ICAR-KRISHI VIGYAN KENDRA, GADAG

ANNUAL REPORT - 2019-20

(FOR THE PERIOD FROM 01 April 2019 TO 31 March 2020)

ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti Gadag district, Karnataka State Pincode: 582205 Host Organisation: Agricultural Science Foundation, Hulkoti

PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti, Gadag dist.	(08372)289606 /289325	-	kvk.Gadag@icar.gov.in kvkhulkoti@gmail.com	www.khpkvk.org

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

Address	Telephone		E mail	Web Address
	Office	Fax		
Agricultural Science	(08372)	-	hulkotiasf@gmail.com	www.asf.ind.in
Foundation, Hulkoti	289069			
Gadag dist.				

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

Name	Telephone / Contact				
	Residence	Mobile	Email		
Dr. L.G. Hiregoudar	-	9448358772	laxs1961@gmail.com		
		8073642868			

1.4. Year of sanction: 1985

1.5. Staff position as on 31 March 2020

SI. No.	Sanctio ned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualificati on (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Categ ory (SC/S T/ OBC/ Others)
1	Head/ Senior Scientist	Dr. L.G. Hiregoudar	Programme Coordinator	м	Crop Physiology	M.Sc (Agri), PhD	37400- 67000+ 10000	67000	05.09.1985	Ρ	OBC
2	Scientist /SMS	Mr. S.K. Mudlapur	Subject Matter Specialist	м	Plant Protection	B.Sc (Agri)	15600- 39100+ 7600	36280	26.09.1994	Ρ	OBC
3	Scientist /SMS	Mr. S.H. Adapur	Subject Matter Specialist	м	Ag. Extension	M.Sc (Agri)	15600- 39100+ 7600	35030	23.06.1995	Ρ	Others
4	Scientist /SMS	Dr. Sudha V. Mankani	Subject Matter Specialist	F	Home Science	M.H.Sc, PhD	15600- 39100+ 7600	35030	26.06.1995	Ρ	OBC
5	Scientist /SMS	Mr. V.D. Vaikunthe	Subject Matter Specialist	м	Agronomy	B.Sc (Agri)	15600- 39100+ 7600	35030	01.07.1995	Ρ	OBC
6	Scientist /SMS	Mr. N.H. Bhandi	Subject Matter Specialist	м	Soil Science	M.Sc (Agri)	15600- 39100+ 6000	27490	01.06.2005	Ρ	OBC
7	Scientist /SMS	Ms. H.R.Hirego udar	Subject Matter Specialist	F	Horticulture	M.Sc (Horti)	15600- 39100+ 5400	15600	14.02.2020	Р	OBC
8	Program me Assistant (Lab Tech.)	Dr. B.M. Murgod	Programme Assistant	М	Animal Science	B.V. Sc	9300- 34800+ 4600	17100	25.06.2007	Ρ	Others

SI. No.	Sanctio ned post	Name of the incumbent	Designation	M / F	Discipline	Highest Qualificati on (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Categ ory (SC/S T/ OBC/ Others)
	_										
9	Program me Assistant (Comput er)	Mrs. L.S.Asuti	Computer Programmer	F	-	M.Sc (IT)	9300- 34800+ 4600	18430	01.06.2005	Ρ	OBC
10	Program me Assistant / Farm Manager	Mr. Suresh L. Halemani	Farm Manager	м	-	B.Sc (Agri.)	9300- 34800+ 4200	14120	01.02.2011	Ρ	OBC
11	Assistant	Mr. M.B. Jakkanagou dar	Assistant	м	-	M.Com	9300- 34800+ 4600	17100	25.06.2007	Ρ	OBC
12	Jr. Stenogr apher	Mr. T.K. Sai Swaroop Rao	Jr. Stenograph er	М	-	SSC & Certificate in Stenograp hy	5200- 20200 +2400	5670	15.12.2016	Ρ	OBC
13	Driver - 1	Mr. N.L. Hadapad	Driver-Cum- Mechanic	м	-	7th Std.	5200- 20200+ 2400	13690	03.09.1992	Ρ	OBC
14	Driver - 2	Mr. G.D. Madivalar	Driver-Cum- Mechanic	М	-	7th Std.	5200- 20200+ 2400	12320	26.06.1995	Ρ	OBC
15	SS-1	Mr. V.R. Navalli	Field Assistant	М	-	SSLC	5200- 20200+ 2400	10700	20.07.1993	Ρ	OBC
16	SS-2	Mrs. S. V. Karadani	Field Assistant	F	-	PUC	5200- 20200+ 1800	5200	14.02.2020	Р	OBC

