28	66.2	58.5	13.3	57166	115917	58751	2.03	56795	102302	45507	1.8
	Management of fall armyworm in Jowar/Maize	-	-	Rainfed	5	2.0	40.25	35.25	38.0	35	10.0	25100	84700	59600	3.37	29750	77000	47250	2.58
Millets																			
Vegetables	Introduction of high yielding onion variety Bhima Dark Red	Bhima Dark red	-	Irrigated	5	2.0				Ongoing Nursery/Seedling stage									
Vegetables	Integrated Pest Management in Chilli (Murda complex &Spodoptera)	-	-	Irrigated	5	2.0	52.1	45.02	49.2	46.24	6.4	161136	619970	458834	3.86	183756	582598	398842	3.17
Vegetables	ICM in Tomato	KSP-1278	-	Irrigated	5	2.0			56.25	51.8	8.49	102000	450000	348000	4.41	1,16,250	4,14,400	2,98,150	3.56
Vegetables	Demonstration of Plant volatile basedattractant to control fruit flies in Cucurbits(Cucumber or Ridgegourd)	-	-	Irrigated	5	2.0	12.55	10.55	11.94	11.2	6.61	33425	101490	68065	3.03	39375	95200	55825	2.41
Flowers		-	-																
Ornamental	-																		
Fruit	Management of nutrient and rust of fig	-	-	Irrigated	5	2.0			41.12	36.25	13.43	49450	222048	172598	4.49	55400	195750	140350	3.53
	Effect of Boron foliar spray in Watermelon for	Watermelon: NS 295	-	Irrigated	5	2.0			36.0	34.5	5.0	80000	205608	125608	1.57	76000	186300	110300	1.45

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)				Economics of Check (Rs./ha)			
							Demo			Check		COC	GR	NR	BCR	COC	GR	NR	BCR
							H	L	A										
	higher yield and quality																		
Spices and condiments	-				-														
Commercial																			
Fibre crops like cotton	Demonstration of Cotton variety BGDS-1063	BGDS-1063	-	Irrigated	5	2.0	30.82	24.55	27.10	26.11	3.79	48887	146340	97453	2.99	51587	141016	89429	2.73
	Demonstration of Soil test based nutrientmanagement in Cotton	-	-	Irrigated	5	2.0	30.54	24.68	27.65	24.44	13.23	52789	149299	96511	2.83	58956	131954	72999	2.24
	Management of Pink Bollworm in Bt-Cotton	-	-	Irrigated	5	2.0	42.45	38.95	41.12	36.26	13.42	66300	222048	155748	3.34	81250	195804	114554	2.40
Medicinal and aromatic																			
Fodder																			
Plantation																			
Fibre																			
Others (pl.specify)																			

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

** BCR= GROSS RETURN/GROSS COST

H – Highest Yield, L – Lowest Yield A – Average Yield

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check**
Integrated Crop Management in Groundnut		
No of pods /plant	18	11
100 grain wt. (gm)	38.33	34.53
Fodder Yield t/ha	26.51	13.67
Tikka Disease incidence at final stage	11.67	62.55
No. of spodoptera moths /trap/week	81.0	-
Integrated Pest Management in Pigeonpea		
Pod borer/plant	0.6	1.4
Maruca/Plant (live webs /plant)	1.7	2.3
Damaged pods/plant (% damage)	1.5	4.4
Number of moths (Helicoverpa)/trap/week	34	-
Integrated Pest Management in Chickpea		
Damaged pods/plant (% pod damage)	0.9	3.6
Number of moths(Helicoverpa)/trap/week	33	-
Demonstration of Chickpea Special		
Plant height	81.60	77.80
No. of pods/Plant	25.40	22.00
Days to maturity	87	81
Water Management (AWD) in Paddy		
Plant height (cm)	89.0	79.9
No. of tillers/plants	24.4	21.8
BPH count (nos./hill)	7.56	11.53
Water req. (mm)	1006	1316
WUE (kg/ha mm)	5.91	4.28
Demonstration of New Paddy Variety GNV 10-89		
Pl. height	110.6	92.9
No. eff tillers/Plant	23.6	19.4
Management of fall armyworm in Jowar/Maize		
Larve/ plant	1.1	4.4
% leaf damage	3.2	16
% cob damage	0.7	3.2
Introduction of high yielding onion variety Bhima Dark Red		
Ongoing Nursery/Seedling stage		
Integrated Pest Management in Chilli (Murda complex &Spodoptera)		
Affected leaves per plant (murda complex)/% damage	4.5	15.6
Number of moths(Spodoptera)/trap/week	79	-
ICM in Tomato		
Seedling wilt (%)	1.75	9.55
Leaf curl (%)	11.33	18.67
Powdery mildew (%)	9.35	13.97
Demonstration of Plant volatile based attractant to control fruit flies in Cucurbits(Cucumber or Ridgegourd)		
Number of fruitflies trapped	78.5	-
% malformed fruits	2.01	8.11
Management of nutrient and rust of fig		
Per cent disease incidence Rust incidence	20.75	35.67
Effect of Boron foliar spray in Watermelon for higher yield and quality		
-	-	-
Management of Pink Bollworm in Bt-Cotton		
No. of rosette flowers / plant	0.8	5.7
No. of larvae present in 20 unopened bolls	1.3	11.4
No. of bad opened bolls per plant	2.6	16.8
Demonstration of Cotton variety BGDS-1063		
Plant height	141.60	137.80
No. of bolls/Plant	45.00	42.0
PBW incidence (No. of larvae present in 20 unopened bolls)	11.80	12.30
Demonstration of Soil test based nutrient management in Cotton		
Plant height	124.5	119.4
No. of bolls/Plant	46.8	38.0

