ICAR- KRISHI VIGYAN KENDRA, BAGALKOTE

ANNUAL REPORT- 2020

(01 January, 2020 TO 31 December, 2020)

Scan for KVK address

ICAR-KVK BAGALKOTE
Near Railway station, Badami Road, Bagalkote-587101,
Host Institute: University of Agricultural Sciences, Dharwad
Email: kvkbgk@rediffmail.com, kvk.Bagalkot@icar.gov.in **website : www.kvkbagalkot.com**
Tel: 08354 – 295543 Fax: 08354 – 295543

GENERAL INSTRUCTIONS

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

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

- Period of Report is from 01 January, 2020 to 31 December, 2020.

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

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

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

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

- Check the units and totals of each data table.

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

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

PART I - GENERALINFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra, Bagalkote – 587 101	**08354 – 295543**	**08354 – 295543**	**kvkbgk@rediffmail.com kvk.Bagalkot@icar.gov.in**	**www.kvkbagalkot.com**

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, Krishi Nagar, Dharwad – 580 005	**0836-2447494**	**0836-2447783**	**deuasd@rediffmail.com**	**www.uasd.edu**

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

Name	**Telephone / Contact**		
	Residence	**Mobile**	**Email**
Dr. Mouneshwari R. Kammar	9448631170	9448495347	mrkammar13@gmail.com

1.4. Year of sanction: 2005

1.5. Staff position as on 31 December 2020

Sl. No.	Sanctioned Post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Head/Senior Scientist	Dr. Mouneshwari R Kammar	Head/Senior Scientist	F	Home Science	Ph.D	37400 – 67000	46400	24.07.2017	Permanent	OBC
2	Scientist/SMS	Dr. Dineshkumar S P	Scientist/SMS	M	Agronomy	Ph.D	15,600-39,100		15-02-2017	Permanent	SC
3	Scientist/SMS	Dr. Sudha S.	Scientist/SMS	F	Plant Pathology	Ph.D	15,600-39,100	26360	03-04-2017	Permanent	SC
4	Scientist/SMS	Dr. Airadevi P Angadi	Scientist/SMS	F	Horticulture	Ph.D	15,600-39,100	25590	24-07-2017	Permanent	OBC
5	Scientist/SMS	Dr. Venkanna balaganur	Scientist/SMS	M	Animal Science	Ph.D	15,600-39,100	25590	28-07-2019	Permanent	Others
6	Scientist/SMS	Mr. Arjun R S	Scientist/SMS	M	Ag. Entomology	M.Sc	15,600-39,100	22250	03-07-2018	Permanent	OBC
7	Scientist/SMS	**Vacant**	Scientist/SMS	-	Home Science	-	15,600-39,100	-	-	-	-
8	Technical Officer (Lab Tech.)	Mr. Siddappa C. Angadi	Programme Assistant (Lab Tech.)	M	Agril. Extension	M.Sc	9300 – 34800	19200	18-12-2008	Permanent	OBC
9	Programme Assistant (Computer)	**Vacant**	Programme Assistant (Computer)	-	-	-	9300 – 34800	-	-	-	-
10	Programme Assistant/ Farm Manager	**Vacant**	Programme Assistant/ Farm Manager	-	-	-	9300 – 34800	-	-	-	-
11	Assistant	F.C. Nadaf	Assistant	M	Accountant	S.S.L.C	8000 – 14800	-	08.05.2020	Permanent	SC
12	Jr. Stenographer	**Vacant**	Jr. Stenographer				8000 – 14800				
13	Driver – 1	Chandrashekar Makapur	Driver - 1	M	Driver (LV)	B.A.	11600 -21000	24600	07-02-2018	Permanent	OBC
14	Driver – 2	Mr. Mahadeva V Pujari	Driver - 2	M	Driver (LV)	S.S.L.C.	11600 - 21000	28950	27-07-2017	Permanent	OBC
15	SS-1	**Vacant**	SS-1				11600-21000				
16	SS-2	Smt. Renuka Arawatagi	SS-2	F	Farm Labour	VII th	4800 – 7275	19500	7-10-2011	Permanent	OBC

1.6. Total land with KVK (in ha): 22.9 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.80
2.	Under Demonstration Units	0.80
3.	Under Crops	19.3
4.	Orchard/Agro-forestry	2.0
5.	Others	-

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	31.03.2007	488.20	4700000			Good
2.	Farmers Hostel	ICAR	31.03.2007	299.31	2920000			Good
3.	Staff Quarters	ICAR	31.03.2007	399.72	3560000			Good
4.	Demonstration Units							
	Dairy Unit	GOK	2009-10		1403360			
	Vermicompost unit	RF	2017		701520			
	Farm pond	GoK						
	Azolla Unit	RF						
	Vermiwash Unit	UASD	2017		326732			
	Bio-digester Unit	UASD	2017		305012			
	Hydroponic Unit	UASD			40000			
	Vertical Garden	ICAR	31.07.2017		7000			
	Medicinal and aromatic plants block	RF	2017		50000			
	Goat rearing Unit	RF	2017		35000			
	IFS block under KBY	GOK	2017		250000			
	Vermicompost Sieving unit	RF	2017		25000			
	Shadenet House	UASD	2013-14		182640			
	Apiculture Unit	RF	2017		20000			
	Sericulture Unit	RF	2017					
	Horticulture Block	ICAR	2013-14					
	Four Wheeler Parkind shead	UASD	2017		998000			
	Entarance Gate	UASD	2017		986000			
	Seed Store room	UASD	2017		684000			
	Threshing yard	UASD	2017		994000			
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor	UASD	2017		100000			
8	Seed Processing unit	Seed Hub	2019		3500000			

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Bolero	2019	8,00,000	16394	Working
Tractor with trolley	2005	3,70,000	9205.5	Working
Motor Cycle (CD Deluxe)	2006	39,600	49533	Working
Motor Cycle (Passion)	2009	48,814	38163	Working

C) Equipment & AV aids

Name of the equipment	**Year of purchase**	**Cost (Rs.)**	**Present status**
Weighing machine	2005	325	Good Condition
Spring balance	2005	60	Good Condition
Plastic chairs	2005	12000	Good Condition
Xerox machine	2006	72000	Good Condition
Digital camera	2006	18450	Good Condition
Insect storage cabinet	2006	13200	Good Condition
Insect exhibition cabinet	2006	9000	Good Condition
Tractor drawn plough	2006	18500	Good Condition
Seed cum fertilizer drill	2006	9900	Good Condition
Computer	2007	29326	Good Condition
Laser printer	2007	20642	Good Condition
Scanner	2007	2600	Good Condition
Gas stove	2006	850	Good Condition
Mixer/grinder	2007	1650	Good Condition
Bakery oven	2007	4377	Good Condition
Notice board	2007	6750	Good Condition
White writing board	2007	3000	Good Condition
Sewing machine	2008	19700	Good Condition
Sprayers	2008	7781	Good Condition
Godrej Executive Table	2008	19333	Good Condition
Godrej office Table(T-104)	2008	101592	Good Condition
Godrej office Table(T-9)	2008	49650	Good Condition
Godrej computer work station	2008	28745	Good Condition
Godrej 4 drawer filing cabinet	2008	24848	Good Condition
Godrej almaras	2008	71754	Good Condition
Godrej 4 way book shelf	2008	25712	Good Condition
Godrej chairs	2008	52500	Good Condition
Godrej chairs	2008	25551	Good Condition
Godrej office chairs	2008	43975	Good Condition
Juicer	2009	7369	Good Condition
LCD mounting	2009	15400	Good Condition
Sony LCD television	2009	43950	Good Condition
Fax machine	2009	13950	Good Condition
Traditional chakky machines	2009	3000	Good Condition
Hero Honda (Passion plus) motor cycle	2009	48814	Good Condition

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Envirofit choolhas	2009	2350	Good Condition
Acrylic Boards	2010	3505	Good Condition
Groundnut strippers	2010	3560	Good Condition
Rawa and Atta machine	2010	32513	Good Condition
Chop cutter machine	2010	28000	Good Condition
Pigeon gas stove, Pipe, Regulator	2010	2872	Good Condition
Aspee sprayers	2010	5530	Good Condition
Steel cots, Beds, Dining Table (big one with 30 chairs)	2010	199625	Good Condition
Hindalium pateli & lid, Plate S .S., Rice spoon for hostel	2010	3503	Good Condition
Dish TV – DTH set	2010	1980	Good Condition
Electronic Weighing Scale	2010	12800	Good Condition
Podiums	2010	12900	Good Condition
Bamboo yoke 12’	2010	660	Good Condition
Wooden yoke 8’	2010	1100	Good Condition
Intercultivation Hoe 12”	2010	2860	Good Condition
Intercultivation Hoe 18”	2010	3080	Good Condition
Intercultivation Hoe 24”	2010	3520	Good Condition
Wooden yoke (10’ tines)	2010	550	Good Condition
Hostel utensils and accessories	2010	9434	Good Condition
Dairy Utensils and accessories	2011	690	Good Condition
Single bottom reversible mb plough	2011	46000	Good Condition
Two bottom reversible mb plough	2011	49000	Good Condition
Mouse USB	2011	220	Good Condition
Groundnut decorticator	2011	4500	Good Condition
EPABX accessories	2011	63615	Good Condition
7.5 KVA Generator	2011	92000	Good Condition
Hitachi cp X 4687 multimedia projector	2011	97610	Good Condition
Anand spiral seperator (250 to 300 kg)	2012	12000	Good Condition
Shewing machine LP1 Model DA-1	2012	8064	Good Condition
Tractor operated post hole digger	2012	42748	Good Condition
Light trap	2012	9975	Good Condition
Digital moisture meter	2012	49020	Good Condition
District Map (size 36”x40”) – 3 No.s	2012	24750	Good Condition
pH meter (ELICO)	2012	23005	Good Condition
Tractor operated zero till machine	2012	47500	Good Condition
Bedsheet	2013	3800	Good Condition
ELICO Microprocessor	2013	23005	Good Condition
Tractor operated zero tills	2013	47500	Good Condition
Bhavani dehuller/pearler capacity	2013	56500	Good Condition
Stopper (Big size)	2013	920	Good Condition
Coconut climber ladder	2013	2500	Good Condition
Multi functional printer (Brother)	2014	9500	Good Condition
Nikon coolpix camera P520	2014	34793	Good Condition
Bio-metric K-20 Machine	2015	14885	Good Condition
Hard disk 1TB	2015	4850	Good Condition
Bhaji choupali	2015	520	Good Condition

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Bucket Small	215	410	Good Condition
Microtek UPS 110FB	2015	6050	Good Condition
Hi-power battery Is-150AH	2016	13200	Good Condition
Lab equipment stands	2016	8990	Good Condition
Lab equipment stands	2016	8990	Good Condition
UPS microteck 1125/V/A	2016	9600	Good Condition
Battery okaya 150 Ah	2016	9900	Good Condition
Revo Bag closer machine	2016	7699	Good Condition
Bund farmer kit	2016	3700	Good Condition
Lap top H.P. core i7	2016	60216	Good Condition
Sony Make LED Tv (32")	2016	33167	Good Condition
Canon photo copier	2016	228500	Good Condition
Fermentor	2016	141400	Good Condition
5 HP kirolskar oil engine	2016	39000	Good Condition
Bee colonies swith hive	2016	16000	Good Condition
Iron stand	2016	3400	Good Condition
Digital scale	2017	2200	Good Condition
Fibre angle scale 5 kg capacity	2017	700	Good Condition
2 kg to 500 gm scale	2017	260	Good Condition
HP Texmo Index based single Phase	2017	7855	Good Condition
R.O. System (Kent Park)	2017	55000	Good Condition
Supply and installation of CCTV-Cameras	2017	75028	Good Condition
UPS 2KVA Online UPS along with battery	2017	94500	Good Condition
Handy Planter	2017	4000	Good Condition
Mechanized Vermicompost sieving machine	2017	19470	Good Condition
Godrej Pad lock	2017	1300	Good Condition
½ H.P. Motor Pump set	2017	3400	Good Condition
450mm dia x2.5 mtr length rcc cattle trough	2017	10148	Good Condition
Pillow Cover	2017	1100	Good Condition
Students seminor chair	2018	84960	Good Condition
450 mm diameter x2.5 meter RCC trough	2018	2360	Good Condition
450 mm diameter x2.5 meter RCC trough	2018	2360	Good Condition
Onion storage structure	2018	15080	Good Condition
450 mm diameter x2.5 meter RCC trough	2018	14400	Good Condition
Name board google map & farm map	2018	8010	Good Condition
Square Mesh	2018	4680	Good Condition
Board frame	2018	12000	Good Condition
ASPEE battry sparayer	2019	3500	Good Condition
Fodder storage bin	2019	3000	Good Condition
Seed storage bin	2019	3000	Good Condition
Laptop	2019	66400	Good Condition
Printer	2019	21448	Good Condition
Soil moisture meter	2019	1665	Good Condition
5 feet lader	2019	3860	Good Condition
Syntax	2019	5500	Good Condition
Barrel	2019	2000	Good Condition

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Syntax	2019	5500	Good Condition
Barrel	2019	1000	Good Condition
Honeybee colonies	2019	4000	Good Condition
Table	2019	22000	Good Condition
Chair	2019	16847	Good Condition
Almera	2019	12000	Good Condition
Computer	2019	57200	Good Condition
Dinddu Farm equipment	2019	16500	Good Condition
Fridge	2019	19800	Good Condition
Seed processing plant	2019	1306095	Good Condition

1.8. Details of SAC meeting conducted during 2020

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
13.11.2020	45	KVK to introduce varieties suitable for climate change	Action will be initiated	
		Promote the concept of organic farming among rural youth and train five youth from each village	Action will be initiated	
		Popularize drip irrigation, planting along the bunds	Action will be initiated	
		To participate in the soil health camps conducted by Rohini Biotech	Action will be initiated	
		To conduct more programmes on goat farming, organic farming and snail management	Action will be initiated	
		Conduct training on agriculture skill development to supplement farm income	Action will be initiated	
		For the outbreak of the diseases in Papaya, conduct a joint diagnostic survey along with UHS and Dept. staff	Joint survey conducted	
		Popularize mechanized harvesting in sugarcane to overcome agriculture labour problems	Action initiated	
		To prepare a folder on alternate cropping system and popularize among farmers	Action initiated	
		To popularize management practices of striga in sugarcane	Action initiated	
		To conduct exclusive trainings on organic and IFS trainings	Action initiated	
		To popularize dryland horticulture and emphasize on the production of ber, fig, custard apple, sapota	Action initiated	
		To analyse the impact of minimum two successful technologies	Action initiated	

		To give importance to inland fisheries	Action will be initiated	
		To popularize high yielding varieties among bajra and millets	Action will be initiated	
		To emphasize more on activities related to doubling of farmers income	Action will be initiated	
		Demonstrate technologies on soil moisture conservation techniques	Action will be initiated	
		To update the website of KVK regularly and include a kannada page	Action initiated (KVK webpage included case studies in kannada)	
		To disseminate technologies related to weather forecasting and tips based on weather	Action initiated	
		Information on internal lending, bank loan and crop insurance has to be disseminated regularly	Action will be initiated	
		To promote FPOs for branding, packing and marketing skills	Action will be initiated	
		To establish a model IFS at KVK Bagalkot	Action will be initiated	
		To popularize processing and marketing of turmeric	Action will be initiated	
		To disseminate knowledge regularly through radio, TV and popular articles	Action initiated	

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
Rainfed Situation	
1	Greengram – Sorghum
2	Sunflower – Chickpea
3	Fallow – Sorghum
4	Bajra + Pigeon pea
5	Groudnnut + Pigeonpea
6	Sorghum + Pigeonpea
7	Sole Pigeonpea
8	Fallow – Chickpea
9	Goat, Sheep, Cows and Buffaloes rearing
Irrigated Situation	
10	Sugarcane based cropping system
11	Pomegranate based cropping system
12	Sapota based cropping system
13	Banana
14	Maize – Groundnut
15	Bajra-Groundnut
16	Maize-Sunflower
17	Soybean-Wheat
18	Turmeric
19	Onion-Chilli
20	Dairying
21	Goat/Sheep rearing
22	Agri. Horti, Agroforestry

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

S. No	Agro-climatic Zone	Characteristics
1	Northern Dry Zone of Karnataka, Zone–3 1. Irrigated (35%) 2. Rain-fed (65%)	Very less rainfall (570.00 mm), 35-40 rainy days, Medium Black, Deep black and Red soils. Partly irrigated (35%), July and September are peak rainy months. All types of crops are grown including Horticultural crops. Agricultural crops – Sugarcane, Sunflower, Maize, Groundnut, Horticultural crops – Pomegranate, grape, Sapota, Banana, Papaya, Mango Vegetables – Onion, Chilli, brinjal, tomato etc Spices – Turmeric, Chilli, Garlic, Ginger etc. Sorghum, Bajra, Greengram, Bengalgram, sunflower, Sesamum,Redgram,Safflower etc.