1.6. Total land with KVK (in ha): 28.0 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	0.5
3.	Under Crops	12.0
4.	Orchard/Agro-forestry	14.0
5.	Others	-

1.7. Infrastructural Development:

A) Buildings

		Source	Stage							
c		of	(Complete				Incomplete		
S. No.	Name of building	funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs. in lakhs)	Starting Date	Plinth area (Sq.m)	Status of construction		
1.	Administrative Building	ICAR	1996	800	33.46	-	-	-		
2.	Farmers Hostel	ICAR	1997	550	17.26	-	-	-		
3.	Staff Quarters	ICAR	31-03-2006	400	25.82	-	-	-		
	1									
	2									
	3									
	4									
	5									
	6									
4.	Demonstration									
	Units									
	1. Dairy	ICAR	31-03-1997	50	4.00	-	-	-		
	2. Sheep & goat	ICAR	31-03-1997	50	2.63	-	-	-		
	 Organic input production unit 	ICAR	31-03-2011	67	3.00					
5	Fencing	ICAR	31-03-2011		8.00					
6	Rain Water harvesting system	ICAR	31-03-2007	-	10.00	-	-	-		
7	Threshing floor	ICAR	31-03-2011	278	2.00	-	-	-		
8	Farm godown	ICAR	31-03-2011	70	3.00	-	-	-		
9	Vermi Compost	DDB	31-03-2002	100	3.50	-	-	-		
10	Vehicle &	ICAR	31-03-2011	80	3.00	-	-	-		
	implement shed									

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs. in lakhs)	Total kms. Run	Present status
Jeep	2009	6.00	198214	Good
(Mahindra Bolero)				
Tractor	2003	5.00	10426 Hrs	Need replacement
Motor cycle - I	2004	0.40	70513	Good
Motor cycle - II	2009	0.50	55193	Good

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs. in lakhs)	Present status
Computer	2008	1.00	Good
Digital Amplifier with Public Address	2013	0.36	Good
System			
ОНР	2004	0.25	Good
Motorised projection screen	2013	0.21	Good
White board	2013	0.14	Good
LED display board	2013	0.10	Good
Hipro lab model gin machine	2006	0.70	Good
Seed delinting machine	2006	0.18	Good
Cotton seed sorter	2007	0.50	Good
Seed treatment drum	2007	0.40	Good
Lap top Computer	2007	0.53	Not Good
LCD	2007	0.45	Good
Ceramic black board	2007	0.12	Good
Rotavator	2008	0.75	Good
Rotary weeder	2009	0.84	Good
Laser guided land leveler	2011	3.89	Good
Power tiller	2011	2.72	Good
Lab equipments for dairy and goatery	2011	0.50	Good
Generator	2011	1.00	Good
EPBAX system	2011	0.50	Good
Equipments of Plant health diagnostic unit	2011	10.00	Good
Laptop computer	2016-17	0.589	Good
Desktop computer	2016-17	0.25	Good
Printer	2016-17	0.181	Good
Copier	2016-17	0.595	Good
Projector	2016-17	0.48	Good
Digital camera	2016-17	0.242	Good
Pico projector	2016-17	0.145	Good
Amplifier	2016-17	0.055	Good
Class room chairs	2016-17	0.21	Good
File cabin	2016-17	0.20	Good
Hostel furniture	2016-17	0.59	Good