5.B.2. 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				% Increase	*Economics of demonstration (Rs./unit)				*Economics of check (Rs./unit)			
						Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
						H	L	A										
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rabbitry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pigerry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat	Establishing fodder crops in Stall fed sheep and goat rearing	Co FS 29 Yield	05	05	Fodder yield (Tones/ acr.)	108	100	108.00	75.00	139 %	37500	156000	118500	5.57	65000	225000	180000	3.46
		Hedge Lucerne						89.00	-		9350	89000	79650					
		Styloxanthus						78	-		9800	78000	68200					
Goat	Use of special feed pellets for calcium supplementation in lactating Goats	Local non-descriptive	10	10	Body weight (Kg/ month)	Details		Demonstration	Check		-	-	-	-	-	-	-	-
						Body weight gain in lambs	0 day	2.5	2.6									
							30 day	4.8	4.1									
							60 day	6.5	5.1									
						Mortality %	0 day	2.5	2.6									
Duckery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	**Demo**	**Check if any**
Establishing fodder crops in Stall fed sheep and goat rearing		
Body weight gain	3.1 kg/month	2.0 kg/month
Use of special feed pellets for calcium supplementation in lactating Goats		
Mortality	2.0 %	4.0%

5.B.3. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m^2)	Name of the parameter with unit	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./unit)			*Economics of check (Rs./unit)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mussels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ornamental fishes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

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

5.B.4. 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	DEMONSTRATION OF NUTRI-FARMS FOR YEAR ROUND NUTRITION SECURITY AMONG FARM FAMILIES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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

RESULTS:

- **Around 30-40% of vitamins, 5-10 % of carbohydrate and protein requirement, 40-45% of mineral requirement was supplemented through nutrition garden – 24 hours diet recall method**
- **Round the year easily available vegetables added to food diversity and taste (68%) opined that weekly twice to four times veg included in the diet.**
- **Beneficiary opined that 98 % Tasty fresh vegetables**
- **Chemical free vegetables – All respondent**
- **Seeds were collected & regrown – 56% (specially gourds and green leafy vegetables)**
- **Around 6-7 months vegetables were grown & consumed by the beneficiaries – 72 %**

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.B.5. 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 laboursaved (viz., reduction in drudgery, time etc.)

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	13	611	-
2	Farmers Training	Ent: 22	682	-
3	Media coverage	Ent: 25	-	-
4	Training for extension functionaries	1	92	-
5	Others (Please specify)			
	KissanMela	1	583	-
	KissanGhosti	1	583	-
	Technology week	2	217	-
	Farmers Seminar	1	81	-
	Exposure visit	2	40	-

PART VI – DEMONSTRATIONS ON CROP HYBRIDS(2019)

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
					Demo			Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
					H	L	A								
Cereals															
Bajra															
Maize															
Sorghum															
Wheat															
Total															
Oilseeds															
Castor															
Mustard															
Safflower															
Sesame															
Sunflower															
Total															
Pulses															
Greengram															
Blackgram															
Bengalgram															
Redgram															
Total															
Vegetable crops															
Bottle gourd															
Capsicum															
Total															
Cucumber															
Tomato															
Brinjal															
Okra															
Onion															
Potato															
Field bean															
Total															
Commercial crops															
Sugarcane															
Coconut															
Total															
Fodder crops															
Maize (Fodder)															
Sorghum (Fodder)															
Total															