S. No	Agro ecological situation	Characteristics
1	Rainfed Irrigated Irrigated & rainfed	Deep black soils (Hungund, Bagalkot) Medium Black soil (Badami, Mudhol, Jamakhandi) Red soils (Badami, Bagalkot, Bilagi) Source – Well, Gataprabha Left Bank Canal(GLBC), Malaprabha Left Bank Canal(MLBC), Upper Krishna Project(UKP), Tank and lift irrigation

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Black Soils	Possess a characteristically dark colour, ranging from dark brown to deep black. They are high in clay content, clay mostly belong to montmorillonitic group, and are sticky and plastic when wet. They show strong swelling and shrinkage with changes in moisture content and produce deep and wide cracks. Their limitation for crop production is because of their poor tillage and poor drainage. The black color may be due to presence of clay- humus complexes or titaniferous-magnetite compounds. The soils classified as shallow – possessing a depth of 30 cm or less, medium – 30 to 100 cm and deep black soils – 100 to 200 cm or even more. According to soil taxonomy the common orders, sub orders and great groups of black soils are as follows. Order – Vertisol Sub order – Torrerts and Usterts Great group – Torritorrerts, Usttorrerts, Torriusterts and Ustusterts	2,86,549
2	Red Soils	Well-drained soils, with clay enriched subsoil developed from granite, gnesis or schists under subtropical climate. The normal red soils have a pH around neutrality or acidic side. The A-horizon is dark reddish brown while B-horizon may have a dark brown color. The clay minerals become coated with red hematite or yellow limonite forming a reddish-yellow soil. Impure iron, alumina-silica concretions and quartz are common constituents of red soil. According to soil taxonomy the common orders, sub orders and great groups of red soils are as follows. Order – Alfisol and Ultisol Sub order – Ustalfs, Ustults, Aqults Great group – Haplustalfs, Rhodustalfs, Paleustalfs, Haplustults, Rhodoustults, Ochraquults	1,91,032

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

Unit: Area in Hects., Prodn. in Tonnes, Cotton prodn. in bales of 170 Kg lint, Yield in Kgs/hect. S.cane yield in Tonnes/hect			
Crop	**KHARIF**		
	Area	**Prodn.**	**Yield**
Jowar	795	1391	1750
Maize	41853	159878	3820
Bajra	28804	38828	1348
M.Millets	1528		
Total Cereals:	**72980**	**200098**	**6918**
Tur	31174	34665	1112
Horsegram	628	251	400
Blackgram	1455	503	346
Greengram	31250	13031	417
Cowpea	10	4	392
Mothbean (Madake)	71	21	300
Total Pulses:	**64588**	**48477**	**2967**
Total Foodgrains:	**137568**	**248574**	**9885**
Groundnut	1233	1171	950

Sesamum	471	212	450
Sunflower	15279	13659	894
Soyabean	1901	2717	1429
Linseed	48	0	
Total Oilseeds:	**18932**	**17759**	**3723**
Commercial Crops:			
Cotton	627	3	5
Sugarcane Planted	8342	834	100
Sugarcane Ratoon	95220	7142	75
GRAND TOTAL	260689	274312	13788
		0	
Total Food Production	156500	266333	13608
Crop	**RABI**		
	Irrigated		
	Area	Prodn.	Yield
Jowar	98000	220500	2250
Maize	25400	105791	4165
Wheat	28000	44800	1600
Total Cereals:	**151400**	**371091**	**2451**
Bengalgram	109000	136250	1250
Total Pulses:	**109000**	**136250**	**1250**
Total Foodgrains:	**260400**	**507341**	**1948**
Sunflower	20100	25125	1250
Total Oilseeds:	**20100**	**25125**	**1250**
Commercial Crops:			
Sugarcane Planted	25000	2500000	100
GRAND TOTAL	280500	532466	4951
Crop	**SUMMER**		
	Irrigated		
	Area	Prodn.	Yield
Jowar	50	113	2250
Maize	3800	15200	4000
Total Cereals:	**3850**	**15313**	**3977**
Cowpea	700	420	600
Avare	100	70	700
Total Pulses:	**800**	**490**	**613**
Total Foodgrains:	**4650**	**15803**	**3398**
Groundnut	25000	31875	1275
Sunflower	3500	4375	1250
Total Oilseeds:	**28500**	**36250**	**1272**
Commercial Crops:			
Sugarcane Planted	2400	240000	100
GRAND TOTAL	36000		

Source: Dept of Agriculture, 2019-20 statistics

b. Area Production and productivity of Horticulture crops

Crop	Area	Production	Productivity
Mango	665.45	4672.98	43.53
Banana	1379.00	43737.00	171.80
Lime	361.70	6160.00	97.15
Guava	372.80	8402.80	125.00
Sapota	272.00	2686.00	58.00
Pomegranate	2911.00	33210.00	61.86
Papaya	455.00	32330.00	359.24
Grapes	3250.90	62485.20	102.81
Watermelon	520.00	24318.00	248.60
Turmeric	2599.60	10496.00	4.04

5. Weather data

Month	Rainfall(mm)	Temperature ˚C		Relative Humidity (%)	
		Maximum	Minimum	RH 1	RH 2
Jan-20	0	30.5	16.2	81	69
Feb-20	0	32.5	17.1	74	53
Mar-20	9.9	35.2	20.0	74	40
Apr-20	18.8	29.2	18.3	62	31
May-20	9.4	33.8	20.5	64	28
Jun-20	100.4	30.2	20.3	77	55
Jul-20	131.8	29.6	22.0	88	73
Aug-20	131.7	28.6	21.6	87	75
Sep-20	271	28.5	21.8	89	69
Oct-20	188.3	29.7	21.0	88	65
Nov-20	1.4	29.5	17.0	77	55
Dec-20	0	28.8	14.5	82	43
Total	**862.7**	**30.5**	**19.2**	**78**	**55**

Source: District Agromet Unit, KVK Bagalkot

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

Category	Population	Production	Productivity
Cattle			
Crossbred	223019	50000 tons	6.2 liters
Indigenous		19000 tons	2.26 liters
Buffalo	234727	77000 tons	3.12 liters
Sheep			
Crossbred	623211		15.23 kg, meat
Indigenous			
Goats	384471		0.6 litre, 14.730 kg, meat
Pigs			
Crossbred	-	-	-
Indigenous	20905	-	-

Rabbits	1394	-	-
Poultry			
Hens			
Desi	1835746	140 lakh (Eggs) & 73000 tons (Meat)	1.55 kg
Improved		1341 lakh (Eggs) & 73000 tons (Meat)	1.712 kg
Ducks	566	-	-
Turkey and others	3553	-	-

Category	**Area**	**Production**	**Productivity**
Fish	-	-	-
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

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

2.7 District profile maintained in the KVK has been Updated for 2020: 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 by Kvk**	**Major crops & enterprises**	**Major problem identified**	**Identified Thrust Areas**
1	**Hunagunda**	**Amingad**	**Benakanwari, Mangalgudda**	**Two years**	Sugarcane Maize Onion(K) Redgram Bajra Groundnut Chickpea wheat	**Sugarcane:** Low yielding varieties No intercropping in sugarcane No green manuring	Nutrient management in maize Varietal introduction in pulse and oilseed crops Pest and disease management in oilseeds and pulses
						Onion: Fungal Foliar Diseases Weed infestation	IPDM in onion
						Maize: Fall Army worm (FAW) Nutrient management	Fall Army worm Management Nutrient management

						Groundnut: Stem rot Leaf miner menace Low yield due to local variety	Varietal introduction Pest and disease management
						Chickpea: Root rot and wilt Lack of knowledge on nutrient management Lack of high yielding variety Lack of suitable variety for summer	ICM in Bengalgram Disease management in chickpea Assessment of suitable varieties in chickpea for summer
						Clusterbean: Lack of high yielding variety Nutrient management Pest and disease management	ICM in clusterbean with introduction of new variety
						Animal Husbandry Low milk yield (20%) Parasitic disease Unhygienic conditions in milk production Poor claves growth Imbalance nutrition on cattle and goat	Nutrition management in calves
						Home Science Lack of availability of green leafy vegetables throughout the year	Establishment of nutrigarden

2	**Bilagi**	**Anagwadi**	**Katarki Honaralli**	**Two years**	Sugarcane : Vegetable crops Maize: Onion Fodder Crops Backyard poultry Sheep and Goat rearing Animal husbandry	**Sugarcane** Mono cropping Root grub Striga Smut, Yellowing, Wooly aphid Soil salinity due to excess watering	Crop diversification (Intercropping in sugarcane) Soil salinity management
						Water and soil conservation Soil salinity No drip/ sprinkler irrigation	Soil salinity management
						Animal Husbandry Low milk yield (20%) Parasitic disease Unhygienic conditions in milk production Poor calves growth Imbalance nutrition on cattle and goat	Nutrition management Introduction of fodder crops
3	**Bagalkot**	**Bagalkot**	**Honnakatti, Bevinamatti, Mugalolli, Kirsur**	**Two years**	Sugarcane Maize Watermelon Banana Betelvine Groundnut Vegetables Onion Okra	**Sugarcane** Mono cropping and large area under cane Green manuring not practiced Low yield in cane due to Root grub, striga , borer infestation Lack of composting knowledge	Root grub management Composting technologies
						Maize Fall army worm in maize Indiscriminate use of fertilizers	FAW management
						Onion Foliar disease/onion twisting Weed menace Root grub menace	Weed management and Disease management

						Watermelon Viral and fungal diseases	Integrated disease management
						Radish Varietal Introduction	Varietal introduction
						Groundnut Stem rot Leaf minor menace	Stem rot and Leaf minor menace
						Ridge gourd Low yielding local variety, Pest and disease incidence	Introduction of new variety
						Chilli Low yielding local variety, Pest and disease incidence	Introduction of new variety
						Banana Nutrient deficiency Pest and disease problem	ICM in Banana
						Rabi sorghum Fall Army worm	FAW management
						Animal Husbandry Low milk yield (20%),Parasitic disease Unhygienic conditions in milk production Poor claves growth Imbalance nutrition on cattle and goat	Nutrition management
4	**Jamakhandi**	**Rabakavi-Banahatti**	**Navalagi, Hosur Jagadal**	**Two years**	Sugarcane	**Sugarcane** Low yield in cane due to Root grub,	Root grub management in sugarcane
					Maize	**Maize** Fall army worm and Pig problem in maize Indiscriminate use of fertilizers	FAW management
					Turmeric	**Turmeric** Rhizome rot	Rhizome rot management

					Animal Husbandry	**Animal Husbandry** Low milk yield (20%) Parasitic disease Unhygienic conditions in milk production Poor claves growth Imbalance nutrition on cattle and goat	Nutrition management Clean milk production
					Nutrigarden	Lack of knowledge on varieties of leafy and guard vegetables for year round availability of vegetables	Nutrigarden establishment

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.)
123	Badami	Badami	Mangalagudda	Managala	18050	7320	10730
	Badami	Badami	Mangalagudda	Padmavati	21000	3200	17800
	Badami	Badami	Mangalagudda	Shantavva Mensinkai	18000	7500	10500
1	Badami	Badami	Mangalagudda	Anupama Goudar	39000	5000	34000
2	Badami	Badami	Mangalagudda	Iramma Angadi	8000	6000	2000
3	Badami	Badami	Mangalagudda	Kasturi goudar	18000	6000	12000
4	Badami	Badami	Mangalagudda	Kavita Goudar	16000	10000	6000
5	Badami	Badami	Mangalagudda	Nilavva Chalageri	34000	13000	21000
6	Badami	Badami	Mangalagudda	Drupadi	18000	6700	11300
7	Badami	Badami	Mangalagudda	Shridevi Badigeri	25000	6200	18800
8	Badami	Badami	Mangalagudda	Gangavva Hugar	47000	20500	26500
9	Badami	Badami	Mangalagudda	Sharannavva Tuppad	37000	15000	22000
10	Bagalkot	Bagalkot	Honnakatti	Shivanna Lodavae	17000	13000	4000
11	Bagalkot	Bagalkot	Honnakatti	Basavaraj Walikar	115000	32000	83000
12	Bagalkot	Bagalkot	Honnakatti	Babanna Survaynsi	10000	9000	1000
13	Bagalkot	Bagalkot	Honnakatti	Basappa Ramthal	13000	12700	300
14	Bagalkot	Bagalkot	Honnakatti	Nagappa Walikar	8500	5000	3500
15	Bagalkot	Bagalkot	Honnakatti	Parasappa Hawaladar	11500	3000	8500
16	Bagalkot	Bagalkot	Honnakatti	Irappa Kyadad	72000	8000	64000
17	Bagalkot	Bagalkot	Honnakatti	Sabanna Dodamani	9000	8700	300

18	Bagalkot	Bagalkot	Honnakatti	Mutappa Shivappa	12000	6700	5300
19	Bagalkot	Bagalkot	Honnakatti	Hanumanth Goudar	14500	13700	800
20	Bagalkot	Bagalkot	Honnakatti	Basappa Dammur	15000	8000	7000
21	Bagalkot	Bagalkot	Honnakatti	Basappa Dammur	14000	10000	4000
22	Bagalkot	Bagalkot	Honnakatti	Maruti SuryaVanshi	8000	6500	1500
23	Bagalkot	Bagalkot	Honnakatti	Shivalingappa Talawar	9000	7500	1500
24	Bagalkot	Bagalkot	Honnakatti	Malappa karigoudar	14000	12500	1500
25	Bagalkot	Bagalkot	Honnakatti	Govindraj Mulugunda	9900	7600	2300
26	Bagalkot	Bagalkot	Honnakatti	Pakirappa Kyad	15400	6400	9000
27	Bagalkot	Bagalkot	Honnakatti	Yallappa Kydad	20000	12500	7500
28	Bagalkot	Bagalkot	Honnakatti	Shivalingappa Londve	14000	12000	2000
29	Bagalkot	Bagalkot	Honnakatti	Pundlik Hawaldar	19000	12000	7000
30	Bagalkot	Bagalkot	Honnakatti	Buddivant hiriyal	50000	30000	20000
31	Bagalkot	Bagalkot	Honnakatti	Huchhappa Walikar	50000	35000	15000
32	Bagalkot	Bagalkot	Honnakatti	Maruti Dammur	500000	300000	200000
33	Bagalkot	Bagalkot	Honnakatti	Basappa Londwae	200000	100000	100000
34	Bagalkot	Bagalkot	Honnakatti	Shridhar Shashidhar Suryavanshi	450000	150000	300000
35	Bagalkot	Bagalkot	Honnakatti	Siddalingappa davangere	150000	700000	800000
36	Bagalkot	Bagalkot	Honnakatti	Shreshailappa basappa davangere	500000	250000	250000
37	Bagalkot	Bagalkot	Honnakatti	Parashuram Davanagere	200000	800000	120000
38	Bagalkot	Bagalkot	Honnakatti	Ashok B suryavamshi	700000	400000	300000
39	Bagalkot	Bagalkot	Honnakatti	Bsavaraj Davangere	500000	200000	300000
40	Bagalkot	Bagalkot	Honnakatti	Vitthal mane	800000	500000	300000
41	Bagalkot	Bagalkot	Honnakatti	Ambaji Londwae	600000	350000	250000
42	Bagalkot	Bagalkot	Honnakatti	maruti basappa bevinmatti	500000	200000	300000
43	Bagalkot	Bagalkot	Honnakatti	Mahesh Naragund	350000	150000	200000
44	Bagalkot	Bagalkot	Honnakatti	Mahantesh mugalavali	100000	500000	500000
45	Bilagi	Bilagi	Kataraki	Siddayya Matapati	57200	36600	20600
46	Bilagi	Bilagi	Kataraki	Dareppa kerakalmatti	54741	44000	10741
47	Bilagi	Bilagi	Kataraki	Gangappa Uttur	33609	30000	3609
48	Bilagi	Bilagi	Kataraki	Shivalingappa Kerakalmatti	41583.33	24900	16683.33
49	Bilagi	Bilagi	Kataraki	Hanumanth Jadav	41933	36000	5933
50	Bilagi	Bilagi	Kataraki	Dariyappa Arakeri	123900	68000	55900
51	Bilagi	Bilagi	Kataraki	Nagappa Pujari	18707	13500	5207
52	Bilagi	Bilagi	Kataraki	Shankrappa Meti	26807	22300	4507
53	Bilagi	Bilagi	Kataraki	Gangappa Patil	61800	32500	29300
54	Bilagi	Bilagi	Kataraki	Chandra shekar goudar	18649	18000	649
55	Bilagi	Bilagi	Honaralli	Basavaraj Basegouda	9000	7500	1500
56	Bilagi	Bilagi	Honaralli	Ramanna Ganiger	15200	9000	6200

57	Bilagi	Bilagi	Honaralli	Ramanagouda Patil	42000	17900	24100
58	Bilagi	Bilagi	Honaralli	Shivappa Madar	11500	9100	2400
59	Bilagi	Bilagi	Honaralli	Shivappa	9100	7700	1400
60	Bilagi	Bilagi	Honaralli	Bimangouda	33700	9800	23900
61	Bilagi	Bilagi	Honaralli	Somappa Meti	20000	11700	8300
62	Bilagi	Bilagi	Honaralli	Hanamanth Kuri	50600	32601	17999
63	Bilagi	Bilagi	Honaralli	Rukmavva Madar	16700	61000	-44300
64	Bilagi	Bilagi	Honaralli	Yallappa Patil	7700	7200	500
65	Bilagi	Bilagi	Honaralli	Shivappa Bhagavati	30800	21000	9800
66	Bilagi	Bilagi	Honaralli	Shivappa Hosagol	45300	12500	32800
67	Bilagi	Bilagi	Honaralli	Muttangouda Patil	37500	22500	15000
68	Bilagi	Bilagi	Honaralli	Ningappa Meti	40000	20600	19400
69	Bilagi	Bilagi	Honaralli	Rangappa Kuri	28250	18500	9750
70	Bilagi	Bilagi	Honaralli	Sabanna Huded	28700	14600	14100
71	Bilagi	Bilagi	Honaralli	Hanmanth Meti	16500	8500	8000
72	Bilagi	Bilagi	Honaralli	Rudrappa Meti	10600	8300	2300
73	Bilagi	Bilagi	Honaralli	Yallappa Habbad	20500	12000	8500
74	Bilagi	Bilagi	Honaralli	Sangappa Badagi	20000	14500	5500
75	Bilagi	Bilagi	Honaralli	Maleyappa	35000	16400	18600
76	Bilagi	Bilagi	Honaralli	Mallappa Meti	22200	16800	5400
77	Bilagi	Bilagi	Honaralli	Siddarayappagouda Patil	20600	16700	3900
78	Bilagi	Bilagi	Katarki	Moulasab Nabisab Dandin	20000	15000	5000
79	Bilagi	Bilagi	Katarki	Sabusab Dandin	30000	20000	10000
80	Bilagi	Bilagi	Kataraki	Parasappa Meti	100000	500000	500000
81	Bilagi	Bilagi	Kataraki	Basappa kerakalmatti	400000	150000	250000
82	Bilagi	Bilagi	Katharaki	Vishvanath Angadi	255000	150000	105000
83	Bilagi	Bilagi	Katharaki	Krishnappa H. Baragi	370000	200000	175000
84	Bilagi	Bilagi	Katharaki	Siddappa Sullada	405000	285000	165000
85	Bilagi	Bilagi	Katharaki	Irappa sullada	390000	210000	180000
86	Bilagi	Bilagi	Katharaki	Hanamanth Naykar	210000	115000	95000
87	Bilagi	Bilagi	Katharaki	Mallikarjun Badiger	365000	220000	145000
88	Bilagi	Bilagi	Katharaki	Ramachar Kundargi	220000	110000	110000
89	Bilagi	Bilagi	Katharaki	Nilappa Balulad	280000	118000	162000
90	Bilagi	Bilagi	Katharaki	Vittal Kerakalamatti	250000	100000	150000
91	Bilagi	Bilagi	Katharaki	Basayya mathad	570000	300000	270000
92	Hunagund	Hunagund	Benakanawari	Sidappa Suled	63000	51500	11500
93	Hunagund	Hunagund	Benakanawari	Satyavva Madar	73000	26500	46500
94	Hunagund	Hunagund	Benakanawari	Hanamappa Madar	59000	26200	32800
95	Hunagund	Hunagund	Benakanawari	Yalaguradappa Golli	151000	5500	145500
96	Hunagund	Hunagund	Benakanawari	Ramappa Antaratani	50000	31500	18500
97	Hunagund	Hunagund	Benakanawari	Mallappa Golli	27000	12000	15000
98	Hunagund	Hunagund	Benakanawari	Hanamappa Kamatar	121500	78500	43000