1.8. Details of SAC meeting conducted during 2019-20

Date	Number of Participants	Salient Recommendations	Action taken	Remarks,
07- 03- 2020	17	Popularize the Solar/Battery Operated Nipping Machine in Redgram and Chickpea under NFSM on Pulse crops, so as to enhance yield levels through nipping before flowering of the crop. Give special emphasis for rust management in Chickpea under FLDs and Cluster FLDs as this disease is very severe during this year. Advise farmers growing Onion to control weeds through spray of Pendimethalin 30 EC @ 1 liter /		The recomme ndations are for the year 2020-21 and these are included in the Action
		acre as pre-emergent and Oxiflorofen 23.5 EC @ 1.5 ml/lit at 45 days after sowing in case of labor scarcity.		Plan of 2020-21
		Popularize usage of compost culture among farmers.		
		Popularize bee-keeping among farmers by establishing demonstration units at KVK farm.		
		Conduct awareness programmes for district farmers on using appropriate Bt.Cotton Hybrids by taking advise from UAS, Dharwad.		
		Advise farmers to grow African Tall Maize during Kharif and Fodder Oats during Rabi Season so as to address the fodder scarcity in Gadag district.		
		Advise farmers on value addition to dry fodder. Add mineral mixture to treated dry fodder.		
		Advise farmers on Silage making so as to use the same during lean periods.		
		Advise farmers about growing fodder trees on field bunds so as to make fodder available to animals.		
		Joint Director of Agriculture suggested for collaborative activities with KVK in collecting and analysis of soil samples and later in issuing Soil Health Cards.		
		Take up on-farm trial in Groundnut crop to test new varieties.		
		Deputy Director, AH & VS requested for organizing Animal Health Camps jointly with KVK.		
		Popularise growing Sesamum and Linseed in Gadag district.		

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
	•	Try less moisture requiring crops like Coriander,		The
		Ajwain and Cumin in this drought prone district.		recomme
		, , , , , , , , , , , , , , , , , , , ,		ndations
		Develop few cropping patterns in KVK Farm which		are for
		can double the income.		the year
				2020-21
		Take up a trail on Bunch Groundnut in Mulagund		and
		area of Gadag block as farmers are getting very		these are
		low yields due to small sized low weight pods since		included
		3-4 years.		in the
				Action
		Compare Safflower new variety ISF-764 with A-1		Plan of
		variety with respect to yield and oil content trough		2020-21.
		OFT (On-Farm Trial).		
		Deputy Director, Sericulture Department offered his		
		Department's collaboration in conducting trainings		
		and in developing model Mulberry tree orchard at		
		KV/K He suggested to popularize Sericulture		
		among Organic Farmers		
		Take up increased quantity of seed production in		
		Onion and Chilli crops		
		Take up plant propagation in Guava (Arka Kiran		
		variety), Jasmine (Kakada variety), Mango and		
		Cashewnut crops.		
		Advise farmers to grow Tamarind, Jamun, Custard		
		Apple etc., so as to enhance area under these		
		crops. Also advise for value addition in these crops.		
		· · ·		
		Take up demonstrations of Tomato varieties Arka		
		Rakshak and Arka Samrat.		
		Provide seeds of latest vegetables varieties to		
		farmers.		
		Demonstrate Solar Dryer for Chilli/Vegetables etc.,		
		to farmers, so that the farmers can avail 40%		
		subsidy for Solar Dryers from Horticulture		
		Department.		
		Provide Agro-met advisories to farmers from		
		University through KVK.		
		Develop IFS Model in ½ acre land based on Farm		
		Pond water.		
		Demonstrate Sunhemp crop new variety in the		
		district as it is very valuable in industry.		
		I ake up diagnostic visits at road side villages while		
		traveiling to KVK adopted villages and provide		
		advisories to those villages also.		
		Send reedback of UF Is and FLDs to technologies		
		generating institutes like Agricultural University /		
		ICAR Research institutes.		

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	Agricultural crops + Dairy enterprise		
2	Agricultural crops + Horticultural crops		
3	Agriculture + Horticulture + Dairy enterprise		
Irrigated situation			
1	Agriculture + Dairy enterprise		
2	Agriculture + Horticulture + Dairy enterprise		

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-3	This zone comprises of Gadag, Ron, Mundaragi, Gajendragad and					
	and Region-2 of the	Naragund blocks. Rainfall ranges from 450-600 mm with 30-35 rainy days					
	state	mainly from June - September months. Maximum temperature ranges from					
		36-40 [°] c. This zone is drought prone.					
		Kharif crops grown: Greengram, Groundnut, Onion, Bt. Cotton					
		Chilli, Sunflower, Maize etc					
		Rabi crops grown: Bengalgram, Rabi Sorghum, wheat, sunflower etc					
2	Northern Semi	This zone comprises of Shirahatti and Laxmeshwar blocks. Average rainfall					
	Transitional Zone-8	is 619 mm. Gets rainfall from both South-West and North-East mansoons.					
	and Region-4 of the	Kharif crops grown: Greengram, Sorghum, Bt-cotton, Groundnut,					
	state	Sunflower, Millets, Maize, Onion, Chilli etc					
		Rabi crops grown: Rabi Sorghum, Sunflower, Bengal gram, Wheat etc					