H-High L-Low, A-Average

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

PART VII.TRAINING(2019)

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	1	35	0	35	10	0	10	45	0	45
Resource Conservation Technologies	3	40	8	48	32	6	38	72	14	86
Cropping Systems										
Crop Diversification	4	121	35	156	32	13	45	153	48	201
Integrated Farming	2	144	0	144	42	0	42	186	0	186
Micro Irrigation/Irrigation	3	65	6	71	15	4	19	80	10	90
Seed production	1	20		20	5		5	35		35
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	6	151	18	169	68	9	77	219	27	246
Soil and Water Conservation	10	207	39	246	92	13	105	299	52	351
Integrated Nutrient Management	3	65		65	10		10	75		75
Production of organic inputs	3	98	4	102	33	0	33	131	4	135
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising	1	30		30	5		5	35		35
Exotic vegetables										
Export potential vegetables										
Grading and standardization	2	45		45	5		5	50		50
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning	1	30		30	10		10	40		40
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	1	20		20	8		8	28		28
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	2	55		55	10		10	65		65
Integrated water management	1	74	06	80	03	02	5	77	8	85
Integrated nutrient management	2	65		65	5		5	70		70
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	1	30		30				30		30
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing	1	48	0	48	25	0	25	73	0	73
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	04	210	26	**236**	66	10	**76**	276	36	312
Poultry Management	1	20	15	35	40	4	44	60	19	79
Piggery Management										
Rabbit Management										
Animal Nutrition Management	1	20	15	35	40	4	44	60	19	79
Animal Disease Management										
Feed and Fodder technology	6	78	12	90	53	7	60	131	19	150
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										

Household food security by kitchen gardening and nutrition gardening	3	35	21	56	20	17	37	55	38	93
Design and development of low/minimum cost diet	2	49	26	75	30	25	55	79	51	130
Designing and development for high nutrient efficiency diet	2	49	26	75	30	25	55	79	51	130
Minimization of nutrient loss in processing	1		20	20		5			25	25
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	10	25	35		10	10	10	35	45
Women empowerment	2	14	28	42	0	15	15	14	43	57
Location specific drudgery production										
Rural Crafts										
Women and child care	2	0	46	46	0	30	30	0	76	76
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance	2	51	0	51	45	0	45	96	0	96
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection	2	45		45	5		5	50		50
Integrated Pest Management	03	36	9	**45**	52	35	**87**	88	44	**132**
Integrated Disease Management	2	60		60	25		25	85		85
Bio-control of pests and diseases	2	55		55	20		20	75		75
Production of bio control agents and bio pesticides	1	40		40				40		40
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										
Prawn culture of fish and prawn	**1**	**25**		**25**	**10**		**10**	**35**		**35**
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										

Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	**01**	30		30	12		12	42		42
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	**02**	38	27	**65**	48	23	**71**	86	50	**136**
Others (pl.specify)										
CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics	**01**	40		40	15		15	55		55
Formation and Management of SHGs										
Mobilization of social capital	**01**	40		40	15		15	55		55
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**64**	**1510**	**248**	**1758**	**594**	**174**	**763**	**2114**	**422**	**2536**

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	3	55	5	60				55	5	60
Weed Management	1	30		30				30		30
Resource Conservation Technologies										
Cropping Systems	2	50		50				2	50	50
Crop Diversification	1	20	10	30				20	10	30
Integrated Farming	1	20	10	30				20	10	30
Micro Irrigation/Irrigation	1	25		25				25		25
Seed production	2	45	5	50				45	5	50
Nursery management										
Integrated Crop Management	2	45	10	55				45	10	55
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	1	35		35				35		35
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	1	20		20				20		20
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	1	40		40				40		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										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management	3	60	10	70				60	10	70
Production and use of organic inputs										
Management of Problematic soils	2	40	5	45				40	5	45
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	17	168	21	**189**	298	14	**312**	466	35	**501**
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Household food security by kitchen gardening and nutrition gardening	2	20	40	60				20	40	60
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking	1	10	30	40				10	30	40
Gender mainstreaming through SHGs	1	10	30	40				10	30	40
Storage loss minimization techniques										
Value addition	1	35	10	45				35	10	45
Women empowerment										
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
Agril. Engineering										
Farm machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	6	55	43	98	61	52	113	116	95	211
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl.specify)										
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	**3**	28	20	**48**	23	22	**45**	51	42	**93**
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	**52**	**811**	**249**	**1060**	**382**	**88**	**470**	**1145**	**387**	**1530**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production	01	15		15	05		05	20		20
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping	01	25	10	35	18	4	22	43	14	57
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	**01**	27	3	**30**	29	6	**35**	56	09	**65**
Sheep and goat rearing	**02**	22	7	**29**	39	9	**48**	61	16	**77**
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	**5**	**89**	**20**	**109**	**91**	**19**	**110**	**180**	**39**	**219**