99	Hunagund	Hunagund	Benakanawari	Siddappa Sullad	153000	82000	71000
100	Hunagund	Hunagund	Benakanawari	Ningappa Ihole	0	0	0
101	Hunagund	Hunagund	Benakanawari	Makashappa Sullad	0	0	0
102	Hunagund	Hunagund	Benakanawari	Masappa Kamatar	0	0	0
103	Hunagund	Hunagund	Benakanawari	Hanamappa Ihole	0	0	0
104	Hunagund	Hunagund	Benakanawari	Shivappa Antaratani	100000	74000	26000
105	Hunagund	Hunagund	Benakanawari	Shivappa Sullada	88000	77000	11000
106	Hunagund	Hunagund	Benakanawari	Gullappa Antaratani	81000	60000	21000
107	Hunagund	Hunagund	Benakanawari	Hanamappa Antaratani	0	0	0
108	Hunagund	Hunagund	Benakanawari	Siddappa Kamatar	0	0	0
109	Hunagund	Hunagund	Benakanawari	Tayavva Madar	51000	43000	8000
110	Hunagund	Hunagund	Benakanawari	Neelavva Madar	95000	72000	23000
111	Hunagund	Hunagund	Benakanawari	Yamanappa Madar	89000	70000	19000
112	Hunagund	Hunagund	Benakanawari	Yamanappa Madar	22000	23000	-1000
113	Hunagund	Hunagund	Benakanawari	Chennappa Angadi	89000	74000	15000
114	Hunagund	Hunagund	Benakanawari	Sangappa Bellad	97000	87000	10000
115	Hunagund	Hunagund	Benakanawari	Shivavva Sullad	99000	78000	21000
116	Hunagund	Hunagund	Benakanawari	Yalaguradagouda Goudar	120000	93000	27000
117	Hunagund	Hunagund	Benakanawari	Hanamanthagouda Goudar	103000	87000	16000
118	Hunagund	Hunagund	Benakanawari	Kuber Iholli	63000	40000	23000
119	Hunagund	Hunagund	Benakanawari	Basavaraj Iholli	58000	48000	10000
120	Hunagund	Hunagund	Benakanawari	Bassappa Angadi	121000	84000	37000
121	Hunagund	Hunagund	Benakanawari	Sangappa Angadi	83000	59000	24000
122	Hunagund	Hunagund	Benakanawari	Manjunath Antaratani	79000	57000	22000
123	Hunagund	Hunagund	Benakanawari	Satyappa Gaddad	105000	72000	33000
124	Hunagund	Hunagund	Benakanawari	Siddapa Antaratani	76000	66000	10000
125	Hunagund	Hunagund	Benakanawari	Ramappa Kotagi	79000	55000	24000
126	Hunagund	Hunagund	Benakanawari	Laxman walikar	68000	63000	5000
127	Hunagund	Hunagund	Benakanawari	Siddapa Antaratani	88000	53000	35000
128	Hunagund	Hunagund	Benakanawari	Hanamappa Sullad	38000	34000	4000
129	Hunagund	Hunagund	Benakanawari	Nagappa Antaratani	74000	48000	26000
130	Hunagund	Hunagund	Benakanawari	Siddalingappa Antaratani	38000	32000	6000
131	Hunagund	Hunagund	Benakanawari	Ramappa Sulled	56000	45500	10500
132	Hunagund	Hunagund	Benakanawari	Hanamappa Walikar	86000	56002	29998
133	Hunagund	Hunagund	Benakanawari	Sannahanumappa Golli	49000	38000	11000
134	Hunagund	Hunagund	Benakanawari	Fakirappa Walikar	91000	52000	39000
135	Hunagund	Hunagund	Benakanawari	Makashappa Sullad	89000	68500	20500
136	Hunagund	Hunagund	Benakanawari	Hanamappa Walikar	72000	56500	15500
137	Hunagund	Hunagund	Benakanawari	Yallappa Madar	66500	47500	19000
138	Hunagund	Hunagund	Benakanawari	Siddappa Walikar	79000	56000	23000
139	Hunagund	Hunagund	Benakanawari	Sangappa Kamatar	116200	76000	40200

140	Hunagund	Hunagund	Benakanawari	Hanamappa Antartal	124500	98000	26500
141	Hunagund	Hunagund	Benakanawari	Basavva Suled	69500	45000	24500
142	Hunagund	Hunagund	Benakanawari	Satyavva (Hosamani)Madar	100000	60000	40000
143	Hunagund	Hunagund	Benakanawari	Chinnappa Bellad	120000	100000	20000
144	RB' Hatti	RB' Hatti	Navalagi	Basappa Sheshageri	72000	35000	37000
145	RB' Hatti	RB' Hatti	Navalagi	Barmesh Tungal	535000	260000	275000
146	RB' Hatti	RB' Hatti	Navalagi	Gurulingappa Hippragi	48000	22900	25100
147	RB' Hatti	RB' Hatti	Navalagi	Sachin Magdum	228000	145000	83000
148	RB' Hatti	RB' Hatti	Navalagi	Jagadish Meni	311100	108000	203100
149	RB' Hatti	RB' Hatti	Navalagi	Mallappa Magadum	233000	115000	118000
150	RB' Hatti	RB' Hatti	Navalagi	Yamanappa Akkikichadi	269000	115000	154000
151	RB' Hatti	RB' Hatti	Navalagi	Prakash Teli	265000	140000	125000
152	RB' Hatti	RB' Hatti	Navalagi	Shivalingappa Unki	215000	145000	70000
153	RB' Hatti	RB' Hatti	Navalagi	Gurulingappa Hipparagi	195000	135000	60000
154	RB' Hatti	RB' Hatti	Navalagi	Dundappa Mitti	193000	140000	53000
155	RB' Hatti	RB' Hatti	Navalagi	Baslingapp parit	206000	130000	76000
156	RB' Hatti	RB' Hatti	Navalagi	Venkappa Dingasani	244000	120000	124000
157	RB' Hatti	RB' Hatti	Navalagi	Prabhu Meligeri	1500000	505000	995000
158	RB' Hatti	RB' Hatti	Navalagi	Channmallyya Ganachari	297000	120000	177000
159	RB' Hatti	RB' Hatti	Navalagi	Ningappa Goudappanavar	236000	133000	103000
160	RB' Hatti	RB' Hatti	Navalagi	Yalappa Guravva	150000	104000	46000
161	RB' Hatti	RB' Hatti	Navalagi	Sangappa Goti	250000	100000	150000
162	RB' Hatti	RB' Hatti	Navalagi	Basavaraj Bujarack	250000	100000	150000
163	RB' Hatti	RB' Hatti	Navalagi	Yankappa Unki	400000	105000	295000
164	RB' Hatti	RB' Hatti	Navalagi	Shobha Teli	232000	146000	86000
165	RB' Hatti	RB' Hatti	Navalagi	Kenchappa tungal	280000	134000	146000
166	RB' Hatti	RB' Hatti	Navalagi	Manjunath onki	512000	230000	282000
167	RB' Hatti	RB' Hatti	Navalagi	Krishna Ningasani	435000	239000	196000
168	RB' Hatti	RB' Hatti	Navalagi	Hanamanth Shivapur	356000	198000	158000
169	RB' Hatti	RB' Hatti	Navalagi	Basappa shivapur	395000	164000	231000
170	RB' Hatti	RB' Hatti	Navalagi	Shrishail shivapur	328000	158000	170000
171	RB' Hatti	RB' Hatti	Navalagi	Basappa shegunashi	695000	365000	330000
172	RB' Hatti	RB' Hatti	Navalagi	Shivanand Mudasi	283000	159000	124000
173	RB' Hatti	RB' Hatti	Navalagi	Shankrayya hiremath	221000	110000	111000
174	RB' Hatti	RB' Hatti	Navalagi	Bharti Mannannawar	163000	95000	68000
175	RB' Hatti	RB' Hatti	Navalagi	Suresh Shivapur	295000	165000	130000
176	RB' Hatti	RB' Hatti	Navalagi	Gurulingappa Shivapur	28600	13500	15100
177	RB' Hatti	RB' Hatti	Navalagi	Mallappa kanti	219400	51000	168400
178	RB' Hatti	RB' Hatti	Navalagi	suresh pattanshetty	390000	85000	305000
179	RB' Hatti	RB' Hatti	Navalagi	Prabhavati hiremath	31900	11100	20800

180	RB' Hatti	RB' Hatti	Navalagi	Shivanappa Hanaganol	194000	94000	100000
181	RB' Hatti	RB' Hatti	Navalagi	Basappa S maghadabad	195000	125000	70000
182	RB' Hatti	RB' Hatti	Navalagi	sadashiv	195300	89000	106300
183	RB' Hatti	RB' Hatti	Navalagi	Sujata Shegunsi	28900	14000	14900
184	RB' Hatti	RB' Hatti	Navalagi	Shivavva Shivapur	264000	133000	131000
185	RB' Hatti	RB' Hatti	Navalagi	Dayanand Hiremat	280000	107000	173000
186	RB' Hatti	RB' Hatti	Navalagi	Dundappa Kanti	287000	93000	194000
187	RB' Hatti	RB' Hatti	Navalagi	Shakuntala Timmapaur	227000	77500	149500
188	RB' Hatti	RB' Hatti	Navalagi	Vittal Kanti	356000	95000	261000
189	RB' Hatti	RB' Hatti	Navalagi	Ningappa Kanti	151000	56000	95000
190	RB' Hatti	RB' Hatti	Navalagi	Irappa Timmapur	111600	34000	77600
191	RB' Hatti	RB' Hatti	Navalagi	Adiveppa Mugalkod	258000	110000	148000
192	RB' Hatti	RB' Hatti	Navalagi	Laxman Biradi	513000	108000	405000
193	RB' Hatti	RB' Hatti	Navalagi	Bagavva Kanti	324000	107000	217000

2.10 **Priority thrust areas**

S. No	Thrust area
1	Root grub management in sugarcane, Soil salinity management, Composting technologies in sugarcane
2	FAW management in maize and rabi sorghum
3	Weed management and Disease management in onion
4	Introduction of new varieties in vegetables, pulse (Chickpea and Pigeon pea) and oilseed crops
5	ICM in Banana
6	Nutrition management in livestock, Establishment of nutrigarden for farm families
7	Crop diversification (Intercropping) and Soil salinity management in sugarcane
8	Assessment of knowledge and adoption in Nutrient management in maize Pest and disease management in turmeric, oilseeds and pulses (Root rot and wilt in chickpea)
9	Introduction of fodder crops and Clean milk production

PART III - TECHNICAL ACHIEVEMENTS (2020)

3.A. Target and Achievements of mandatory activities

OFT				**FLD**			
1				**2**			
OFTs (No.)		**Farmers (No.)**		**FLDs (No.)**		**Farmers (No.)**	
Target	**Achievement**	**Target**	**Achievement**	**Target**	**Achievement**	**Target**	**Achievement**
5	5	24	24	22	22	120	120

Training				**Extension Programmes**			
3				**4**			
Courses (No.)		**Participants (No.)**		**Programmes(No.)**		**Participants (No.)**	
Target	**Achievement**	**Target**	**Achievement**	**Target**	**Achievement**	**Target**	**Achievement**
100	106	4000	4019	3879	3879	5711	5711

Seed Production (Q)		Planting material (Nos.)	
5		6	
Target	**Achievement**	**Target**	**Achievement**
100.62	**100.62**	2830	2830

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	**Achievement**	**Target**	**Achievement**
-	2 goats	885	885
-	45 birds		

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
1	Disease management	Turmeric	Rhizome rot	Management of Rhizome rot in turmeric	-	1	-	-	5	Captan 50 WP @3 kg Copper Oxy Chloride 50 WP @3 kg Lime @3 kg Metalaxyl 35 WS @3 kg Mancozeb 80 WP @3 kg	-	-	2	18
2	Trash management	Sugarcane	Trash burning and soil degradation	Assessment of different compost culture in sugarcane trash decomposition	-	-	-	-		Waste decomposer			0	Compost culture 3 Kg
3	Pest management	Sugarcane	Root grub menace	Assessment of bio pesticide for Root grub management in Sugar cane	-	-	-	-	-			-		Metarhizium anisopliae, @2.5kg/ac Application of Hetrorabditis indica @4kg/ac

4	Assessment of performance of breed	Poultry	Local ND poultry birds give less eggs and low bodyweight gain & quality meat, Less profit	Evaluation of performance of Kadaknath birds with other poultry birds	-	02	01	-	-	Three weeks old chicks Vaccines& Medications Three weeks old chicks Vaccines and Medications		60		-
5	Crop diversification	Sugarcane	Cultivation of sole crop Non utilization of inter-space	Assessment of pulse performance as intercrop in sugarcane	-	-	-	-	-	Cowpea (DC-15)-25 kg JAKI-9218- 25 kg			2	5
6	Varietal introduction	Groundnut	Old varieties with low yielding capacity	-	Demonstration of Dh-256 HYV Groundnut	1	-	-	-	Seeds (Dh-256) 300 kg				
7	Varietal introduction	Chickpea	Non availability of suitable varieties for late sown condition in Rabi	-	Demonstration of heat tolerant variety JG-14 for late sowing condition under irrigationsituation	1	-	-	-	Seeds (JG-14) 150 Kg				10 kg
8	Crop diversification	Cotton	Repeated cultivation of sugarcane, low productivity due to striga	-	Introduction of cotton-cowpea as an alternate cropping system for sugarcane	2	-	-	-	Cotton (Ajeet-155) 4.50 g g Cowpea (DC-15) 25 kg			0	0
9	Soil fertility management	Sugarcane	Less use of organic manures, Indiscriminate use of NPK fertilizers		Demonstration of *Insitu Green manuring* in sugar cane	1	-	-	-	Sunhemp/Dhaincha seeds (24 kg/ac)			0	0

10	Farm Mechanization	Suagarcane	Labour scarcity in harvesting and high cost in harvesting		Demonstration of Mechanical harvesting of Sugarcane	-	-	-	-				-	-
11	Root grub problem	Sugarcane	Root grub infestation causing yield loss (30%)		Management of rootgrub in Sugarcane	1	-	-	-	Metarhizium anisopliae,			2	50
12	Pest and disease management	Groundnut	Low yield due to stem rot and leaf minor minor incidence (30-35%)		Management of Stem rot and leaf minor in Ground nut	1	-	-	-	Trichoderma h. @ 5g/kg Drenching of Tebuconozole @ 1ml/lit and spraying of Profenophos				30
13	Disease management	Chickpea	Low yield due wilt and root rot disease		Management of wilt & root rot in chickpea	1	-	-	-	Enriched *Trichoderma harzianum* with FYM @ 4kg/acre Seed Carbondizim @ 2g/kg				40 kg
14	Value addition	Pulses	Low profitability		EDP on value addition	-	-	-	-					
15	Disease management	Watermelon	Low yield due to powdery and downy mildew diseases, viral diseases		Integrated disease management in water melon	1	-	-	-	Arka vegetable special @ 5 g/l Fipronil 1 ml/l sticky traps @ 40 /ac yellow and 40/ac blue Metalaxyl + mancozeb 2 g/l Propiconozole @ 1ml/lit				15 kg pseudomonas 115 kg trichoderma
16	Disease management	Grapes	Powdery mildew and downy mildew disease in grapes		Management of Powdery Mildew & downy mildew in grapes	3	-	-	-	Sulphur 80 WG Pseudomonas Mancozeb 64 WG +Metalaxyl 4 WG *fluorescens*				15 kg pseudomonas 115 kg trichoderma
17	Pest management	Sorghum	Poor yield due to leaf and whorl feeding of fall army worm		Management of fall army worm in Rabi Sorghum	-	-	-	-	Imamectin Benzoate@0.3 g/lt				

18	Varietal introduction	Okra	Low yield due to non availability of high yielding variety, pest and disease incidence		Introduction of new high yielding okra – Arka Nikhita	-	-	-	Field visit-7	6.0 kg				
19	ICM and Varietal introduction	Clusterbean	Varietal trial with ICM		Integrated crop management on cluster bean Pusa Navbahar	-	-	-	Field visit-8	15 kg				
20	Fertility management	Sheep and goat rearing	Non synchronization of estrus leading to less frequency in kidding		Demonstration of Indigenous Progesterone sponge in Synchronization of estrous in Sheep & Goat	-	-	-		Deworming (1) Mineral mixture (3) Progesterone Sponge, Speculum and Plunger(10)				
21	Nutrition management	Dairy	Low milk yield Local variety of fodder Anoestrus in dairy animals		Supplementation of By pass fat for higher milk yield & fat in diary animals	1	-	-		Bypass Fat – 6kg / Animal UMMB - 5kg /Animal				
22	Health Management	Sheep and goat	Disease menace Poor Health management Infertility		Demonstration of Integrated health management in Sheep & Goat	-	-	-		Fenbendazole + praziquental - 500ml Immuno booster syrup – 500ml Vitamin syrup -10ml/day -500ml Mineral syrup- 10ml/day - 500ml (Zn,Cu,chelated Ca & Mg)				
23	Fertility management	Dairy	Low milk yield Local variety of fodder Anoestrus in cattle and buffaloes		Management of anoestrus in Cattle & Buffalo	-	-	-		Deworming tab/syrup 200ml Chelated mineral mixture 5 kg Multivitamin injection 3 vial (each 10ml)				

24	Disease management	Pomegranate	Wilt problem in pomegranate		Demonstration on wilt Management	-	-	-	-	Trichoderma,Psuedomonas Paeceilomyces				45 kg
25	Varietal introduction	Radish	Use of local variety		Demonstration of high yielding radish variety Arka Nishant	02	1	1	Field visit-8	7.5 kg				
26	Weed management	Onion	Weed menace		Demonstration of weed management in Onion (2020-21)	-	0	-	Field visit-12	10 kg of Oxyflurofen as post emergent				
27	Pest management	Maize	FAW infestation		Management of Fall Army worm in Maize (20-21)	02	-	-	-	Imamectin Benzoate@0.3 g/lt Traps				

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1	Rhizome rot management in turmeric	TNAU, Coimbatore	Turmeric	1	-	1	35
2	Compost culture in sugarcane trash decomposition	NCOF Ghaziabad	Sugarcane	1	-	-	
3	Assessment of bio pesticide for Root grub management in Sugar cane	NBAIR,Bengaluru	Sugarcane	1	-	-	
4	Evaluation of performance of Kadaknath birds with other poultry birds	KVK, Jhabua,Madhya Pradesh	Poultry	1	-	3	8
5	Pulse performance as intercrop in sugarcane	IIT Kanpur	Sugarcane	1	-	-	
7	Dh-256 high Yielding Groundnut Variety	UAS Dharwad	Groundnut	-	1	-	
8	Heat tolerant variety JG-14 for late sowing condition under irrigated situation	UAS Raichur	Chickpea	-	1	-	
9	cotton-cowpea as an alternate cropping system for sugarcane	UAS Dharwad	Cotton	-	1	-	
10	*Insitu Green manuring* in sugar cane	UAS Dharwad	Sugarcane	-	1	-	
11	Mechanical harvesting of Sugarcane	UAS Dharwad	Suagarcane	-	1	-	
12	Management of rootgrub in Sugarcane	UAS Dharwad	Sugarcane	-	1	-	
13	Management of Stem rot and leaf minor in Ground nut	UAS Dharwad	Groundnut	-	1	1	50
14	Management of wilt & root rot in chickpea	UAS Dharwad	Chickpea	-	1	1	35
15	EDP on value addition	UAS Dharwad	Pulses	-	1	-	
16	Integrated disease management in water melon	UHS Bagalkot	Watermelon	-	1	1	45
	Management of Powdery Mildew & downy mildew in grapes	NRC Grapes, Pune	Grapes	-	1	3	26
17	Fall army worm in Rabi Sorghum	ICAR/UASD	Sorghum	-	1	-	

18	High yielding okra – Arka Nikhita	IIHR, Bengaluru	Okra		1	-	18
19	ICM and varietal introduction- cluster bean Pusa Navbahar	ICAR-IARI, New Delhi & UHSB	Clusterbean	-	1	-	22
20	Indigenous Progesterone sponge in Synchronization of estrous in Sheep & Goat	CSWRI, Avikanagar	Sheep and goat rearing	-	1	-	3
21	By pass fat for higher milk yield & fat in diary animals	KVAFSU, Bidar	Dairy	-	1	1	5
22	Integrated health management in Sheep & Goat	KVAFSU, Bidar	Sheep and goat	-	1	-	5
23	Management of anoestrus in Cattle & Buffalo	KVAFSU, Bidar	Dairy	-	1	-	6
24	Demonstration on wilt Management in Pomegranate	NRC Pomegranate , Solapur	Pomegranate	-	1	-	
25	High yielding radish variety Arka Nishant	IIHR, Bengaluru	Radish	-	1	2	18
26	Weed management in Onion (2020-21)	UAS Dharwad	Onion	-	1	-	
27	Management of Fall Army worm in Maize (20-21)	ICAR/UASD	Maize	-	1	2	52

3.B2 contd..