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Very shallow red gravelly loam soils	Less water holding capacity with less runoff and high infiltration rate,	26,625
2	Shallow red gravelly mixed with deep black soils	Less water holding capacity with moderate runoff and high infiltration rate. It contains high sand percent.	10,659
3	Medium deep red clayey soils	Moderate water holding capacity with less runoff and moderate infiltration rate. It contains high clay percent.	25,210
4	Medium deep red gravelly clay soils	Moderate water holding capacity with less runoff and high infiltration rate. It contains high clay percent.	63,163
5	Deep red gravelly clay soils	High water holding capacity with less runoff and less infiltration rate. It contains high clay percent.	8,290
6	Medium deep black clayey soils	Moderate water holding capacity with high runoff and less infiltration	1,50,117
7	Deep black clayey soils	More water holding capacity with low infiltration rate of water & clay content is more than 35 percent	67,444
8	Deep black calcareous clayey soils	More water holding capacity with low infiltration rate and high runoff. It contains more percent of Calcium	92,238
9	Deep alluvial black clayey soils	More water holding capacity with low infiltration rate and high run off.	17,088
10	Deep alluvial clayey soils (salt affected in patches)	More water holding capacity, less infiltration rate and high run off affects the seed germination	1,053
		Total	4,61,887

SI.	Сгор	Area (ha)	Production	Productivity
NO			(Metric tons)	(Kg /ha)
	Cereals			
1	Maize (Protected irrigation)	55364	184140	3326
2	Rabi Sorghum	62967	39606	629
3	Wheat (Irrigated)	16757	22504	1343
	Pulses			
4	Greengram	57368	25012	436
5	Bengalgram	85005	53893	634
6	Redgram	1540	870	565
	Oilseeds			
7	Groundnut	43433	27493	633
8	Sunflower	42025	19205	457
	Commercial crops			
9	Bt. Cotton	17812	13091	735
10	Onion	37227	152258	4.09 tonns
12	Dry chillies	12382	6339	512

2.4. Area, Production and Productivity of major crops cultivated in the district (Reference year: 2015-16)

Source: District Statistical Office

2.5. Weather data

Month	Rainfall (mm)	Temperati	ure ⁰ C	Relative Humidity (%)
		Maximum	Minimum	
January, 2019	00.3	34.20	00.00	52.08
February, 2019	00.2	39.50	10.30	51.97
March, 2019	02.9	41.20	11.30	53.48
April, 2019	22.4	43.30	17.10	54.92
May, 2019	30.8	42.90	21.00	52.49
June, 2019	79.0	41.50	19.20	65.54
July, 2019	91.1	36.10	8.00	74.00
August, 2019	132.9	34.30	19.40	75.00
September, 2019	97.5	35.20	18.00	69.22
October, 2019	206.0	34.00	18.30	72.95
November, 2019	30.90	33.80	14.40	68.38
December, 2019	02.90	34.30	13.80	66.18

* Source: KSDA, Gadag and Karnataka State Natural Disaster Monitoring Centre, Bengaluru

2.6. Production and Productivity of Livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred	15418	25968 Lit. of milk/day	5.22 Kg/day
Indigenous	158588	45944 Lit of milk/day	2.40 Kg/day
Buffalo	80234	64088 Lit. of milk/day	2.80 Kg/day
Sheep			
Crossbred			
Indigenous	313459	158 tons/year (meat)	15 Kg/animal
Goats	172411	134 tons/year (meat)	16 Kg/animal
Pigs			
Crossbred			
Indigenous			
Rabbits			
Poultry birds	158656	72 lakh/year	100 per year
(egg production)			

Source: District Statistical Office Reference year: 2013-14 Note: The data for the year 2019 is not available at District Statics Office / Office of Deputy Directory of AH & VS