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										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying	02	28	4	**32**	28	12	**40**	56	16	72
Sheep and goat rearing	06	87	19	**106**	144	12	**156**	231	31	**262**
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)										
Integrated Pest Management	**02**	56	12	**68**	49	9	**49**	105	12	**117**
TOTAL	**10**	**171**	**35**	**206**	**221**	**33**	**245**	**392**	**59**	**451**

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	01	18	9	**27**	12	4	**16**	30	13	**43**
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	01	25	03	**28**	04	-	**04**	29	3	**32**
Household food security										
Any other (pl.specify)										
Total	**2**	**43**	**12**	**55**	**16**	**4**	**20**	**59**	**16**	**75**

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	4	111		111		8	8	111	8	119
Integrated Pest Management	**02**	22	7	**29**	39	9	**48**	61	16	**77**
Integrated Nutrient management	3	356		356		8	8	356	8	364
Rejuvenation of old orchards	1	50	8	58				50	8	58
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs	1	100	20	120	20	20	40	120	40	160
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	**11**	**639**	**35**	**674**	**59**	**45**	**104**	**698**	**80**	**778**

7.G. Sponsored training programmesconducted

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	**03**	86	12	**98**	62	13	**75**	148	25	**173**
1.b.	Commercial production of vegetables	3	85		85	8		8	93		93
2	**Production and value addition**	3	150		150				150		150
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**	**01**	38	-	**38**	07	-	**07**	45	-	**45**
4	**Production of Inputs at site**										
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition	1					53	53		53	53
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)	1		38	38		5	5		43	43
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management	6	300	85	385				300	85	385
10.b.	Animal Disease Management	2		220	220					220	220
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
11.	**Home Science**										
11.a.	Household nutritional security										
11.b.	Economic empowerment of women	1		53	53					53	53
11.c.	Drudgery reduction of women	1		40	40					40	40
11.d.	Others (pl.specify)										
12	**Agricultural Extension**										
12.a.	CapacityBuilding and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	**22**	**659**	**448**	**1107**	**77**	**71**	**148**	**736**	**519**	**1255**

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

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	**01**	19	4	23	12	0	12	31	4	35
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	**22.03.2019**	**20**		-			-		**20**	-	**20**	**27.08.19**	**16**
2.	Quality seed grower	25.02.2019	**22.03.2019**	**20**		-			-		**20**	-	**20**	**27.08.19**	**16**

PART VIII – EXTENSION ACTIVITIES(2019)

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	13	198	65	**263**	269	59	**348**	-	-	-
KisanMela	03	35000	5000	40000	15000	3000	18000	350	180	530
KisanGhosthi	14	40	10	50	60	20	80	5	2	7
Exhibition	2	800	200	1000	1400	100	1500	55	2	57
Film Show	28	320	15	335	215	20	235	8	3	11
Method Demonstrations	12	240	40	280	150	20	170	5	2	7
Farmers Seminar	03	90		90	15		15	8	3	11
Workshop	05	105	10	115	45	5	50	8	2	10
Group meetings	13	55	13	68	97	15	112	8	2	10
Lectures delivered as resource persons	65	260	40	300	180	15	195	10	2	12
Newspaper coverage	43									
Radio talks	12									
TV talks	08									
Popular articles	02									
Extension Literature	20									
Advisory Services	677	380	15	395	260	15	275	5	2	7
Scientific visit to farmers field	95	50	6	56	40	4	44	03	02	5
Farmers visit to KVK	594	340	25	365	180	15	195	24	10	34
Diagnostic visits	07	40	10	50	60	20	80	5	2	7
Exposure visits	10	80	10	90	30	5	35	3	2	5
Ex-trainees Sammelan	-									
Soil health Camp	01	90		90	15		15	8	3	11
Animal Health Camp	02									
Agri mobile clinic	-									
Soil test campaigns	01	135	15	150	155	15	170	5		5
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	01	10	75	85	6	40	46	2	7	9
MahilaMandals Conveners meetings	-	-	-	-	-	-	-	-	-	-
Celebration of important days (specify)	08	650	80	730	350	40	390	15	6	21
Bimonthly meeting	02	35	2	37	18		18	15	6	21
Celebration of important days	9	650	80	730	280	40	320	15	5	20
Total	**1650**	**39568**	**5711**	**45279**	**18825**	**3448**	**22293**	**557**	**243**	**800**