	No. of farmers covered															
	OFT				**FLD**				**Training**				**Others (Specify)**			
	General		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**		**General**		**SC/ST**	
	M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**
	9	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Rhizome rot management in turmeric	03	00	00	00	05	00	00	00	04	01	02	01	4	2	02	02
Compost culture in sugarcane trash decomposition	06	01	03	00	00	00	00	00	05	02	02	01	06	02	04	00
Assessment of bio pesticide for Root grub management in Sugar cane	02	00	01	00	00	00	00	00	10	15	4	16	40	8	30	00

Evaluation of performance of Kadaknath birds with other poultry birds	02	00	02	00	00	00	00	00	05	00	04	00	5	00	04	00
Pulse performance as intercrop in sugarcane	02	00	01	00	00	00	00	00	24	09	05	02	00	00	00	00
Dh-256 high Yielding Groundnut Variety	00	00	00	00	05	00	04	01	06	00	00	00	10	05	05	00
Heat tolerant variety JG-14 for late sowing condition under irrigated situation	00	00	00	00	05	00	00	00	06	02	02	00	10	05	05	00
cotton-cowpea as an alternate cropping system for sugarcane	00	00	00	00	04	00	01	00	21	00	01	25	5	8	8	7
Insitu Green manuring in sugar cane	00	00	00	00	06	02	02	00	12	5	8	2	6	9	5	7
Mechanical harvesting of Sugarcane	00	00	00	00	06	02	02	00	15	6	3	1	0	0	0	0
Management of rootgrub in Sugarcane	00	00	00	00	06	03	00	07	0	26	12	5	0			
Management of Stem rot and leaf minor in Ground nut	00	00	00	00	00	02	08	00	00	00	12	00	50	00	25	00
Management of wilt & root rot in chickpea	00	00	00	00	08	02	02	00	22	00	04	00	11	00	15	00
EDP on value addition	00	00	00	00	06	02	02	00	00	00	00	00	00	00	00	00
Integrated disease management in water melon	00	00	00	00	05	00	00	00	00	00	10	00	15	00	12	00
Management of Powdery Mildew & downy mildew in grapes	00	00	00	00	00	00	05	00	150	00	08	00	00	42	19	18
Fall army worm in Rabi Sorghum	00	00	00	00	06	08	01	01	0	56	5	5	7	25	2	4
High yielding okra – Arka Nikhita	00	00	00	00	05	00	00	00	19	00	6	00	31	00	08	00
ICM and varietal introduction- cluster bean Pusa Navbahar	00	00	00	00	05	00	00	00	00	00	00	00	34	00	10	00
Indigenous Progesterone sponge in Synchronization of estrous in Sheep & Goat	00	00	00	00	01	00	01	01	0	0	0	0	2	4	00	00
By pass fat for higher milk yield & fat in diary animals	00	02	00	00	06	02	02	00	15	05	00	00	00	00	18	12
Integrated health management in Sheep & Goat	00	00	00	00	03	00	05	02	00	00	05	00	08	00	00	00
Management of anoestrus in Cattle & Buffalo	00	00	00	00	06	00	02	02	00	00	00	05	08	00	11	00

Demonstration on wilt Management in Pomegranate	00	00	00	00	00	00	05	00	50	00	00	00	0	00	35	00
High yielding radish variety Arka Nishant	00	00	00	00	02	00	03	00	37	00	7	00	25	00	10	00
Weed management in Onion (2020-21)	00	00	00	00	04	01	04	01	11	0	9					
Management of Fall Army worm in Maize (20-21)	00	00	00	00	05	00	05	00	26	4	3	7	2	4	1	0

PART IV - On Farm Trial (2020)

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management				1						1
Integrated Disease Management								1		1
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology				2						2
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total				**03**				**01**		**4**

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	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	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds		**1**				**1**
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL		1				**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					
Integrated Pest Management	Sugarcane	Assessment of bio pesticide for Root grub management in Sugar cane	03	03	
Integrated Crop Management	Sugarcane	Assessment of pulse performance as intercrop in sugarcane	03	03	
Integrated Disease Management	Turmeric	Management of Rhizome rot in turmeric	05	05	
Small Scale Income Generation Enterprises					
Weed Management					
Resource	Sugarcane	Assessment of different compost	10	05	

Conservation Technology		culture in sugarcane trash decomposition (R/S)			
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

4.B.2. Technologies Refined under various Crops

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	Kadaknath breeds	Evaluation of performance of Kadaknath birds with other poultry birds	3	3
Nutrition management				
Disease management				
Value addition				
Production and management				
Feed and fodder				
Small scale income generating enterprises				
Total				

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

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

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

10	Agroforestry management				
11	Mechanization				
12	Resource conservation technology				
13	Value Addition				
14	Others				

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

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

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	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
1. Turmeric	**Irrigated**	**Low yield in turmeric due to Rhizome rot**	**Management of rhizome rot in turmeric**	**5**	TO1: Rhizome treatment with Captan 50 WP@ 3g/Kg Drenching Bordeaux Mixture @ 1% on the onset of disease	Farmer Practice	41.8	q/ha	PDI 38.31%	330850	210526.7	2.74
					TO2: Rhizome treatment with Captan 50 WP@ 3g/Kg Drenching Bordeaux Mixture @ 1% on the onset of disease Drenching of (Metalaxyl 35 WS+Mancozeb 80 WP) @ 2g/lit on the onset of disease	UAS, Bengaluru	46.05	q/ha	PDI 33.10%	363750	253183.3	3.28
					TO3: Soil Application of Trichoderma harzianum @ 2.5kg/acre + Pseudomonas fluorescens @ 2.5kg/acre Rhizome treatment with Copper Oxy Chloride 50 WP @ 3g/Kg Drenching of (Metalaxyl 35 WS+Mancozeb 80 WP) @ 2g/lit on the onset of the disease	Source: TNAU, Coimbatore	52.18	q/ha	PDI 25.13%	412200	309950	4.03

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Management of rhizome rot in turmeric	Rhizome rot management with bioagents was economically profitable to farmers, accessibility to bioagents at local level is a constraint	Awareness creation at large scale is needed

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

1. **Title of Technology Assessed** : Management of rhizome rot in turmeric
2. **Performance of the Technology on specific indicators:** Soil Application of Trichoderma @ 2.5kg/acre + Pseudomonas @ 2. 5kg/ac Rhizome treatment with COC 50 WP @ 3g/Kg and Drenching of (Metalaxyl 35 WS+Mancozeb 80 WP) @ 2g/lit on the onset of the disease as TO3 was found good in preventing the rhizome rot disease
3. **Specific Feedback from farmers:** TNAU technology was helpful in reducing the disease and increasing the yield
4. Specific Feedback from Extension personnel and other stakeholders: Rhizome rot management with bioagents was economically profitable to farmers
5. **Feedback to Research System based on results/feedback received:** There is need to simplify the no of sprays and easy method of finding out rot initiation need to be developed/disseminated.
6. **Feedback on usefulness and constraints of technology:** Rhizome rot management with bioagents was economically profitable to farmers, accessibility to bioagents at local level is a constraint

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	**5**	6	7	8	9	10	11	12	13
2. Sugarcane	**Irrigated**	**Low organic matter in soil due to trash burning ,slow decomposition of trash High cost on fertilizers**	**Assessment of different compost Cultures in Sugarcane trash decomposition**	**10**	TO 1:Retention of Sugarcane trash/residue.	FP	99.4	t/ha	0.40	238500	159921	3.03
					TO 2:Appln. of compost culture @6kg/ac to residue	UASD	105.9	t/ha	0.43	254100	174721	3.21
					TO 3:Appln. of waste decomposer @200lit/ac (prepared solution)to residue	NCOFG	109.50	t/ha	0.43	262800	183021	3.30

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of different compost Cultures in Sugarcane trash decomposition	Waste decomposer is a good and economically affordable media to all the farmers. It is difficult to apply waste decomposer uniformly to the fields in large areas where sprinkler irrigation is adopted	Uniform application of waste decomposer needs flood irrigation. Repeated multiplication of the same culture is said to be not much efficient Waste decomposer culture is not available in local fertilizer shops.

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

1. **Title of Technology Assessed :** Assessment of different compost Cultures in Sugarcane trash decomposition
2. **Performance of the Technology on specific indicators:** Waste decomposer enhances composting of trash and increases organic carbon content of soil
3. **Specific Feedback from farmers:** maintaining optimum soil moisture requires more labours and even distribution of waste decomposer is difficult
4. **Specific Feedback from Extension personnel and other stakeholders:** Waste decomposer can be promoted in other crops also apart from sugarcane,
5. **Feedback to Research System based on results/feedback received:** impact of waste decomposer on yield of ratoon crop could be studied and soil parameters could be studied.
6. **Feedback on usefulness and constraints of technology:** Waste decomposer is a good and economically affordable media to all the farmers. It is difficult to apply waste decomposer uniformly to the fields in large areas where sprinkler irrigation is adopted

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	**5**	6	7	8	9	10	11	12	13
3. Sugarcane	**Irrigated**	**Rootgrub Managementin Sugarcane**	**Assessment of Bio-pesticides for Root grub *(Holotrichia spp)* management in Sugarcane**	**3**	T.O.1 (Farmers practice)	FP	91.67	t/ha	3.20	220000	12378	2.28
					T.O.2:Application of *Metarhizium anisopliae* @5kg/acre	UAS Dharwad	105.83	t/ha	1.33	254000	162333	2.77
					T.O.3:Application of EPN (*Hetrorhabditis indica* @3-4 kg/acre	NBAIR, Bengaluru	102.08	t/ha	1.93	245000	152708	2.65

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of Bio-pesticides for Root grub (Holotrichia spp) management in Sugarcane	Metarrhizium is better option to root grub management when compared to EPN. Commercially available bioagents to manage root grub are costly.	Farmers find it difficult to make culture with bioagents and allow it to multiply in compost and application to the main field. Improper application of metarrhizium is ineffective, and improper time of application is ineffective as farmers approach KVK when the grub outbreak is already visible.

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

1. **Title of Technology Assessed /Refined:** Assessment of Bio-pesticides for Root grub (Holotrichia spp) management in Sugarcane
2. **Performance of the Technology on specific indicators:** Performance of the Technology(To.3) in Farmers field is good
3. **Specific Feedback from farmers :** Application of Metarhizium anisopliae @5kg/acre was given better rootgrub control than EPN and farmers practice
4. **Specific Feedback from Extension personnel and other stakeholders;** JAKI-9218 well suited for rainfed as well as irrigated condition
5. **Feedback to Research System based on results/feedback received:** Application of Metarhizium anisopliae @5kg/acre was given better rootgrub control then EPN and farmers.
6. **Feedback on usefulness and constraints of technology:** Metarrhizium is better option to root grub management when compared to EPN. Commercially available bioagents to manage root grub are costly.

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / 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. Poultry	**Backyard rearing**	**Local ND poultry birds give less eggs and low bodyweight gain & quality meat, Less profit**	**Evaluation of performance of Kadaknath birds with other poultry birds**	**3**	T.O.1 ND poultry birds (Farmers practice)	FP	1.1-1.2(Mean body wt.after20 week)	Kg/bird	-	3600	2600	3.6
					T.O.2:Swarnadhara	UAS Dharwad	2.5-3.2(Mean body wt.after20 week)	Kg/bird	-	9600	7600	4.8
					T.O.3:Kadaknath	KVK, Jhabua,MP	1.3(Mean body wt.after20 week)	Kg/bird	-	7800	2200	1.39

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Evaluation of performance of Kadaknath birds with other poultry birds	Kadaknath birds are adoptable to any situation, but slow gain in body weight and ferocious	Black meat is not readily acceptable as in case of local birds and Kadaknath birds are not easily available in market, and are slow weight gainers when compared to Giriraj and other cross breeds

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

1. **Title of Technology Assessed :** Evaluation of performance of Kadaknath birds with other poultry birds
2. **Performance of the Technology on specific indicators:** Body weight of the birds in TO3 was not satisfactory as compared to TO1 and TO2.
3. **Specific Feedback from farmers:** Farmers may go for rearing of Giriraja and swarndhara instead of Kadaknath
4. **Specific Feedback from Extension personnel and other stakeholders:** Slow body weight gain and ferocious nature of bird is not acceptable by the farming community.
5. **Feedback to Research System based on results/feedback received: -**
6. **Feedback on usefulness and constraints of technology:** Kadaknath birds are adoptable to any situation, but slow gain in body weight and ferocious

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	**5**	6	7	8	9	10	11	12	13
5. Sugarcane	**Irrigated**	**Cultivation of sole crop Non utilization of inter-space**	**Assessment of pulse performance as intercrop in Sugarcane**	**3**	TO1: Sole crop of Sugarcane	FP	111.67	t/ha	-	251250	111917	1.80
					TO 2: Sugarcane + Cowpea	TNAU	122.64	Crop Equivalent Yield (t/ha)	-	275948	131390	1.91
					TO 3: Sugarcane + Chickpea	IIT, Kanpur	127.73	Crop Equivalent Yield (t/ha)	-	287400	141604	1.97

4. C2. Feedback on technologies assessed

Name of technology assessed	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Assessment of pulse performance as intercrop in sugarcane	Both cowpea and chickpea are suitable for cultivation as an intercrops in sugarcane. Farmers find it difficult to adopt s it hinders the inter cultivation operations for sugarcane.	Farmer find it difficult to intercultivate and feel it is labour intensive

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

1. Title of Technology Assessed : Assessment of pulse performance as intercrop in sugarcane

2. Performance of the Technology on specific indicators: -
3. Specific Feedback from farmers : Both cowpea and chickpea are suitable for cultivation as an intercrops in sugarcane
4. Specific Feedback from Extension personnel and other stakeholders: Chickpea is profitable intercrop in sugarcane
5. Feedback to Research System based on results/feedback received: -
6. Feedback on usefulness and constraints of technology: Both cowpea and chickpea are suitable for cultivation as an intercrops in sugarcane. Farmers find it difficult to adopt s it hinders the inter cultivation operations for sugarcane.

4.D1. Results of Technologies Refined

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

4. D2. Feedback on technologies refined

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

4.D.2. Details of Technologies refined:

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

PART V - FRONTLINE DEMONSTRATIONS (2020)

5.A. Summary of FLDs implemented

Sl. No.	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ST	Others	Small/ Marginal	Others
	Oilseeds	Irrigated	Rabi/summer	Groundnut	Variety Dh-256	-	Varietal introduction	Demonstration of Dh-256 high Yielding Groundnut Variety	2	2			5	
		Irrigated	Rabi/summer	Groundnut	Variety Dh-256	-	Pest and disease management	Management of Stem rot and leaf minor in Ground nut	10	4		10	10	-
	Pulses	Irrigated	Rabi/summer	Chickpea	Variety JG-14	-	Varietal introduction	Demonstration of heat tolerant variety JG-14 for late sowing condition under irrigated situation	10	4	10	-	10	
		Irrigated	Rabi/summer	Chickpea	Variety JG-14	-	Disease management	Management of wilt & root rot in chickpea	10	4	10	-	10	-

	Cereals	Rainfed/Irrigated	Kharif	Maize		Private Hybrid	IPM	Fall armyworm Management in Maize	4ha	4ha	5	5	9	1
		Rainfed	Rabi	Sorghum	M35-1		IPM	Fall armyworm Management in Sorghum	4ha	4 ha	7	3	8	2
	Millets													
	Vegetables	Irrigated	Rabi	Okra	Arka-Nikita	-	Varietal introduction	Introduction of new high yielding okra – Arka Nikhita	2	2	0	5	5	-
		Irrigated	Rabi	Clusterbean	Pusa Navbahar	-	Varietal introduction	Integrated crop management on cluster bean	1	1	0	5	5	-
		Irrigated	Rabi	Radish	Arka Nishant	-	Varietal introduction	Demonstration of high yielding radish variety	0.5	0.5	3	2	5	-
		Irrigated	Kharif	Onion	Arkakalyan	-	Weed management	Weed management in Onion	4	4	10	10	10	-

	Flowers													
	Ornamental													
	Fruits	Irrigated	Rabi/summer	Watermelon	-	Sugar queen	Integrated disease mgt	Low yield due to powdery and downy mildew diseases, viral diseases	2.5	2.5	5	-	5	-
		Irrigated	Rabi/summer	Grapes	Manik chaman	-	Powdery mildew and downy ildew disease in disease mgt	Powdery mildew and downy mildew disease in grapes	2.5	2.5	5	-	5	-
		Irrigated	Kharif/Rabi/summer	Pomegranate	Bhagava	-	Management of wilt	Demonstration on wilt Management in Pomegranate	2.5	2.5	5	-	5	-

	Spices and condiments													
	Commercial	Irrigated	Kharif/rabi/summer	Sugarcane/Cotton-cow pea	DC-15	Ajeet (Cotton)		Introduction of cotton-cowpea as an alternate cropping system for sugarcane	5	5	2	2	5	-
		Irrigated	Kharif	Sugarcane	86032	-	Soil fertility management	Demonstration of Insitu Green manuring in sugar cane	4	4	10	-	2	8
		Irrigated	Kharif	Sugarcane	86032			Management of rootgrub in Sugarcane	4	4	10	10	4	6
	Medicinal and aromatic													
	Fodder													
	Plantation													

	Fibre													
	Dairy													
	Poultry													
	Rabbitry													
	Piggery													
	Sheep and goat													
	Duckery													
	Common carps													
	Mussels													
	Ornamental fishes													

	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (specify)													

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

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
	Oilseeds	Irrigated	Rabi/summer	Groundnut	Variety Dh-256	-	Varietal introduction	Demonstration of Dh-256 high Yielding Groundnut Variety		179.5	10.3	79.6	
		Irrigated	Rabi/summer	Groundnut	Variety Dh-256	-	Pest and disease management	Management of Stem rot and leaf minor in Ground nut					
	Pulses	Irrigated	Rabi/summer	Chickpea	Variety JG-14	-	Varietal introduction	Demonstration of heat tolerant variety JG-14 for late sowing condition under irrigated situation		178.2	9.4	77.8	
		Irrigated	Rabi/summer	Chickpea	Variety JG-14	-	Disease management	Management of wilt & root rot in chickpea					
	Cereals	Rainfed/ Irrigated	Kharif	Maize		Private Hybrid	IPM	Fall armyworm Management in Maize					
		Rainfed	Rabi	Sorghum	M35-1		IPM	Fall armyworm Management in Sorghum					
	Millets												
	Vegetables	Irrigated	Rabi	Okra	Arka-Nikita	-	Varietal introduction	Introduction of new high yielding okra – Arka Nikhita					

		Irrigated	Rabi	Clusterbean	Pusa Navbahar	-	Varietal introduction	Integrated crop management on cluster bean		186.2	8.4	78	
		Irrigated	Rabi	Radish	Arka Nishant	-	Varietal introduction	Demonstration of high yielding radish variety					
		Irrigated	Kharif	Onion	Arka Kalyan	-	Weed management	Weed management in Onion		188.1	10.4	75.3	
	Flowers												
	Ornamental												
	Fruit	Irrigated	Rabi/summer	Watermelon	-	Sugar queen	Integrated disease mgt	Low yield due to powdery and downy mildew diseases, viral diseases					
		Irrigated	Rabi/summer	Grapes	Manik chaman	-	Powdery mildew and downy ildew disease in disease mgt	Powdery mildew and downy mildew disease in grapes					
		Irrigated	Kharif/Rabi/ summer	Pomegranate	Bhagava	-	Management of wilt	Demonstration on wilt Management in Pomegranate					
	Spices and condiments												

	Commercial												
		Irrigated	Kharif/rabi/summer	Sugarcane /Cotton-cow pea	DC-15	Ajeet (Cotton)		Introduction of cotton-cowpea as an alternate cropping system for sugarcane		178.4	9.4	77.4	
		Irrigated	Kharif	Sugarcane	86032	-	Soil fertility management	Demonstration of Insitu Green manuring in sugar cane		171.8	9.2	86.4	
		Irrigated	Kharif	Sugarcane	86032			Management of rootgrub in Sugarcane		185.6	11.7	82.6	
	Medicinal and aromatic												
	Fodder												
	Plantation												
	Fibre												

5.B. Results of FLDs

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check(Rs./ha)		
							Demo			Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
Oilseeds																	
Groundnut	Demonstration of Dh-256 high yielding groundnut variety	Dh-256	-	Irrigated	10	4	31.50	26.25	28.20	22.93	23.01	118440	69880	2.44	96285	47725	1.98
Groundnut	Pest and disease management	Dh-256	-	Irrigated	10	4	30.50	25.5	28.25	23.25	17.69	141250	77685	2.22	116250	51970	1.80
Pulses																	
Chickpea	Demonstration of heat tolerant variety JG-14 for late sowing condition under irrigated situation	JG-14	-	Irrigated	05	2	14.50	11.25	12.80	11.50	10.82	62400	31175	2.00	56306	25081	1.80
Chickpea	Management of wilt & root rot in chickpea	JAKI-9218	-	Rainfed	10	4	12.50	10.00	12.35	10.95	11.33	51870	28740	2.24	45990	20280	1.788
Maize	Fall armyworm Management in Maize		Private hybrid	Rainfed	10	4ha	61.3	40	50.13	44.83	11.83	81274	39289	1.94	72968	31943	1.80
Sorghum	Fall armyworm Management in Sorghum	M-35-1		Rainfed	10	4ha	15	11.3	12.98	10.93	18.76	54851	29419	2.16	48515	21910	1.82

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check(Rs./ha)		
							Demo			Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
Millets																	
Vegetables																	
Okra	Introduction of yellow vein mosaic virus tolerant okra variety	Arka nikita	-	Irrigated	5	02	11.7 t/ha	9.0 t/ha	10.4t/ha	9.20 t/ha	30.00	208000	146000	3.35	184000	134000	2.96
Clusterbean	Integrated Crop Management in Cluster bean	Pusa Navbahar	-	Irrigated	5	01	9.5 t/ha	7.5 t/ha	8.58t/ha	5.24t/ha	26.6	214500	156500	3.69	131000	73000	2.24
Radish	Demonstration of high yielding radish variety	Arka Nishant	-	Irrigated	5	0.5	27.4 t/ha	19.9 t/ha	23.6t/ha	16.23t/ha	37.7	138000	83000	2.50	90000	35000	1.63
Onion	Weed management in Onion	Arka kalyan	-	Irrigated	10	4	50.0	37.5	43.5	32.0	35.9	174000	102488	2.4	128000	49213	1.6
Flowers																	
Ornamental																	
Fruit																	
Watermelon	Integrated disease management	-	Sugar queen	Irrigated	5	2.5	65.0t/ha	61 t/ha	62.27 t/ha	51.69t/ha	16.98	248800	180600	3.65	206400	144000	3.31

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			Economics of check(Rs./ha)		
							Demo			Check		Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
Grape	Management of downy and powdery mildew	Manik Chaman	-	Irrigated	5	2.5	45t/ha	41.5t/ha	42.8t/ha	38.2t/ha	10.74	1712000	1366540	4.95	1528000	1192360	4.574
Pomegranate	Management of wilt in pomegranate	Bhagava	-	Irrigated	5	2.5	13.5t/ha	11t/ha	12.44t/ha	9.9t/ha	25.65	870800	665800	4.25	693000	486860	3.36
Spices and condiments																	
Commercial																	
Sugarcane	Introduction of cotton-cowpea as an alternate cropping system for sugarcane	Sugarcane-Co-86032		Irrigated	5	2	-	-	-	115.75	-	-	-	-	260438	116288	1.81
			Cotton-Ajith-155	Irrigated			22.00	20.50	21.30	-	-	180924	97716	2.17	-	-	-
		Cowpea-DC-15		Irrigated			19.50	17.50	18.31	-	-				-	-	-
Sugarcane	In situ green manuring in sugarcane	Sugarcane-Co-86032	-	Irrigated	10	4	62	52	57.3	49.3	16.23						
Sugarcane	Management of rootgrub in Sugarcane	86032	-	Irrigated	10	4			106.9	93.04	14.89	256500	170767	303	224100	133592	2.51
Fibre crops like cotton																	
Medicinal and aromatic																	

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)			Check	% Increase	Economics of demonstration (Rs./ha)			Economics of check(Rs./ha)		
							Demo					Gross Return	Net Return	BCR	Gross Return	Net Return	BCR
							H	L	A								
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**
Yellow vein Mosaic Virus incidence % (FLD- Okra)	5.54 %	8.30%
No. of Pods/plant (FLD- Clusterbean)	133.22	85.56
Root length in cm (FLD- Radish)	25.16 cm	18.36 cm
Groundnut Leaf miner (% infestation)	9.75	12.54
Stem rot (%)	24.86	30.46
Wilt incidence (Pomegranate)	26.17	38.40
Chickpea wilt	10.96	15.76
Chickpea Root rot	8.81	12.85
Water melon Powdery	15.85	20.26
Watermelon downy mildew	18.86	23.84

Wilt	9.23	14.80
Grape PM	15.73	22.48
DM	18.45	26.23

Data on other parameters in relation to technology demonstrated Weed management in onion		
Parameter with unit	Demo	Check
Plan height (cm)	47.3	37.3
No. of Leaves per plant	6.2	4.8
Weed density (No. of weeds per m^2)	26.1	67.1
Weed dry matter	35.1	79.5
Weed control efficiency (%)	78.8	52.1

Data on other parameters in relation to technology demonstrated Demonstration of heat tolerant variety JG-14 for late sowing condition under irrigated situation		
Parameter with unit	Demo	Check
Plant height (cm)	38.2	24.6
No. of Pods/Plant	42.4	39.0
100 seed weight (g)	24.0	23.7
Wilt (%)	8.6	9.0
% pod damage	12.8	13.5

Data on other parameters in relation to technology demonstrated Demonstration of Dh-256 high yielding groundnut variety		
Parameter with unit	Demo	Check
Plant height (cm)	34.66	52.02
No, of Pods/Plant	23.20	17.80
100 seed weight (g)	35.80	32.32

5. B2. Feedback on technologies demonstrated

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of Dh-256 high Yielding Groundnut Variety	Leaves are dark green in colour, Height of the plant is shorter	Seed availability is a constraint
Management of Stem rot and leaf minor in Ground nut	Knowledge on use of bio-agents and new molecules of fungicides. Disease reduction and increase in yield levels	-
Demonstration of heat tolerant variety JG-14 for late sowing condition under irrigated situation	JG-14 Seeds are shrunken Suited for late sowing	Seed availability is a constraint
Management of wilt & root rot in chickpea	Knowledge on use of bio-agents for disease reduction and increase in yield levels	
Fall armyworm Management in Maize	The technology is economical and easy to adopt	
Fall armyworm Management in Sorghum	The technology is economical and easy to adopt	
Demonstration on weed management in onion	Labour cost on manual weeding can be reduced Onion seedling will be dull due to POE application of Oxyflurofen	
Introduction of new high yielding okra – Arka Nikhita	Yield level was low due to high incidence of yellow vein mosaic disease.	
Integrated crop management on cluster bean	Cluster bean yield levels are very encouraging and market acceptability was high for Pusa Navbahar . Next coming year also farmers expressed they will grow with ICM practices in Clusterbean	-
Demonstration of high yielding radish variety Arka Nishant	Roots long, marble white in colour with crisp texture and mild pungency. Resistant to pithiness, premature bolting, root branching and forking. Yield 35-40 t/ha.	-
Integrated Disease Management in Watermelon	Knowledge on bio-agents, new molecules of fungicides, sticky trap for fungal, viral disease reduction and increase in yield levels	-
Powdery mildew and downy mildew disease in grapes	Knowledge on new molecules of fungicides. Disease reduction and increase in yield levels	-
Demonstration on wilt Management in Pomegranate	Knowledge on bioagents for wilt management and increase in yield levels	-
Introduction of cotton-cowpea as an alternate cropping system for sugarcane	Water consumption of cropping system can be reduced and minimized striga incidence	Though it reduces water consumption and striga incidence, economically not profitable when compared sugarcane sole crop.
Demonstration of Insitu Green manuring in sugar cane	Insitu green manuring is productive technology reduces use of chemical fertilizers, increases soil organic carbon	Seed availability and high cost is a constraint
Management of root grub in Sugarcane		
Demonstration of mechanized harvesting of sugarcane	Mechanical harvesting is the only alternate to overcome the labour scarcity.	Wide row spacing with 4 ft in sugarcane is the best suited for harvesting the sugarcane.

		Mechanised harvesting is economical when it is adopted in large area
Demonstration of nutrigarden nutritional security of farm families	The urban group has savings of Rs. 200/week by nutrigarden. During the COVID situation the skills learnt through nutrigarden helped the families to harvest and use for families. The knowledge on vermicompost and vermiwash was enhanced. Home scale methods of pest and disease control methods have been adopted by the urban group	-

5.B.3. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Name of the parameter with unit	Yield (kg/animal)				% Increase	*Economics of demonstration Rs./unit)			*Economics of check (Rs./unit)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Dairy																
Dairy	Management of anoestrus in Cattle & Buffalo	HF	10	1/units	Concept rate	0	0	39.9	28	40	64050	37550	2.4	27450	2450	1.09
Dairy	Supplementation of By pass fat for higher milk yield & fat in diary animals	HF	10	1/unit	Milk yield/unit	0	0	8	6.4	25	67340	51530	2.6	51530	26530	1.6
Poultry																
Rabbitry																
Pigerry																
Sheep and goat																

Sheep and goat	Demonstration of Integrated health management in Sheep & Goat	yalaga	10	1	10/animal/unit	34	26	28.7	24.8	15.72	7175	4725		6200	5750	
	Management of anoestrus in sheep and goat	Yalaga	3	2	Conception rate %	0	0	88.8	72.2	23	35000	32000		30000	29500	
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**
Animals in heat/10 animals	8 (3 conceived)	7 (2 conceived)
Milk fat %	3.43	3.06
Disease incidence %	11	26
Onset of heat after removal of sponge (hrs)	28.53	29.40

5. B4. Feedback on livestock technologies demonstrated

Name of livestock technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Supplementation of By pass fat for higher milk yield & fat in diary animals	Enhances peak milk production and persistency of lactation. Increase reproductive efficiency after calving Decreases metabolic disorders such as ketosis, acidosis Increases productivity and productive life of animals	-
Management of anoestrus in Cattle & Buffalo	Oestrus synchronization is ensured with this technology	-
Demonstration of Integrated health management in Sheep & Goat	Enhances gain in body and reduces mortality	The schedule to be followed is bit tedious for illiterate farmers
Demonstration of Indigenous Progesterone sponge in Synchronization of estrous in Sheep & Goat	Kidding percentage increases and economically profitable to farmers	Progesterone sponges may be made available with veterinary dept so as to reach maximum number of farmers

5.B.5. Fisheries

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

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

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

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

5. B6. Feedback on fisheries technologies demonstrated

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

5.B.7. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m^2}	Name of the parameter with unit	Yield				% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)			*Economics of check (Rs./unit) or (Rs./m2)		
						Demo			Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Oyster mushroom																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)	Value addition to Pulses (EDP)	-	1	No.	Margin profit			10000/q	6000/q	4000/-						

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

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

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

5. B8. Feedback on enterprises demonstrated

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

5.B.9. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Name of the operation with unit	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
						Demo	Check			Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
Demonstration of mechanized harvesting of sugarcane	1.50 cr	Demonstration of mechanized harvesting of sugarcane		2	Hr/ac	20	5.9	-	14 hr/ac	-	-	--	-	-	-+

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

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

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

5. B10. Feedback on farm implements demonstrated

Name of farm implement demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Mechanization of harvesting sugarcane	It is an important equipment to harvest sugarcane , Minimum spacing should be 4 feet	small land holdings have a problem

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

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days			
2	Farmers Training			
3	Media coverage			
4	Training for extension functionaries			
5	Demonstrations	2	12	

PART VI – DEMONSTRATIONS ON CROP HYBRIDS (2020)

Demonstration details on crop hybrids

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
					Demo			Check		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
					H	L	A								
Cereals															
Bajra															
Maize	Fall armyworm Management in Maize	Private hybrid	10	4	61.3	40	50.13	44.83	11.83	81274	39289	1.94	72968	31943	1.80
Paddy															
Sorghum															
Wheat															
Others (pl.specify)															
Total															
Oilseeds															
Castor															
Mustard															
Safflower															
Sesame															
Sunflower															
Groundnut															
Soybean															
Others (pl.specify)															
Total															
Pulses															
Greengram															
Blackgram															
Bengalgram															
Redgram															
Others (pl.specify)															
Total															
Vegetable crops															
Bottle gourd															
Capsicum															
Others (pl.specify)															
Total															
Cucumber															
Tomato															
Brinjal															
Okra															
Onion															
Potato															
Field bean															

Others (pl.specify)															
Total															
Commercial crops															
Sugarcane															
Coconut															
Others (pl.specify)															
Total															
Fodder crops															
Maize (Fodder)															
Sorghum (Fodder)															
Others (pl.specify) **Watermelon**	Integrated disease management	Sugar queen	5	2.5	65.0t/ha	61 t/ha	62.27 t/ha	51.69t/ha	16.98	248800	180600	3.65	206400	144000	3.31
Total															

H-High L-Low, A-Average

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

Feedback on crop hybrids demonstrated

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

PART VII. TRAINING (2020)

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	1	3	0	3	1	0	1	3	1	4
Resource Conservation Technologies										
Cropping Systems	11	280	20	300	50	9	59	330	29	359
Crop Diversification	01	50	05	55	25	05	30	75	10	85
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	2	35	05	40	20	3	23	55	8	63
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										

Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	2	15	5	20	10	4	14	25	9	34
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										

Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)	1	25	5	30	10	05	15	35	10	45
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	1	18	5	23	0	2	02	18	7	25
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										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
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	9	535	65	600	140	21	161	675	86	761
Integrated Disease Management	1	10	05	15	02	00	02	12	05	17
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										
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	1	25	0	25	0	0	0	25	0	25
Vermi-compost production	1	61	2	63	0	0	0	61	2	63
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**31**	**1057**	**117**	**1174**	**258**	**49**	**307**	**1314**	**167**	**1481**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems	12	450	30	480	35	20	55	485	50	535
Crop Diversification	1	80	10	90	20	05	25	100	15	115
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	1	18	02	20	02	0	02	20	2	22
Soil and Water Conservation										
Integrated Nutrient Management										
Production of organic inputs										
Others (pl.specify) Weather based Agriculture	3	40	05	45	10	06	16	50	11	61
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	2	45	5	50	30	05	35	75	10	85
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (pl.specify)										
c) Ornamental Plants										

Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl.specify)										
f) Spices										
Production and Management technology	2	47	0	47	0	0	0	47	0	47
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	6	150	30	180	50	7	57	200	37	237
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing	1	35	03	38	0	0	0	35	03	38
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	4	25	5	30	8	0	08	30	08	38
Poultry Management										

Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	5	110	10	120	20	06	26	130	16	146
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										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
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	1	38	0	38	4	0	4	42	0	42
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	2	29	0	29	8	0	8	37	0	37
Integrated Disease Management	2	25	10	35	6	0	6	31	10	41

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										
Pearl culture										
Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics	7	115	05	120	15	05	20	130	10	140

Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)	3	20	05	25	06	01	07	26	6	32
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	**52**	**122 7**	**120**	**134 7**	**214**	**55**	**269**	**143 8**	**178**	**161 6**

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										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing	1	100	06	106	0	0	0	100	06	106
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)	2	50	10	60	10	0	10	60	10	70
TOTAL	**3**	**150**	**16**	**166**	**10**	**0**	**10**	**160**	**16**	**176**

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										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)	3	50	05	60	10	8	18	60	18	78
TOTAL	3	50	05	60	10	8	18	60	18	78

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	1	40	05	45	05	0	05	45	05	50
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs	2	41	02	43	2	8	10	43	10	53
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	3	2	72	74	1	23	24	3	97	100
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application	1	38	7	45	05	0	05	43	07	50
Management in farm animals										
Livestock feed and fodder production										
Household food security	1	17	85	102	5	18	23	22	103	125
Any other (pl.specify)	3	60	10	70	20	06	26	70	26	96
Total	**11**	**198**	**181**	**379**	**38**	**55**	**93**	**226**	**248**	**474**

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	2	70		70	25		25	95		95
Integrated Nutrient management	1	30		30	02		05	35		35
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	06	0	300	300	0	83	83	0	383	383
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization	02	80		80	17	0	17	97		97
Information networking among farmers										
Capacity building for ICT application	01	30	0	30	04	0	04	34		34
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Disaster Management	1	14	0	14	0	0	0	14	0	14
Total	**13**	**210**	**300**	**480**	**51**	**83**	**126**	**201**	**383**	**658`**