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	22.10.2019	69	9	**78**	112	26	**138**	16	-	**16**
National Animal Disease Control Programme	11.09.2019	28	8	**36**	56	7	**63**	12	-	**12**
Tree Plantation Campaign	17.09.2019	30	12	**42**	18	23	**41**	48	35	**90**
Any other, Pl.specify										
Vigilance week	28.10.2019 to 02.11.2019									
SwachthaPakhwada	16.12.2019 to 31.12.2019									**122**
Parthenium eradication week	16 to 22 August 2019									

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2019)

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Name of the Variety	Name of the Hybrid	Quantity of seed (kg)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Foxtail millet	HMT-100-1	-	600	-	-
Oilseeds	-	-	-	-	Un processed	-
Pulses	Redgram	TS-3R	-	1000	Un processed	
	Bengalgram	JG-11	Harvesting is under processing			
Commercial crops	-	-	-	-	-	-
Vegetables						
Flower crops	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Fodder crop seeds	Fodder sorghum *Kharif*	CoFS-29	-	400	2,00,000	Yet to be provided
	Fodder sorghum *rabi*	CoFS-29	Seed setting stage			
Fiber crops	Sunhamp	Local	Harvesting is under processing			
Forest Species	-	-	-	-	-	-
Others (specify)	-	-	-	-	-	-
Total	-	-	-	-	-	-

9.B. Production of planting material by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial	-	-	-	-	-	-
Vegetable seedlings	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-
Medicinal and Aromatic	-	-	-	-	-	-
Plantation	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Tuber	-	-	-	-	-	-
Fodder crop saplings	-	-	-	-	-	-
Forest Species	-	-	-	-	-	-
Others(specify)	-	-	-	-	-	-
Total	-	-	-	-	-	-

9.C. Production of Bio-Products

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

9.D. Production of livestock

Particulars of Livestock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals	-	-	-	-
Cows	-	-	-	-
Buffaloes	-	-	-	-
Calves	-	-	-	-
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:_____Copies printed in each issue:_____

(B) Literature developed/published

Item	Number
Research papers- International	3
Research papers- National	17
Technical reports	5
Technical bulletins	4
Popular articles - English	0
Popular articles – Local language	14
Extension literature	30
Books	2
TOTAL	75

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 (3 No.) 2. Telegram Group 3. Face book 4. Instragram 5. Twitter **6.** YouTube	
4	Face book account name	ICAR-KrishiVigyan Kendra Raichur	
5	Instagram account name	KVKRaichur	
6	You tube channel	ICAR-KrishiVigyan Kendra Raichur	
7	**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).

This will be considered only with suitable photos for further reporting/reference.

The Broad outline for the case study may be

Title

Background

Interventions
- Process
- Technology

Impact
- Horizontal Spread
- Economic gains
- Employment Generation

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

Sl.No	Particulars	Remarks
1.	Title of innovation	**1.Drip laterals rolling machine** **2.Bullock drawn chemical fertilizer drilling machine**
2.	Thematic area	**Engineering (Farm Machinery)**
3.	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** 
4.	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.
5.	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.
6.	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.
7.	Source of information	His own innovation
8.	Economics/ Profitability of innovation / technology (costs and return per unit/ intervention / area / household)	**Cost of implement :** **1.Drip rolling machine:** Rs.5000/- (Rupees Five thousand only) For rolling drip laterals of one hectare -7 men labourers will be engaged for one day. It may cost around Rs.2500/- Beside this it also protect laterals from bending or damage while rolling and helps in maintain life span of laterals **2. Bullock drawn chemical/fertilizer drilling implement** Rs.5000/- for chemical drilling implement Drilling chemical/fertilizer for 1ha -1 labour engaged for one day and also one bullock harrowing is needed for covering applied chemical/fertilizers(1labour =Rs.350/- and 1 Bullock pair= Rs.1000/-). Hence manual chemical /fertilizer drilling cost = Rs.1350/- per one drilling. Beside this it also helps in avoiding chemical contact with human
9.	Potential : Acceptance level, horizontal spread of innovation and number of farmer adopting	These technologies were used by the number of farmers in his village and also by the neighbouring villages. They will get the implement from him and get work done by these implements. The few beneficiary farmers name are here • Bettappa,Jagatagal • UrukundappaGejjebhavi • Duragappa,Jakkaladdinni • LaxmanaPikasi,Jakkaladdinni -7996077093 • Rachappakurubaa,Jakkaladdinni-9743131228 • Ravikumar,Sangawar-9845557413
10.	Illustrate with high quality photos with caption, graphs	

PHOTO 1



Drip pipe-line rolling machine



Drip pipe-line rolling machine

		
	Bullock drawn chemical drilling implement	**Bullock drawn chemical drilling implement**

Success Stories: FIG for Figs (Farmers' Interest Group for Figs).