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**	**13**	**700**		**700**	**248**		**248**	**948**		**948**
1.a.	Increasing production and productivity of crops										
1.b.	Commercial production of vegetables										
2	**Production and value addition**										
2.a.	Fruit Plants										
2.b.	Ornamental plants										
2.c.	Spices crops										
3.	**Soil health and fertility management**	**11**	**344**		**344**	**121**		**121**	**465**		**465**
4	**Production of Inputs at site**	**1**	**20**		**20**				**20**		**20**
5	**Methods of protective cultivation**										
6	**Others (pl.specify)**										
7	**Post harvest technology and value addition**										
7.a.	Processing and value addition										
7.b.	Others (pl.specify)										
8	**Farm machinery**										
8.a.	Farm machinery, tools and implements										
8.b.	Others (pl.specify)										
9.	**Livestock and fisheries**										
10	**Livestock production and management**										
10.a.	Animal Nutrition Management	**02**	**28**	**01**	**29**		**1**		**29**	**1**	**30**
10.b.	Animal Disease Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
11.	**Home Science**										
11.a.	Household nutritional security	**05**	**43**	**131**	**174**	**21**	**44**	**65**	**64**	**175**	**239**
11.b.	Economic empowerment of women										
11.c.	Drudgery reduction of women										
11.d.	Others (pl.specify)										
12	**Agricultural Extension**										
12.a.	CapacityBuilding and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	**32**	**1135**	**132**	**1267**	**390**	**45**	**434**	**1526**	**176**	**1702**

Details of sponsoring agencies involved

1. Karnataka State Department Of Agriculture
2. Agriculture Research Station
1. Karnataka State Department Of Horticulture
2. Syndicate bank Bagalkot (Lead Bank)
3. Animal Husbandry
4. BEC STEP
5. OUTREACH
6. Sugar Factories in the district
7. Karnataka Milk Federation, Bagalkot
8. Karnataka Farmers Resource Centre, Bagalkot
9. ICICI Bank
10. E and Y

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

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	**Crop production and management**										
1.a.	Commercial floriculture										
1.b.	Commercial fruit production										
1.c.	Commercial vegetable production										
1.d.	Integrated crop management										
1.e.	Organic farming										
1.f.	Others (pl.specify)										
2	**Post harvest technology and value addition**										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	**Livestock and fisheries**										
3.a.	Dairy farming	**1**	**19**		**19**		**1**	**1**	**19**	**1**	**20**
3.b.	Composite fish culture										
3.c.	Sheep and goat rearing										
3.d.	Piggery										
3.e.	Poultry farming										
3.f.	Others (pl.specify) Sheep and goat	**1**	**80**		**80**	**26**		**26**	**106**		**106**
4.	**Income generation activities**										
4.a.	Vermi-composting	**1**	**20**		**20**				**20**		**20**
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	**3**	**85**		**85**	**18**		**18**	**103**		**103**
5.b.	Others (pl.specify)										
	Grand Total	**6**	**204**		**204**	**44**	**1**	**45**	**248**	**1**	**249**

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 entrepreneur	19/2/2020	14/03/2020	20	19	0	19	0	1	1	19	1	20	22.1.2021	20
2.	Organc grower	24/02/2020	19/03/2020	20	20	0	20	0	0	0	20	0	20	22.1.2021	20

PART VIII – EXTENSION ACTIVITIES (2020)

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

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No.of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	8	66	8	74	25	5	30	12	112	124
Kisan Mela	5	562	25	587	253	15	268	67	15	82
Kisan Ghosthi				0			0			0
Exhibition	5	675	100	775	100	50	150			0
Film Show	15			0			0			0
Method Demonstrations	9	87	35	122	14	6	20	28	26	54
Farmers Seminar	2	48	59	107	0	0	0	48	59	107
Workshop	54			0			0			0
Group meetings	9	42	208	250	21	3	24	61	211	272
Lectures delivered as resource persons	210	3220	155	3375	380	45	425	188	25	213
Newspaper coverage	12			0			0			0
Radio talks	9			0			0			0
TV talks				0			0			0
Popular articles	19			0			0			0
Extension Literature	8			0			0			0
Advisory Services	2560	1800	200	2000	500	60	560	2300	260	2560
Scientific visit to farmers field	52	40	10	50	5	5	10			0
Farmers visit to KVK	784	485	25	510	25	5	30	510	30	540
Diagnostic visits	15			0			0			0
Exposure visits	2	82	3	85	10	0	10	3	92	95
Ex-trainees Sammelan				0			0			0
Soil health Camp	8	262	41	303	29	6	35	25	4	29
Animal Health Camp				0			0			0
Agri mobile clinic				0			0			0
Soil test campaigns	8	262	41	303	29	6	35	25	4	29
Farm Science Club Conveners meet	6	50	10	60	20	10	30	70	20	90
Self Help Group Conveners meetings	25	50	10	60	20	10	30	70	20	90
Mahila Mandals Conveners meetings	1	0	10	10	0	5	5	0	15	15
Celebration of important days (specify)	28	520	415	935	100	50	150	620	465	1085
Any Other (Specify)	25	256	20	276	40	10	50	296	30	326
Total	**3879**	**8507**	**1375**	**9882**	**1571**	**291**	**1862**	**4323**	**1388**	**5711**

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										
National Animal Disease Control										

Programme										
Tree Plantation Campaign	02			38						
Any other, Pl. specify										
Covid-19 Awerness campaigns	April 16-May 31	280	200	480						
Poshan Mah	Sept 01 – Sept 30	242	987	1229						
Swachhata Pakwada	Dec 16 -30	250	219	469						
Technology Week	19-25.12.2020			94						

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

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Name of the Variety	Name of the Hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)						
Jawar	Jawar	M-35-1		6.00	Germination fail	Seed provided to University Seed Unit
Wheat	Wheat	DWR-162		28.58	79,000	
Oilseeds	Groundnut	G2-52	0	15.40	110840	
Soyabean	Soyabean	JS-335		25.85	149930	
Pulses	0	0	0	0	0	
Bengalgram	Bengalgram	Jaki-9218		24.79	151219	
Red gram	Red gram					
Commercial crops	0	0	0	0	0	
Vegetables	0	0	0	0	0	
Onion	Onion		0	20Kg	27,600	
Chill						
Flower crops	0	0	0	0	0	
Spices	0	0	0	0	0	
Fodder crop seeds	Fodder Cuttings	0	0	0	0	
Fiber crops	0	0	0	0	0	
Forest Species	0	0	0	0	0	
Others (specify) Azzolla	Azzola	0	0	95.5	9500	
Total				**216.37**	**5,28,839**	

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	Drumstick	Bhagya		546	5460	30
	Tomato Seedlings			164Tray	7380	10
	Brinjal Seedlings			131Tray	5895	10

	Chilli Seedlings			384Tray	21120	10
	Guava seedlings	A/K		354	14160	100
	Currey leaf			88	1320	62
Fruits	Lime	Balaji		345	6900	12
	Guava	Lucknow-49/A/K		140	2800	55
	Sapota			132	2640	42
Ornamental plants				365	5475	50
Vegetable	Palak, Coriendor, Ridgegourd			14	100	10

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	Metarhizium	501	1,25,250	100
Bio-fungicide	Trichoderma	542	70,460	61
Bio Agents				
Others (specify)	Pseudomonas	269	40,350	50
Total		**1312**	**236060**	**211**

9.D. Production of livestock

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Milk			3407	119245	119245	
2	Azolla			95.5	9550	9550	
3	Sale of Goat			2	8500	8500	
4	Sale of Birds			45	13500	13500	

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: **2005** Periodicity: **Quarterly** Copies printed in each issue: **Online**

(B) Literature developed/published

Research papers- International

- Mahesh Kadagi, M. R. Kammar, R. S. Arjun and P. Ashoka 2020, Impact of Sheep and Goat Rearing Skill Training on Knowledge Gain and Adoption of Technologies, International Journal of Current Microbiology and Applied Sciences. 9(4): Pp: 2144-2151 NAAS 5.38
- SP Dinesh Kumar, MR Kammar and S Sudha, 2020. Performance of Dicoccum wheat variety DDK1029 under front line demonstration in Bagalkote district of Karnataka, India International Journal of Chemical Studies. 2021; 9(1): 1390-1392

Research papers- National

- Mouneshwari R Kammar, Arjun R.S. and Angadi S.C.2020 Entrepreneurship development through value addition of millets and Jaggery in Bagalkote district of Karnataka. Journal of Pharmacognosy and Phytochemistry. February 2020: 9(2): 1030-1032

- Airadevi P Angadi, Sudha S.M.R.Kammar (2020), Effect of micronutrinets, microbial consortium,and biostimulants on growth and yield of African marigold (Tegetes serecta.L.,) Journal of Pharmacognosy and phytochemistry. 2020 9(5):1495-1499

- Mouneshwari R Kammar, Arjun R.S. and Angadi S.C.2020 Entrepreneurship development through value addition of millets and Jaggery in Bagalkote district of Karnataka. Journal of Pharmacognosy and Phytochemistry. February 2020: 9(2): 1030-1032

Booklets - 2

- MRK , ARS, Haroli M.S.Siddappa Angadi, and Sunil Lamani, Compilation of Centrally sponsored schemes (Kannada), 28.08.2020

- MRK , ARS, Haroli M.S.Siddappa Angadi, and Sunil Lamani, Compilation of Centrally sponsored schemes (English), 28.08.2020

- Arjun R.S., M.R. Kammar and other. Methods of composting.

- Siddappa Angadi . Editor: M.R.Kammar 2020 Relevance of Agriculture in Janapada

Popular articles

1. Kammar M.R.Aarogyakar Ahardinda Covid doora. Hosa Digant.11/4/2020 page 2. Hubli Edition
2. Kammar M.R. 2020. Hingary phasalige , ahar sarapalige corona kantakave? Krishi Kamadhenu. 13(4-6): 27-29
3. Angadi S.C. COVID samayada raitar tolalat. Krishi Kamadhenu, 13(4-6): 45
4. Majeed G, Kammar M.R. and Sulagitti R S 2020 Mobile app for sugarcane cultivation. Compendium of proceedings of sugarcane conference held at UASD by SN sugar institute, Balgaum on January 12-14, 2020. 176-177
5. Kammar M.R. 2020 :Webinars as popular means to reach farmers during covid situation Vijayakarnataka. 2.08.2020
6. Kammar M.R. and Angadi S.C., Importance of nipping in redgram. Vijayakarnataka 24.08.2020
7. Angadi S.C., Belli R. B., Kammar M.R.2020 Beleulike sudabyadri:Magi Ulume bidabyadri. Krishi Jagaran March 2020. 5(3):12-14
8. Kammar M R, 2020 Mannina Jeevantike Ulisalu Heege maadi. Krishi Munnade 33(2):18
9. S.C. Angadi and M.R.Kammar 2020 Aadaayakke Hosa Udyam:Krishi Pravasodyama. Krishi Kamadhenu, 13(2):25-29
10. M.R.Kammar and Siddappa Angadi ; Krishiya Achara: Biochar Vijayakarnataka 4.11.2020 Page 2 (Krishi vijaya)
11. Mahesh Haroli and Mouneshwari R Kammar :Gudugu mattu minchugala nikhar mahiti tiliyalu damini mobile app. Krishi Kamadhenu. December 2020.P: 28-31
12. Arjun Sulagitti and Mouneshwari Kammar .Erejalavemba Jeevajala. Krishi Kamadhenu. December 2020.P: 41-12
13. Airdevi P A, Kammar M.R. and Sudha S Supta beejada ondu avalokan. Krishi Kamadhenu December 2020. P: 32-36
14. Kammar M.R. and Siddappa Angadi 2020. Savaya Krishiyalli Meenu tyajyavannu balasabahudu. Krishi Munnade 33(3):11-12
15. Kammar M.R. 2020. Anukaraneeya Naari shaktiya Prateek Noorjahan. 33(3):32
16. Angadi S.C. and Kammar M.R. 2020.Adaayakke hosa udyam: Krushi pravasodyam. Krsihi kamadhenu 13(2): 25-29
17. Kammar M.R. 2020. Krishi Pravasodyama: Raitarige hosa bageya Adaay. Krishi Munnade 33(3):21-23
18. Kammar M.R., Dineshkumar S.P. and Angadi S.C. 2020. Irulli beedotpadaneyind Nishtita Adaya. Krishi kamadhenu. 12(9):41-42
19. Dineshkumar S P and Sudha S . Onion seed production technologies. Krishi Munnade : 33(10) p 11-14

Success stories during COVID-19

1. KVK Bagalkot Produce purchased at Farm gate by FPO Hunagund- case study. Innovative Agri solutions during COVID 19 National level e-book Page 50-51 published by ICAR, New Delhi
2. KVK Bagalkot, Drying of grapes relieves marketing stress for FPO, Jamakhandi-Case study Innovative Agri solutions during COVID 19. National level e-Book 114-115 published by ICAR, New Delhi

Folders

1. Kammar M R. Mighty millets 2020
2. Mahesh H. 2020 Havaamaana Krishi: Apps and programmes

3. Arjun Sulagitti, M.R. Kammar, Sudha S Dinesh Kumar. Togari beleyalli Samgrag Pide nirvahane KVK, Bagalkote September2020
4. Arjun Sulagitti, M.R. Kammar, Sudha S Dinesh Kumar Soya avare beleyalli Samgrag Pide nirvahane/ KVK, Bagalkote, September2020
5. M.R. Kammar Arjun Sulagitti Airadevi Angadi, Dinesh Kumar Sudha S.2020 Aahar badrategagi Poustic kaitota. KVK, Bagalkote. September2020
6. Mahesh Haroli and others (edited by M.R. Kammar) : Damini App November 2020
7. Venkanna Balaganur and others (edited by M.R.Kammar): Composite fish culture November 2020

News letters

January-March 2020, KVK, News Letter
April-June-2020, KVK, News Letter
July-September 2020, KVK, News Letter
October-December-2020, KVK, News Letter

Item	Number
Research papers- International	02
Research papers- National	02
Technical reports	05
Technical bulletins	04
Popular articles - English	-
Popular articles – Local language	19
Extension literature	07
Others (Success stories during COVID-19)	02
Abctract	01
Newsletters	01
TOTAL	**44**

10.B. Details of Electronic Media Produced

S. No.	Type of media	Title	Details
	CD / DVD		
	Mobile Apps		
	Social media groups with KVK as Admin		
	Facebook account name		
	Instagram account name		For PKVY farmers
			Videos on you tube

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–Farming is a profitable enterprise by adopting Agri-Horti-silviculture followed by value addition and marketing model

Background

Climate change and variability, frequent floods and droughts, fluctuating market prices and many more things makes agriculture sector uncertain. This makes decrease in farmers income and increasing debt leads to growing numbers of farmers suicides across the country. A young 34 years farmer Shivananda Ayyappa kori resident from kalligudda village, Hungunda taluka, Bagalkote district, Karnataka overcomes these problems and shown himself that farming can be profitable by adopting integrated farming system(IFS) and became a role model to many farmers. He had interest in agriculture since childhood, once after completion of his PUC education he visited many progressive farmers of Andhra Pradesh, Tamilnadu and Maharashtra and he also in touch with the Krishi Vigyan Kendra, Bagalkote continuously for the guidance. He planned his 6 acre farm in such a way that one should get monthly, yearly and long term income generation similar to government employee. He realizes that this can be achieved by integrated farming system and currently he is earning more than one lack rupees per month

Interventions

Primary contact with KVK and he has several other sources to access . He adopted only horticulture initially, then added on the forestry, agriculture, animal husbandry, medicinal and aromatic plantation, has his own packing unit and outlet.

Process

Shivanand was in touch with KVK and also with all the line departments before he started all the crops and organic, slowly progressed in medicinal plants, started his own outlet when there was a lockdown during corona outbreak.

Technology

He is practicing Agri- Horti- forestry system of farming in his 6 acre farm. He planted 550 Guava, 500 red apple ber, 1500 currey leaf, 400 sandalwood and 750 Mahagani trees as a plantation and fruit crops this can gives more than 2 crore rupees in next 12 years. He grown medicinal plant stevia which is very good for sugar patients it self can gave 35 to 40 thousand rupees per month. In another 1.5 acre area he has grown 5000 shatavari plants it will give 12 lack rupees income in 18 months, in the same land he grown beetroot as companion crop this will meet out expenditure of main crop. In remaining 2 acre land he is cultivating sugarcane, onion, chilli, tomato and marigold crops. He planted *Melia dubia*(Hebbevu) all along the bunds. Apart from this, he also involved in secondary agricultural activities like he established onion processing unit, poultry farm and fruit shop from these also he is generating good income.

Impact

Horizontal Spread: More than 1800 farmers have visited his farm and have adopted his technology in one or the other crop

Economic gains: His net profits range minimum one lakh/month
Employment Generation: His farm at least four members/day and more during harvesting season, his is employing one person for sales outlet also. Apart from that, he has a group of youth of his village who unitedly marketed their produce during lockdown.

In village Kalligudda, one of our Shreshta Yuva krishika (Taluka level best Youth farmers of Hunagund taluka awarded during 2019-20, Mr. Shivanand Kori has started procurement of fruits and vegetables from the surrounding villages and has opened marketing outlet in the village itself. He has been motivated to take up this activity by KVK Bagalkot. He is procuring watermelon, papaya, tomato and other vegetables and earning Rs. 2000-3000/day. His earning have raised to 25000 during last week. Dr. Dineshkumar S.P. Scientist Agronomy and Sri S.C. Angadi Sr. Tech. Officer were present on this occasion.

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

1. Drying grapes relieves marketing stress for FPO-Jamkhandi,KTK

Background

- Grape is an important fruit crops of Bagalkot district spread in an area of 3000 ha. Out of which 2500 ha belongs to farmers of FPO Jamakhandi.
- COVID 19 restricted the marketing of grape exactly coinciding with harvest season.
- Farmers used to sell the fresh produce @ Rs. 40/kg in the regular seasons. But this season due to COVID 19 rates/kg was Rs. 25/kg.
- Only 2000 tons of fresh grape was sold price ranging from Rs. 25-85. About 85000 tons was converted to resins yielding into 22000 tons of dry grapes (Avg. yield 35 ton/ha)

Action points

- KVK Bagalkot in collaboration with Dept. of Horticulture, and district administration linked these farmers to HOPCOMS for fresh grape markets , but the rates were not encouraging. During the regular seasons they sold the grapes @ Rs. 40-85/kg, but this COVID season the rates were Rs. 25/kg.
- The farmers then were advised to go for resin making from about 95% of the produce. Technical support about drying through training was provided.
- Around 1000 farmers from this FPO converted 85000 tons fresh grapes into resins and came out of the crisis of marketing by producing good quality grapes. Earning net profit of Rs. 660 crores.
- They have stored their dry produce at nearby cold storage of Karnataka and Maharashtra border and will sell their produce to Sangli (Maharashtra)market.

2. Produce purchase at Farm gate by FPO Hungund, Bagalkot

Background

- Hungund Horticulture Farmers Producer Company financially supported by Dept. of Horticulture and technically supported by KVK Bagalkot, Karnataka is situated in dryland mainly concentrated on onion and chilli produced by their members.
- FPO used to sell these produce to SAFAL market Bengaluru involving 600 members (20% of FPO members). Rest of the farmers used to sell their produce to retailers, APMC and local vendors
- Due to COVID 19 farmers of village and members of FPO could not sell their produce to the outside agencies.
- FPO started procuring farmers produce i.e.,Banana, watermelon, Grapes, Onion, Chilli, vegetables, papaya, lime and garlic.

Action points

- FPO never used to purchase the perishable fruits and vegetables, but started procuring these produce. They started an outlet at the FPO office for retail marketing of fruits. More than 2 tons of fruits are sold at the FPO
- The produce of the members and non members of FPO was purchased at the farm gate itself which relieved the pain of more than 1800 farmers of Sulebhavi and surrounding 20-25 villages. A total of Bengalgram 245 MT, onion 128 MT, Lemon 39 MT, watermelon 30 MT, Banana 20 MT,vegetables 30, Mango 3.5 MT , Grape 2 MT were purchased and sold by the FPO in 45 days worth 1.77 crores, while the previous transaction was 7 crores for 2019-20.
- Marketing channels i.e., ITC, MORE , SAFAL and reliance fresh are the buyers

1. Boost in the price of chilli producers of FPO from Bagalkot

Mouneshwari R. Kammar
Krishi Vigyan Kendra, Bagalkot, University of Agricultural Sciences, Dharwad

Horticulture sector as in rest of the India is an unorganized sector in Karnataka also. Small size land holdings, low bargaining power to access financial and non-financial inputs, services and appropriate technologies, higher transaction costs are among the major challenges. Few of the farmers with the contract farming have also faced various other challenges viz., low productivity, quality and no value addition made tough for better earnings inspite of their total involvement. These challenges with the small farmers with fragmentation of holdings due to generational transfer were likely to abate. FPOs offer a form of aggregation irrespective of land titles with individual producers and uses the strength of collective planning for production, procurement and marketing to add value to members' produce. FPOs makes a strong case for policy support to member based farmer bodies, to significantly increase their power in the market place, reduce risks and help them move up the horticulture value chain.

Hunagund Hortiucultural Farmers Producer organization (HHFPO) is newly started FPO under the financial assistance from Horticulture Dept. and technical backup by Krishi Vigyan Kendra , Bagalkot. The HHFPO was started during July 2018 at covering 18 villages located in Sulebhavi, Hunagund with 1000 farmers as shareholders. This FPO is mainly committed to assure the better price for the farmers produce mainly chilli, onion and then other crops. In this paper example of marketing chilli has been depicted as experienced by the farmers. The farmers who cultivate chilli are made into separate segment and are given a special variety of chilli after making an agreement with buyers. The farmers are technically supported in the aspects like crop calenders , water management, fertigation, pest and disease management. FPO also conducted Front line Demonstrations, Farm trials and monitored through all the stages of the crop. Then the produce was procured at the farm gate with higher rates than the rates existing inlocal local market. The

buyback agreement was made with ITC India Ltd, Kamathan, Farm Pro, More, Udhan and Pallada. The produce purchased by the farmers and is graded by employing the farmers of the same FPO. During this process of chilli marketing , every farmer has got Rs. 1000 as an additional price at farm gate and has saved transportation charges also.

During the first year itself this momentum of chilli marketing gained popularity and it was a success. The farmers realised better prices for their produce than the market. The details are as follows.

Variety of chilli	Area (ha)	Total Production (q)	Productivity (q/ha)	Price offered by FPO (Rs/q)	Market prices (Rs/q)	FPO's annual turnover
334	60	975	16.25	7500	6500	7312500

Seeking the success of the chilli marketing the FPO expanded its chilli production with two more varieties of private companies. The details of the production are as follows

Sl. No	Variety of chilli	Area (ha)	Total Production (q)	Productivity (q/ha)	Price offered by FPO (Rs/q)	Market prices (Rs/q)	FPO's annual turnover
1	334	100	2125	21.25	6500	6500	15937500
2	Syngenta 2043	24	720	30	9500	8500	6840000
3	Syngenta 5531	20	600	30	9500	8500	5700000
							28477500

This FPO has adopted various value addition strategies like grading, branding and packing to enhance the price of the produce procured from the farmers. Under the name **Janathrupthi** these products are sold and have got the popularity and are being exhibited in all the melas organised by various institutions. One such Mela which was organised recently and graced by Hon'ble Prime Minister of India , Sri Narendra Modiji at Madhya Pradesh.

Glimpses of different activities in chilli marketing by HHFPO, Hunagaund , Bagalkot dist.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale

10 F. Technology Week celebration during 2020:

Period of observing Technology Week : From 19-25 December 2020
Total number of farmers visited : 94
Total number of agencies involved : 06
Number of demonstrations visited by the farmers within KVK campus : 15
Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized	06	312	ICM, IPM, Varietal introduction, Pest and disease management, seed production, fodder production, health management, fertility management
Exhibition	2	83	ICM, IPM, Varietal introduction, Pest and disease management, seed production, fodder production, health management, fertility management
Film show			ICM, IPM, Varietal introduction, Pest and disease management, seed production, fodder production, health management, fertility management
Fair			
Farm Visit	06		To the demo units
Diagnostic Practical			
Supply of Literature (No.)	8	500	Weather related apps, nutrition garden, pulse production technologies, oil seed production technologies,
Supply of Seed (q)			
Supply of Planting materials (No.)			
Bio Product supply (Kg)	02		
Bio Fertilizers (q)			
Supply of fingerlings			
Supply of Livestock specimen (No.)			
Total number of farmers visited the technology week	94		

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

Sl. No.	Title	Awarded by	Level*	Year of Award
1	Pandit Deen Dayal Upadhyay Krishi Prostahan Puraskar (Zonal 2019) awarded by ICAR for the year 2019.	Indian Council of Agricultural Research	National level	2019
2	Adarsh Vidya Saraswati Rashtriya Puraskar (National Award of Excellence 2020) The Best Scientist (Agronomy) of the year award-2020	Glacier Journal of Research Foundation, Global Management Council, Ahmedabad on 17-11-2020	Professional Society	November, 2020

PART XI – SOIL AND WATER TEST

Soil and Water Testing Laboratory

A. Status of establishment of Lab : 2008
1. Year of establishment : 2008
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost	Status
1.	2 KVA Voltage stabilizer	01		
2.	Commercial Gas stove	01		
3.	Regulator	01		
4.	Digital conductivity meters	01		
5.	Analytical Balance	01		
6.	Refrigerator 300 litre	01		
7.	Orbital shaking incubators	01		
8.	Controller based pH meter	01		
9.	Hot water baths	01		
10	Plant sample grinder	01		
11	Screw auger	01		
12	Magnetic stirrer with hot plate 5 lit capacity	01		
13	Electronic Kelplus Microprocessor	01		
14	Electronic Kelplus Auto sequencing Microprocessor			
15	Electronic Titration system			
16	Ass , Pinade 500 touch HSN Machine	01		
17	Flame Burner	01		
18	Instrument pinade 500 base unit	01		
19	Kit pinade 500 touch ACS	01		
20	Powercand west asian India	01		
21	Host Assy- Acetylen Rod	01		
22	Acetelyne filter Assy	01		
23	Filter Assy – W/R 250 regulator guage	01		
24	Hose Assy Air/ Argon	01		
25	Fe Lumina HCL	01		

26	Zn Lumina HCL	01		
27	Cu Lumina HCL	01		
28	Mn Lumina HCL	01		
29	Lenova M83 Win Z-66	01		
30	19" LCD Monitor wide screen	01		
31	Accupipet variable volume pipette	01		
32	Bottle Top Dispenser Research model ful actoclavable(5-60ml)	01		
33	Water Softner	01		
34	3 Way Tap brass and chrome plated	01		
35	Mridaparikshak soil testing Kit (Mini Lab)	01		
36	Voltas Make Split Air condition	01		
37	Uv Spectrophotometer (Brand Lasany International)	01		
38	Plant Digestion Sysytem (Kjedhal Digistion System)	01		
39	Ph Photometer	01		
Total				

B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	19166	18296	4712	**3562286**
Water Samples	5126	16420	4722	
Plant samples				
Manure samples				
Others (specify)				
Total				

C. Details of samples analyzed during the 2020:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	598	642	186
Water Samples	443	642	186
Plant samples			
Manure samples			
Others (specify)			
Total	**1041**	**642**	**186**

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:

	During 2019	During 2020	Cumulative progre (Total)
Samples analyzed (No.)			
Farmers benefited (No.)			
Villages covered (No.)			

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit during 2020:

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

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil heal cards issu (No.)	VIPs (M Minister/MLA attended (No.)	Other Publ Representatives participated	Officials participated (No.)	Media coverage (No.)
5.12.2020	**268**	**55**		**15**	**35**	

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)

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)

Large scale adoption of Sorghum variety SPV-2217 in Bagalkote taluka.

Frontline demonstration on Sorghum varieties was undertaken by KVK Bagalkote during 2016-17 and 2017-18 in deep black soils of Anagavadi, Kaladigi, Shirur & Katageri villages of Badami, Bagalkote and Hunagund talukas in 50 farmers' fields. These villages are traditionally recognized as the areas of sorghum cultivation predominated by well known cultivar M-35-1. Khadak roti or flat , unleavened bread are common across north Karnataka is prepared out of this sorghum. More than 100000 ha area under Rabi sorghum in the district and M-35-1 is the leading variety which is low yielding and susceptible lodging and charcoal rot. To find out a suitable alternate to this variety, KVK introduced SPV-2217 under Front Line Demonstrations. It was clear from demonstrations that, SPV-2217 has higher earhead length, and fodder yield when compared to M-35-1. From last three years a cluster of villages in Bagalkot taluka including Kagalgomba, Katageri and Neeralkeri have adopted this variety in more than600 ha are. The quality of the fodder and grain yield has made these faremrs to adopt this variety even after the KVK's intervention was not there. Yearly the area under this variety is increasing . The role of KVK is to facilitate the procurement of seeds, as the faremrs donot want to use seeds produced by them. In both the demonstrations SPV-2217 and CSV-29R have given better results when compared to M-35-1. But on organoleptic evaluation, the rotis prepared out of M-35-1 had better acceptability. Prevalence of pest, disease, fodder yield, 1000 grain weight were also calculated.

		Ear head length (cm)	Charcoal rot	Lodging (%)	Shoot fly damage (%)	Fodder yield (t/ha)	1000 grain weight (g)	Yield (q/ha)	% increase	COC (Rs/ha)	Gross Return (Rs/ha)	Net return (Rs/ha)	B: C ratio
2016-17	CSV-29R	18.0	-	-	1.7	6.50	-	9.5	21.17	11860	25357	13497	2.14
	M-35-1	16.8	-	-	1.8	5.80	-	7.8					
2017-18	SPV-2217	21.0	0.00	0.00	0.54	7.80	45	7.7	19.4	11860	20740	8880	1.74
	M-35-1	15.9	0.25	43%	1.20	5.40	39	6.2		9775	12400	2625	1.27

Feedback from farmers

- The seeds are bold and lighter in color when compared to M-35-1
- While preparation of roti with SPV-2217, one need more stickiness from this flour when compared to M-35-1
- Better Stover yielder as the plant is taller than M-35-1
- The taste of M-35-1 is better than SPV-2217.
- The variety demonstrated during 2017-18 and has spread over 500 acres in Katageri, Kagalgomb of Badami taluka

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
University of Agricultural Sciences, Dharwad	Technical Resource / Guidance
University of Horticultural Sciences, Bagalkot	Technical Resource / Guidance
Karnataka State Department Of Agriculture	Identification of beneficiaries for trainings and joint diagnostic survey, Meetings
Agriculture Research Station	Technical Resource and exposure visits
Karnataka State Department Of Horticulture	Joint diagnostic survey, Meetings, Trainings to the farmers and extension functionaries, implementation of NHM activities, NHB
Karnataka State Forest Department	Joint diagnostic survey, Meetings, Trainings, Participation in Vanamahotsava etc.,
Syndicate bank Bagalkot (Lead Bank)	SHGs, Financial assistance
SBM Bagalkot	SHGs, Financial assistance
SBI Bagalkot	SHGs, Financial assistance
Corporation Bank Bagalkot	SHGs, Financial assistance,
District statistical department	Statistical data collection
All higher secondary schools and collages	Trainings and extension activities (Youths)
District Social forestry office	Integrated waste land development programme, JFPM project, Meetings
NABARD	Agriculture and rural credit assistance, Farmers club
Pest control of India	Supply of bio-control agents
Irrigation department	Soil and water conservation
Sericulture department	Technical resource, Identification of beneficiaries for trainings and joint diagnostic survey, Meetings
Animal Husbandry	Technical assistance, IFS
BEC STEP	Technical assistance in post harvest technology
RUDSET	Assistance in taking entrepreneurship
BASIX (NGO)	Technical Resource / Guidance, Technical assistance to farmers
SEARCH	Technical Resource / Guidance, Technical assistance to farmers
OUTREACH	Technical Guidance and Seed production
IGFRI, Dharwad	Fodder seed production
Sugar Factories in the district	Technical Resource / Guidance, Technical assistance to Extension personnel and farmers
JSYS, Bagalkot	Technical assistance and training
Karnataka Milk Federation, Bagalkot	Technical assistance and training
Karnataka Farmers Resource Centre, Bagalkot	Technical assistance and training
ICICI Bank	For technical support & trainings
E and Y	Drip to market agri corridor – Technical support

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Bioefficacy and phytotoxicity of tetraconozole 3.8% w/w EW against diseases in grape	Rabi 2020	Willwood chemicals Pvt Ltd New Delhi	140000
Bioefficacy and phytotoxicity of WCPL 7500 against diseases in grape	Rabi/summer 2020 and 2020	Willwood chemicals Pvt Ltd New Delhi	280000
Chemical Testing trial i.e. Bio-efficacy and phytotoxicity of chlorantriniliprole against pod borer pests in chilli(I-season)	2020-21	Willswood chemical Pvt Ltd	2,00,000
Swatchata Action plan	2020-21	ATARI Bengaluru	37500

13C. Details of linkage with ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	**Meetings**	**DFAC meeting**			
02	**Research projects**				
03	Training programmes	Trainings on soil health management, Animal nutrition, clean milk production, Nutrigarden, Plant protection indifferent crops	15	3	
04	**Demonstrations**	Silage preparation			
05	**Extension Programmes**	Women in Agriculture day	1	1	54 women faremrs and extension workers participated
	Kisan Mela				
	Exposure visit				

	Exhibition	Exhibitton on nutritious foods	2	1	
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
06	**Publications**				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	**Other Activities** (Pl.specify)				
	Watershed approach				
	Integrated Farm Development				
---	Agri-preneurs development				

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

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

13E. Nature of linkage with National Fisheries Development Board

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	01	00	01	00	01	00	03	163831

2020									
February	Text	02	00	00	00	00	00	02	109220
March	Text	00	00	01	00	01	00	02	111691
April	Text	03	00	00	00	03	00	06	330282
May	Text	00	00	00	00	00	00	00	00
June	Text	00	00	00	00	01	00	01	54615
July	Text	00	00	00	00	00	00	00	00
August	Text	00	00	00	01	03	00	04	218566
September	Text	01	00	00	00	00	00	01	54658
October	Text	00	00	00	00	01	00	01	54658
November	Text	00	00	00	00	00	00	00	00
December -2020	Text	00	00	00	00	01	00	01	54658
Total		**7**	**0**	**2**	**1**	**11**	**0**	**21**	**1152179**

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	2017-18				204.63	163704	163704	
2	Vermiwash	2017-18				1165	99025	99025	
3	Azolla Unit	2017-18	1 gunta	Azolla pinnata		95.5	9550	9550	
5	Live Earth warms	2017-18				93	27900	27900	
6	Fodder Cuttings	2019-20				750 cuttings	750	750	

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									
Jawar	15.11.2019 21.11.2019	26.03.2020	8	M-35-1	C/S	6.00	Germination fail	Germination fail	
Wheat	23.11.2019 to 05.12.2019	30.03.2020	8	DWR-162	F/S	28.58	92,505	92,505	
Pulses									
Bengal gram	27.11.2019 to 01.12.2019	15.03.2020	10	Jaki-9218	B/S	24.79	151219	151219	
Oilseeds									
Groundnut	25.06.2020 to 02.07.2020	21.10.2020 to 02.11.2020	14	G2-52	B/S (Bulk)	87.25	Sent to Seed Unit,UAS Dharwad		
Soybean	15.06.2020 to 18.06.2020	05.10.2020	06	JS-335	B/S (Bulk)	25.85	Sent to Seed Unit, UAS, Dharwad		
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Onion Bulbs						110	660	660	
Chilli						125	6250	6250	
Others (specify)									
Fuel woods							1450	1450	
Onion Seeds						127	152400	152400	

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Pseduomonas	269	40,350	40,350	
2	Metarhizium	501	1,25,250	1,25,250	
3	Trichodemra	542	70,460	70,460	

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Milk			3407	119245	119245	
2	Azolla			95.5	9550	9550	
3	Sale of Goat			2	8500	8500	
4	Sale of Birds			45	13500	13500	

14E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	**No. of trainees stayed**	**Trainee days (days stayed)**	**Reason for short fall (if any)**
January	0	0	0
February	0	0	0
March	42	122	Guest and farmers ASCI Skill Training
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0

14F. Database management

S.No	Database target	Database created
1.	**May**	OFT data management @ Microsoft excel
2.	**August**	FLD data management @ Microsoft excel
3.	**October**	Training data management @ Microsoft excel
4.	**December**	Linkage data management@ Microsoft excel

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 Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY)

Sl No.	Name of cluster village	Initial soil fertility status (Average of cluster village)				Facilities created for organic source of manure	Name of Crops cultivated	Variety	Organic inputs applied including bio-agents and botanicals treatment	Yield (q/ha)		Economics		
		Aval. N	**Aval. P**	**Aval. K**	**OC %**						**Gross returns (Rs/jha)**	**Cost of cultivation (Rs/ha)**	**Net returns (Rs/ha)**	**B:C ratio**
Kharif (2020)														
1	Benakatti	95	12	81	0.38	Vermicompost, Jeevamruth Tank and Waste decomposer Tank	Greengram	Sel-4	PSB, Trichoderma, Azospirillum, Jeevamruth and Waste decomposer	Used as in-situ green-manuring	-	-	-	-
2	Benakatti	315	11	72	0.63	"	Onion	Arkakalyan	"	27.5	110000	35500	74500	3.1
3	Benakatti	315	9	68	0.63	"	Fallow	-	"	-	-	-	-	-
4	Benakatti	315	12	74	0.63	"	Fallow	-	"	-	-	-	-	-
5	Benakatti	190	13	62	0.76	"	Fallow	-	"	-	-	-	-	-
6	Benakatti	315	10	78	0.63	"	Onion	Arkakalyan	"	20.0	80000	32550	47450	2.5
7	Benakatti	158	9	67	0.63	"	Onion	Arkakalyan	"	23.8	95200	33750	61450	2.8
8	Benakatti	190	8	84	0.76	"	Onion	Arkakalyan	"	21.3	85200	32500	52700	2.6
9	Benakatti	380	11	72	0.76	"	Onion	Arkakalyan	"	25.8	103200	35000	68200	2.9
10	Benakatti	157	8	67	0.63	"	Sunflower	Ganga Kaveri	"	5.0	26305	10000	16305	2.6
11	Benakatti	158	9	71	0.63	"	Fallow	-	"	-	-	-	-	-
12	Benakatti	190	8	64	0.76	"	Fallow	-	"	-	-	-	-	-