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

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 2019:

Period of observing Technology Week: From 03.12.2019 to 10.12.2019

Total number of farmers visited : 228

Total number of agencies involved : 12

Number of demonstrations visited by the farmers within KVK campus : 18

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	8	480	Soil and water conservation, crop diversification, exotic crops, value addition, IFS, Improved cultivation practices
Lectures organized	9	680	➢ Agriculture and ecology, Agrobased livelihood activities ➢ Sustainability and livelihood ➢ IGAs Jakkaladinni ➢ Importance of wter and climate resilient agriculture in changing climate ➢ Farmers' innovation, farm mechanisation, value addition and agricultural marketing ➢ Ecofriendly pest management in paddy ➢ Training an improved cultivation practices of green fodder in animal husbandary
Exhibition	5	35 k +	In KrishiMela
Film show	7	410	All subject covered by scientists
Fair	1	15000	UAS Raichur Krishimela
Farm Visit	8	228	KVK farm and innovative farmers' farm visit
Diagnostic Practicals	4	92	1. Nursery pot mixture preparation 2. Mushroom bed preparation 3. Spiral grader demonstration
Supply of Literature (No.)	5	300	Supplied folders, Technical bulletins and Handouts
Supply of Seed (q)	-	-	
Supply of Planting materials (No.)	-	-	
Bio Product supply (Kg)	25kg 2 kg	25 100 bottles	1. Mushroom spawn 1kg each 2. Waste De-composer (microbial consortia)
Bio Fertilizers (q)	-	-	
Supply of fingerlings	-	-	
Supply of Livestock specimen (No.)	37	370	Giriraja birds
Total number of farmers visited the technology week	-	-	

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

Secured first prize in State level pashu and Matsyamela at Sindhanur in January 2019

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

A.Status of establishment of Lab : Yes

1. Year of establishment : 2005
2. List of equipment's purchased with amount : 856366

Sl. No	Name of the Equipment	Qty.	Cost	Status
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	
33	AAS	01	180000	
Total			**1036366**	

B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samplesanalyzed	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
Others (specify)				
Total	**3324**	**3290**	**2041**	**564250**

C. Details of samples analyzed during the 2019:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	-	-	-
Water Samples	-	-	-
Plant samples	-	-	-
Manure samples	-	-	-
Others (specify)	-	-	-
Total	-	-	-

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

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

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

	Progress during 2019	Cumulative progress
Samplesanalyzed (No.)	-	-
Farmers benefited (No.)	-	-
Villages covered (No.)	-	-

11.3 Details of soil health cards issuedbased on SWTL &Mobile Soil Testing Kitduring 2019:

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL	-	-	-	-	-
Mobile Soil Testin Kit	-	-	-	-	-

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No.)	Media coverage (No.)
1	**140**	**25**		**2**	**12**	**5**

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
ZillaPanchyath 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

S. No.	Title of the Project	Funding agency	Outlay (Rs. Lakhs)	Duration (years)
1	Evaluation of Metolachlor 50% EC against complex weed flora in cotton and its effect on succeeding crop	UPL Mumbai	7.920	2
2	Evaluation of Metolachlor 50% EC against complex weed flora in maize & its effect on succeeding crop, Bengalgram	UPL Mumbai	7.150	2
3	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
4	Enhancing the farmers income & welfare	KAPC GOK	25.00	3
5	Improved programme integrated in rainfed areas KWDP (Karnataka Watershed Development Project-II	World Bank through GOK	403.0	5
6	Capacity development trainings for the farmers implementing watershed development activities in micro watershed villages of Raichur	KSDA, GOK Bengaluru	2.00	1
7	Kisan Biotech Hubfor farmers income & welfare	DBT GOI	31.00	2
8	Linking KVK to FPO for technical support under comprehensive horticulture development scheme	Dept. of Hort. ZP,GOK	3.098	2
9	Linking KVK to FPO for technical support under comprehensive horticulture development scheme	Dept. of Hort. ZP, GOK	3.098	1
10	ParamparagathKrishiVikasYojane	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	**3**	**3**	
		2. Honey extraction	**02**	**02**	
		3.Azolla production	**05**	**05**	
		4. Use of Spiral grader for cleaning and grading pulses	**04**	**04**	
		5. Bakery products making	**02**	**02**	
		6. Seed treatment in pigeon pea, chickpea etc..	**03**	**03**	
		7. Use of pheromone sleeve trap in chickpea, pigeon pea and vegetable crops	**06**	**06**	
		8. Use of nipping machine in pigeon pea	**03**	**03**	
05	**Extension Programmes**				
	KisanMela	01			
	Technology Week	01			
	Exposure visit	02			
	Exhibition	04			
	Soil health camps	01			
	Animal Health Campaigns	04			
	Others (Pl. specify)				
06	**Publications**				
	Video Films				
	Books	**Strategic Research and Extension Plan of Raichur district.**			
	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
1	FPO (ParisarpremiDevasugur)	Farmer production	3,09,000	58,000	-
2	FPO (Lingasugur)	Farmer production	3,09,000	-	-

13E. Nature of linkage with National Fisheries Development Board

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

13F. Details of linkage with RKVY

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

13G. Kisan Mobile Advisory Services

Month	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	Text	4	02					6	8500
February	Text	6	01		1	1	1	10	8600
March	Text	9		2				11	9200
April	Text	7	03	1	1	1	1	14	10500
May	Text	6		1	1	1		9	11900
June	Text	7	02	1				10	11960
July	Text	6			1	1	1	9	11960
August	Text	4	03					7	11960
September	Text	5			1	1	1	8	11960
October	Text	6	01					7	11960
November	Text	7			1	1	1	10	11980
December	Text	4	03				1	8	11980
Total		**71**	**15**	**5**	**6**	**6**	**6**	**109**	**132460**

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									
Foxtailmillet	19.07.2019	14.11.2019	0.4	HMT-100-1	Seeds	600	6870	18,000	Not Sold expected income
Pulses									
Pigeon pea	14.07.2019	10.01.2020	1.0	TS-3R	Seeds	753	9435	34,050	
Chickpea	27.11.2019	16.01.2020	0.8	JG-11	Seeds	369	3400	13808	
Oilseeds									
Fibers									
Sunhemp									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									
Fodder Sourghum	21.02.2019	10.03.2020	1.0	CoFs-29	Seeds	940	43,082	423000	Not Sold expected income

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

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

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

Sl. No	Name of the animal /bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
-	-	-	-	-	-	-	-

14E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Amount	Reason for short fall (if any)
January	12	9	16800	
February	14	9	19800	
March	13	11	21650	
April	7	3	3350	
May	9	6	8000	
June	5	7	5850	
July	10	6	8700	
August	12	9	16300	
September	22	19	62600	
October	14	13	27250	
November	5	2	1500	
December	9	6	8350	

14F. Database management

S.No	Database target	Database created
1	Trainings, OFT/ FLD Demo. And Extension Activities	Trainings, OFT/ FLD Demo. And Extension Activities

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 ParamparagathKrishiVikasYojana (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	Sulthanpura (UnnemathuKurisakanikeUthpadakaraSangha) (Devasuguru)	Yet to be analyzed				FYM, Goat manure, Sheep manure, WDC & Vermicompost, Vermiwash, Jeevamrutha	Pigeon pea, Groundnut, Chickpea, Sunflower, Millets, Guava, Custard apple, Pomegranate, Fig, Drumstick, &Curry leaf	TS-3R, K-9, JG-11, RSFH-1887	PSB, Azospirillium, Rhizobium, Trichoderma, Pseudomonas, Metarhizium, Beauveria	-	-	-
2	Yaragunta& Ibrahim doddi (Devasuguru)	Yet to be analyzed				FYM, Goat manure, Sheep manure, WDC & Vermicompost,Vermiwash, Jeevamrutha	Onion, Cucumber			-	-	-
3	Gurjapura (Devasuguru)	Yet to be analyzed				FYM, Compost, WDC, Vermicompost,, Vermiwash, Jeevamrutha, &Panchagavya	Paddy & millets	BPT-5204	PSB, Azospirillium, N, P, Solubilizers, Pacilomyces, Rhizobium, Trichoderma, Pseudomonas, Metarhizium, Beauveria	-	-	-
4	Hooganahalli (Chandrabanda)	Yet to be analyzed				Neemcake, Compost, Vermicompost,Vermiwash, Jeevamrutha, &Panchagavya	Paddy, Pigeon pea	BPT-5204, RNR, TS-3R	Rhizobium, Trichoderma	-	-	-
5	Chimalapura (Neeramanvi) (BasaveshwaraSavayaKrishiSangha)	Yet to be analyzed				FYM, Goat manure, Sheep manure,WDC& Vermicompost,Vermiwash, Jeevamrutha	Millets & Pigeon pea	TS-3R	PSB, Azospirillium, Rhizobium, Trichoderma,	-	-	-