13	Benakatti	158	7	69	0.63	"	Oninon	Arkakalyan	"	25.0	100000	35000	65000	2.9
14	Benakatti	380	12	82	0.76	"	Oninon	Arkakalyan	"	22.3	89200	33350	55850	2.7
15	Benakatti	148	8	70	0.51	"	Oninon	Arkakalyan	"	20.0	80000	31500	48500	2.5
16	Benakatti	158	9	68	0.63	"	Oninon	Arkakalyan	"	25.8	103200	35500	67700	2.9
17	Benakatti	158	11	82	0.63	"	Fallow	-	"	-	-	-	-	-
18	Benakatti	380	10	74	0.76	"	Onion	Arkakalyan	"	22.3	89200	32500	56700	2.7
19	Benakatti	95	12	82	0.3 8	"	Fallow	-	"	-	-	-	-	-
20	Benakatti	157	9	76	0.63	"	Onion	Arkakalyan	"	21.3	85200	31200	54000	2.7
21	Benakatti	190	11	84	0.76	"	Onion	Arkakalyan	"	20.0	80000	31000	49000	2.6
22	Benakatti	315	11	72	0.63	"	Greengram	Sel-4	"	5.0	42505	16000	26505	2.7
23	Benakatti	190	12	82	0.76	"	Onion	Arkakalyan	"	25.8	103200	35000	68200	2.9
24	Benakatti	128	8	70	0.51	"	Fallow	-	"	-	-	-	-	-
25	Benakatti	190	11	68	0.38	"	Sunflower	Ganga Kaveri	"	5.2	27357	9500	17857	2.9

Note: Market price of different crop is given in the following table

Crop	Greengram	Sunflower	Onion
Price (Rs/q)	8501	5261	4000

Average data of crops grown under Paramparagath Krishi Vikas Yojana (PKVY) during *Kharif* 2020

Sl. No.	Name of cluster village	Initial soil fertility status (Average of cluster village)				No. of Farmers	Name of Crops cultivated	Variety	Yield (q/ha)	Economics			
		Aval. N	Aval. P	Aval. K	OC %					Gross returns (Rs/ha)	Cost of cultivation (Rs/ha)	Net returns (Rs/ha)	B:C ratio
1	Benakatti	217.0	10.0	73.6	0.6	13	Onion	Arkakalyan	23.1	92584.6	33411.5	59173.1	2.8
						2	Greengram	Sel-4	5.0	42505.0	16000.0	26505.0	2.7
						2	Sunflower	Ganga Kaveri	5.1	26831.1	9750.0	17081.1	2.8
						8	Fallow	-	-	-	-	-	-

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
01.	66 times	655	895	12	350

15.3 Fertilizer awareness programme 2020

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

15.4 Seed Hub

Crops	Variety	Year of release	Production				Remarks
			Target (q)	Area (ha.)	Actual Production (q)	Category (FS/CS)	
Greengram	DGGV-2	2014	350	8	13.30	CS	Sold
Pigeonpea	TS-3R	2011	250	14	36.40	FS	Germination failed lot return to farmer
Chickpea	JAKI-9218	2007	400	8	71.75	FS	Sold
	NBeG-49	2018		8	33.50	FS	Sold

15.5 CFLD on Oilseeds:

Sl.No.	Crop	Varieties demonstrated and check		Allocated		Implemented	
				Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
	Groundnut	Demo	Check				
		G2-52	TMV-2	20	50	20	50
	Total			20	50	20	50

15.6 CFLDs on Pulses:

Sl.No.	Crop	Varieties demonstrated and check	Allocated		Implemented	
			Area (ha)	Demos (No.)	Area (ha)	Demos (No.)
1	Bengalgram	JAKI-9218 A-1	20	50	20	50
2	Redgram	TS-3R and Gulayal	10	25	10	25
	Total		30	75	30	75

15.7 Krishi Kalyan Abhiyan-NA

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

15.8 Micro-Irrigation-NA

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

15.9 Tribal Sub-Plan (TSP) NA

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

15.10 SCSP –NA-

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

15.11 NARI

Activity	Achievement	
	Number of activity	No. of farmers/ beneficiaries
OFTs – Nutritional Garden (activity in no. of Unit)	-	-
OFTs – Bio-fortified Crops (activity in no. of Unit)	-	-
OFTs – Value addition (activity in no. of Unit/Enterprise)	-	-
OFTs - Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	-	-
FLDs – Nutritional Garden (activity in no. of Unit)	**50**	**50**
FLDs – Bio-fortified Crops (activity in no. of Unit)	-	-
FLDs – Value addition (activity in no. of Unit/Enterprise)	-	-
FLD- Other Enterprises (activity in no. of Unit/Enterprise) (activity in no. of Unit/Enterprise)	-	-
Trainings	**5**	**278**
Extension Activities	**37**	**1107**

15.12 KVK Portal

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

15.13 KSHAMTA -NA-

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

15.14 DFI

Sl	District	Taluks	Villages	Farmers (No.)	Average Benchmark Income (Rs/year)	Crops/ enterprises	KVK Interventions	Additional Net Income generated due to KVK interventions (Rs/year)	Total income of farmer (Rs/year)
1.	Bagalkot	Bagalkot	Honnakatti	56	119114	Vegetables	Introduction of HYV in vegetables and		8958
2.	Bagalkot	RB' Hatti	Navalagi	51	157407	Turmeric, Nutrigarden, animal husbandry	Rhizome rot amangement, introduction of nutritgarden and clea milk production	22500	179908
3.	Bagalkot	Hunagund	Benakanawari	50	71744	G. nur, sugarcane, maize bajra, groundnut	Intercropping, Introduction of new variety of groundnut, pest and disease management,breeds of birds,	15552	87296
4.	Bagalkot	Badami	Mangaladdda	23	18067	Maize, vegetables, groundnut	Introduction of redgram, pest and disease management in groundnut, chickpea, nutrigarden and vegetables	Still under progress	
5.	Bilagi	Bilag	Katarki	22	90446	Sugarcane,	Insitu green manuring, cotton-cowpea system and intercropping	26158	116604
6.									

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 KVK	State Bank of India, Bagalkot	Bagalkot	812	KVK Account	36905791678	587002002	SBIN0000812
With KVK	State Bank of India, Bagalkot	Bagalkot	812	Pulse seed hub	36905783179	587002002	SBIN0000812
With KVK	State Bank of India, Bagalkot	Bagalkot	812	Revolving Fund	36951067025	587002002	SBIN0000812

16B. Utilization of KVK funds during the year 2019-20(Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	10620000	10298127	10364172
2	**Traveling allowances**	150000	150000	93221
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	360000	360000	350434
B	EDP/Innovative activities	25000	25000	24965
C	POL, repair of vehicles, tractor and equipments	360000	360000	360000
D	Soil and Water testing and issue of soil Health cards	25000	25000	24930
E	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	100000	100000	51225
F	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	130000	130000	128691
G	Farmers Field School	30000	30000	26751
H	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	410000	410000	352958
I	Extension Activities including world Soil health day	100000	100000	97358
J	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	74000	74000	54980
K	Training of extension functionaries	25000	25000	11505
L	Maintenance of buildings	100000	100000	24484
M	Library	5000	5000	4452
	TOTAL (A)	**12514000**	**12192127**	**11970126**
TOTAL (A)				
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipment including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			* 719444
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**12514000**	**12192127**	**12689570**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

- Purchase of vehicle amount released under 2018-19

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	33,58,591	17,96,057	15,65,801	35,88,846
April 2018 to March 2019	35,88,846	25,19,435	17,09,061	43,99,220
April 2019 to March 2020	43, 99,220=20	23,36,704=98	23,12,993=48	44,22,931=70

17. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. venkanna Balaganur	Scientist-Animal Science	Advances in fodder production, utilization and conservation for improving livestock health, productivity and environmental stability	IGFRI-Jhansi (Online)	20-08-2020 to 09-09-2020
Dr. Airadevi Angadi	Scientist-Horticulture	Strategic Plan to Double Farm Income through Protected Cultivation of Vegetables	NAHEP- CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur	31.08.2020 to 07.09.2020
Dr. Airadevi Angadi	Scientist-Horticulture	Urban Farming for Extension Professionals	Extension Education Institute, Hyderabad	12.10.2020 to 16.10.2020
Dr. Sudha S.	Scientist-Plant pathology	On Farm Production of Bio Control Agents and Microbial Bio-pesticides	Extension Education Institute, Hyderabad	14.09.2020 to 18.09.2020

Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Three Days Online Training Course on "Carbon Sequestration in Climate Smart Agriculture"	Online via Zoom-cloud meeting, Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM), MPKV, Rahuri (MH) under the National Agricultural Higher Education Project (NAHEP) of ICAR, New Delhi.	11.05.2020 to 13.05.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	IQAC Organized national Webinar on "CAS Promotion & Issues"	Online via Zoom-cloud meeting, Dnyandeo Mohekar Mahavidyalaya, Kalamb, IQAC	20.05.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	International Online Short Course on "Precision Agriculture: A Technology for Income Augmentation & Entrepreneurship Development"	Online: Google meet. MTTC & VTC, College of Fisheries, Central Agricultural University (Imphal), Tripura, India Under NAHEP, CAU (I) India	07.07.2020 to 18.07.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	One day training programme on "Motivation for Phsychological and Physical Fitness to Sustain and Enhance Skills"	Online: Zoom, ICAR-NAHEP-IDP-National Webinar by UAS, Dharwad.	21.07.2020

Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on “Fish Farming in Farm Pond”	Online: Google meet, Organized by ICAR-Krishi Vigyan Kendra, Bagalkote, ICICI Foundation for Inclusive Growth, Bagalkote and ICAR-BIRDS-KVK, Tukanatti (Belagavi-2) on 30-07-2020 at 11:00 pm to 12:.00 pm	30.07.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on “Integrated Insect Pests and Nematodes Management in Banana”	Zoom meeting ICAR-NRC for Banana, Thayanur post,Tiruchirapalli, Tamil Nadu	04.08.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	One week Online International Training Programme on “Advances in Weed Science Under Changing Agrarian Landscape”	Google meet Division of Agronomy, Faculty of Agriculture under IDP-NAHEP SKUAST-Kashmir.	06.08.2020 to 12.08.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on “Innovative Approaches in Seed Quality Maintenance for Successful Entrepreneurship" under NAHEP-IDP program	Zoom meeting UAS, Dharwad.	07.08.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on “Climate Change Impact on Occurrence and Spread of Diseases in Crop Plant and their Management.	Google meet Indian Phytopathology Society, New Delhi and ICRISAT, Hyderabad	10.08.2020

Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	National webinar on "Nature, Extent and Management of Problematic Soils for Sustainable Agriculture"	Google meet Directorate of Research Service, RVSKVV, Gwalior (M.P) in collaboration with AICRP on MSAS&USWA, College of Agriculture , Indore, Indore Chapter of ISSS and Indian society of Soil salinity and Water Quality, CSSRI, Karnal.	13.08.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on "Biopesticies Green Technology in Sustainable Agriculture"	Zoom meeting UAS, Dharwad	18.08.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	National Online Training Programme on "Using ICT Tools for Recording Online Lectures"	Google meet SKUAST-Kashmir	24.08.2020 to 30.08.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on "Framework and protocols for seed quality assurance"	Google meet UAS, Dharwad under NAHEP	09.09.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on "Soil test and result interpretation"	Zoom meeting KFRC, Bagalkote & UHS, Bagalkote	11.09.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	National webinar on "Nutritional and Health Benefits of Sorghum and other Millets"	UAS, Dharwad under NAHEP	29.09.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Training on "Sustainable Management of Small Scale Seed Enterprises"	Online Microsoft Team Meeting NAARM, Hyderabad	05.10.2020 to 09.10.2020

Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	National Webinar on "Recent Advancements in Seed Health Management"	Online Zoom meeting ICAR-Indian Institute of Seed Science, Mau (India)	05.10.2020
Dr. Dinesh Kumar S.P.	Scientist (Agronomy)	Webinar on "Farmer Bill"	Online Microsoft Team Meeting SAMETI (North), UAS, Dharwad.	17.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Bimonthly meeting	AEEC Mudhol	4/2/2020
Dr. M.R. Kammar	Senior scientist and Head	KVK Conference and PUSA Mela	NASC complex, New Delhi	28/2/2020 to 1/3/2020
Dr. M.R. Kammar	Senior scientist and Head			
Dr. M.R. Kammar	Senior scientist and Head	District level meeting with Hon'ble Minister for Agriculture on COVID management strategies	DC office, Bagalkot	6/4/2020
Dr. M.R. Kammar	Senior scientist and Head	Zoom Meeting with Director ATARI	-	13/4/2020
Dr. M.R. Kammar	Senior scientist and Head	Preaction through Zoom plan presentation	-	22/4/2020
Dr. M.R. Kammar	Senior scientist and Head	Through teams Stake holder's meeting of DMAC programme	-	28/4/2020
Dr. M.R. Kammar	Senior scientist and Head	Meeting with ATARI director and DE through Zoom	Online	8/5/2020
Dr. M.R. Kammar	Senior scientist and Head	Participated in action plan meeting of seed unit regarding crop plan meeting	Online	11/05/2020
Dr. M.R. Kammar	Senior scientist and Head	Annual review and action plan meeting of KVKs	Online	27-29/05/2020

Dr. M.R. Kammar	Senior scientist and Head	Meeting with district officials	DC office	29/05/2020
Dr. M.R. Kammar	Senior scientist and Head	Online meeting with Hon'ble agriculture minister, GOK	Online	13.06.2020
Dr. M.R. Kammar	Senior scientist and Head	Meeting on varietal popularization of varieties released by UASD	UASD	19.06.2020
Dr. M.R. Kammar	Senior scientist and Head	Bimontly meeting	KVK Bagalkot	20.06.2020
Dr. M.R. Kammar	Senior scientist and Head	Online meeting with Director of Extension regarding farm plan	Online	22.06.2020
Dr. M.R. Kammar	Senior scientist and Head	Online meeting with ATARI and Directorate regarding action plan and review of nutrigarden	Online	25-26.06.2020
Dr. M.R. Kammar	Senior scientist and Head	Preliminary discussion on women and COVID webinar	Online	27.06.2020
Dr. M.R. Kammar	Senior scientist and Head	Zonal workshop of KVKs of Zone XI	Online	14-15.07.2020
Dr. M.R. Kammar	Senior scientist and Head	Private sector alliance with DMAC	Online	25.07.2020
Dr. M.R. Kammar	Senior scientist and Head	Demonstration of organic block at KVK-	Online	1.08.2020
Dr. M.R. Kammar	Senior scientist and Head	Export potential of Pomegranate in selected districts of Karnataka	Online	3.08.2020
Dr. M.R. Kammar	Senior scientist and Head	Online meeting of ICAR on development of videos	Online	4.08.2020
Dr. M.R. Kammar	Senior scientist and Head	ZREAC and ZREFC meeting of UASD	Online	03.09.2020 to 04.09.2020

Dr. M.R. Kammar	Senior scientist and Head	PR app training for master trainers	Online at DC office	09.09.2020
Dr. M.R. Kammar	Senior scientist and Head	Rabi seed planning programmes	UASD	11.09.2020
Dr. M.R. Kammar	Senior scientist and Head	Webinar on farm bills(KVK-Tukkanatti	Online	03.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Webinar on farm bills	Online	03.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Staff meeting conducted by ADE Vijayapur	KVK	05.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Webinar on farm bills	Online	07.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Webinar on FARMS App	Online	07.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Meeting on DFI village data collection	Online	13.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Online meeting on review of DAMU	Online	15.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Webinar on women empowerment	Online	15.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Webinar on World Food Day programme	Online	16.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Online training on IPM in redgram	Online	22.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Opportunities for micro food processing enterprises under PMFMF scheme	Online	27.10.2020

Dr. M.R. Kammar	Senior scientist and Head	Rabi seed production programme meeting	Online	28.10.2020
Dr. M.R. Kammar	Senior scientist and Head	Antarjal Chetana Meeting held at DC office (attended by S.C. Angadi)	DC office Bagalkote	4.11.2020
Dr. M.R. Kammar	Senior scientist and Head	Workshop on strengthening technology interventions and demonstration of achievements	Online	5.11.2020
Dr. M.R. Kammar	Senior scientist and Head	CFLD review meeting	Online	5.11.2020
Dr. M.R. Kammar	Senior scientist and Head	Folk arts in agri journalism	Online	06.11.2020
Dr. M.R. Kammar	Senior scientist and Head	Virtual Farmer Field day on operation pollinators by syngenta	Online	19.11.2020
Dr. M.R. Kammar	Senior scientist and Head	Task force meeting of Ramathal drip irrigation	Hungaund	9.12.2020
Dr. M.R. Kammar	Senior scientist and Head	Interaction meeting of Director ATARI with KVKs	Online	09.12.2020
Dr. M.R. Kammar	Senior scientist and Head	ATMANIRBHAR meeting	DC office	17.12.2020
Dr. M.R. Kammar	Senior scientist and Head	ATMANIRBHAR meeting	Online	18.12.2020
Dr. M.R. Kammar	Senior scientist and Head	RSK visit by Dr. Balaganur	Mudakavi	21.12.2020
Dr. M.R. Kammar	Senior scientist and Head	DOF meeting on fisheries	Online	22.12.2020
Dr. M.R. Kammar	Senior scientist and Head	National Farmers day	KVK	23.12.2020

Dr. M.R. Kammar	Senior scientist and Head	National farmers day	KVK	23.12.2020
Dr. M.R. Kammar	Senior scientist and Head	India International Science Festival	Online	23.12.2020
Dr. M.R. Kammar	Senior scientist and Head	India International Science Festival	Online	24.12.2020
Arjun Sulagitti	Scientist-entomology	Bio waste Management	NAHEP, UAS Dharwad	27.07.2020
Arjun Sulagitti	Scientist-entomology	Organic Farming	Director of Research, UAS, Dharwad	01.08.2020
Arjun Sulagitti	Scientist-entomology	Production and Exporting opportunities in Pomegranate	NRC, Pomegranate	02.08.2020
Arjun Sulagitti	Scientist-entomology	Integrated pest , disease and Nematode Management in Banana	NRC, Banana TN	04.08.2020
Arjun Sulagitti	Scientist-entomology	PM live telecast Programme on infrastructure Development	Ministry of Agriculture and Farmer welfare, Govt of India	03.08.2020
Arjun Sulagitti	Scientist-entomology	PM Live telecast programme	Ministry of Agriculture and Farmer welfare, Govt of India	29.08.2020
Arjun Sulagitti	Scientist-entomology	Bees and Bee products for healthy life	Maharani's Science College for Women, Bangalore.	03.09.2020
Arjun Sulagitti	Scientist-entomology	Waste Management in Agriculture and Allied sector	EEI, Hydrabad Ministry of Agriculture and Farmer Welfare Govt of India	05.10.2020 to 09.10.2020
Arjun Sulagitti	Scientist-entomology	Precautionary measures taken to overcome the loss of crop after heavy rains	KSDA, Bagalkot	16.10.2020
Arjun Sulagitti	Scientist-entomology	Fruit Fly: Surveillance and Management	NCIPM Hydrabad	07.12.2020 to 11.12.2020

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