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	2350	11200	1	188

15.3 Fertilizer awareness programme 2019

State	Name of KVK	Details of Activities/programmeOrganised	Number of Chief Guests	No. of Farmers attended program	Total participants
Karnataka	**ICAR-KVK, Raichur**	• Introductory remarks • Imbalanced use of plant nutrients (major and micro) • Decline response ratio of soil to fertilizer application • New type of fertilizers (liquid fertilizers, special compounds, bio-fertilizers, slow release fertilizers, etc.)	**05**	**188**	**226**

15.4Seed Hub

Crops	*Variety*	*Year of release*	*Production*				*Remarks*
			Target (q)	*Area (ha.)*	*Actual Production (q)*	*Category(FS/CS)*	
-	-	-	-	-	-	-	-

15.5CFLD on Oilseed : As per the excel sheet enclosed

15.6Seed on Pulses : As per the excel sheet enclosed

15.7 KrishiKalyanAbhiyan

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

15.8 Micro-Irrigation

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

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 2018-19(Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	**12000000**	12000000	12163749
2	**Traveling allowances**	110000	75000	73353
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	200000	200000	193820
B	POL, repair of vehicles, tractor and equipments	125000	115000	110776
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	100000	80000	50620
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	75000	30000	27535
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	260000	210000	170477
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	65000	55000	35490
G	Training of extension functionaries	-	-	-
H	Maintenance of buildings	25000	24000	8320
I	Establishment of Soil, Plant & Water Testing Laboratory	30000	30000	29967
J	Library	-	-	-
H	EDP	30000	0	0
TOTAL (A)			30000	10000
B. Non-Recurring Contingencies			50000	20000
1	**Works**	-	-	-
2	**Equipment including SWTL & Furniture**	-	-	-
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	5000	5000	4384
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND			-	-
GRAND TOTAL (A+B+C)		**13105000**	**12854000**	**12874491**

16C. Status of revolving fund (Rs. in lakh) for the last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2017 to March 2018	7,97,256/-	3,44,910/-	3,94,475/-	7,47,691
April 2018 to March 2019	7,47,691/-	7,90,769/-	58,219/-	6,57,241/-
April 2019 to December 2019	6,57,241/-	3,92,702/-	4,20,869/-	9,80,700/- (Rs. 407800 Seeds stock)

17. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. Shreevani G.N.	Scientist (Agril. Entomology)	Orientation programme for newly joined KVK staff	JSS-KVK, Suttur, Mysuru	16.09.2019 to 20.09.2019
Dr. G.S.Yadahalli	Senior Scientist and Head	Orientation programme for newly joined KVK staff	KVK, Kasargod	24.09.2019 to 28.09.2019
		Indian Science Congress	GKVK, UAS, Bengaluru	03.01.2020 to 07.01.2020
		Exposure visit to Hyderabad Museums	PJTSAU , IIRR	05.07.2019 to 06.07.2019
		Contingency crop plan workshop	DE UASR	19.07.2019
Dr. Anupama C.	Scientist (Home Science)	National conference on – "Arid fruits : A way forward for sustainable production and nutritional security	UAS, Raichur	28.11.2019 to 30.11.2019
		Model Training Course on Role of Farmer producer organizationsin strengthening the farmers' Economy	College of Agriculture Raichur	17.01.2020 to 24.01.2020
		Exposure visit to Hyderabad Museums	PJTSAU , IIRR	05.07.2019 to 06.07.2019
Dr. Pralhad	Scientist (Animal Science)	International Conference on "Sustainable Agriculture Production for Food, Nutrition and Livelihood Security: A Challenge for Asian Farmers"	Pattaya, Thailand	22.09.2019 to30.09.2019
Dr. Shreevani G.N.	Scientist (Agriculture Entomology)	Production and utilization of Biocontrol agents- a way forward for sustainable agriculture	UAS, Raichur	11-02-2019 to 21-02-2019

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

- Farmers' Exposure visit to KVKR—278
- Students' Exposure visit to KVKR—165
- Officials and Trainees visit to KVKR—45
- RAWE placement to KVKR -- 80