2.7 District profile has been **Updated** for 2019 : Yes (Latest available data is uploaded)

2.8 Details of Operational area / Villages

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
1	Gadag	Shirol	Since one year (Since 2019-20)	Crops: Bt.Cotton, Maize, Foxtail millet, vegetable crops & flower crops Enterprise: CB Cows	 Bt. Cotton : Low income due to mono cropping Incidence of sucking pest & mirid bug Incidence of leaf spot & leaf reddening Drudgery in harvesting 	 Demonstration of Bt. Cotton + Greengram (1:1) intercropping system Demonstration of cotton harvesting bag Training on ICM in Bt.Cotton + Greengram Training on IPM in Bt. Cotton Supply of literature Conductance of Field day
					 Maize : Low income due to mono cropping Imabalanced nutrition Incidence of army worm Incidence of Turcicum leaf blight Drudgery during threshing and winnowing of Maize 	 Demonstration on Maize + Redgram (4:2) intercropping system Training on ICM in Maize+Redgram intercropping system Training on IPM in Maize Supply of literature Demonstration on functional clothing kit Conductance of Field day Training on drudgery reduction
					 Foxtail millet : Low productivity due to cultivation of local variety Lack of awareness on importance of millet and value addition 	 Demonstration of high yielding DHFt-109-3 foxtail millet variety Training on production technology of millet crops Training on importance of millets in diet Supply of literature Conductance of Field day
					 Low income due to cultivation of local varieties 	 Demonstration of new varieties of ICAR-IIHR, Bengaluru in vegetable crops

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
						 Training on ICM in vegetable crops Supply of literature Conductance of Field day
					 Flower crops : Low quality and low yields are due to imbalanced nutrients (loose flower buds and improper opening of flower buds and low shelf life) Low yield is also due to incidence of bud borer pest and leaf spot diseases 	 Demonstration on ICM in Chrysanthemum and Gaillardia Training on ICM in flower crops Supply of literature Field day
					 Dryland horticulture : Less profit from existing cropping pattern due to vagaries of mansoon and lack of crop diversification 	 Demonstration of Agri- horticulture system with Cashew crop Training on tree based farming system Supply of literature
					 Borewell : Decreased ground water level and less water availability for irrigation 	 Training on recharge of ground water through borewell Supply of literature Field visit and interactive meetings at site
					 CB Cows: Low productivity of milk due to non-availability of green fodder throughout the year. 	 Demonstration on fodder and azolla production, Hydroponic fodder production and silage making Supply of literature Field day
					Nutrition and health	 Demonstration on nutri-farms for year round nutritional security among farm families Training on balanced diet and nutrition Training on healthy foods for healthy life

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
						• Training on importance of millets in diet
					Grain storage : • Incidence of stored grain pest	 Demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags
2	Mundaragi block	Shingataray ankeri	Since one year (Since 2019-20)	Crops: Greengram, Bt.Cotton, Maize, Foxtail millet, Spreading Groundnut, vegetable crops & flower crops Enterprise: CB Cows	 Bt. Cotton : Low income due to mono cropping Incidence of sucking pest & mirid bug Incidence of leaf spot & leaf reddening Drudgery in harvesting 	 Demonstration on Bt. Cotton + Greengram (1:1) intercropping system Training on ICM in Bt.Cotton + Greengram Training on IPM in Bt. Cotton Supply of literature Demonstration on cotton harvesting bag Field day
					 Maize : Low income due to mono cropping Imabalanced nutrition Incidence of army worm Incidence of Turcicum leaf blight Drudgery during threshing and winnowing of Maize 	 Demonstration on Maize + Redgram (4:2) intercropping system Training on ICM in Maize+Redgram intercropping system Training on IPM in Maize Supply of literature Demonstration on Functional Clothing Kit Field day
					 Foxtail millet : Low productivity due to cultivation of local variety 	 Demonstration of high yielding DHFt-109-3 foxtail millet variety Training on production technology of millet crops Supply of literature Field day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
					 Spreading Groundnut : Low yield is due to incidence of leaf minor and leaf spot 	 Training on ICM practices in Spreading Groundnut
					 Greengram : Low yield due to incidence of powdery mildew 	 Demonstration on ICM practices in Greengram Training on ICM practices in Greengram Supply of literature Field day
					 Vegetable crops : Low income due to cultivation of low yielding local varieties 	 Demonstration of new varieties of ICAR-IIHR, Bengaluru in vegetable crops Training on ICM practices in vegetable crops Supply of literature Field day
					 Flower crops : Low quality and low yields are due to imbalanced nutrients (loose flower buds and improper opening of flower buds and low shelf life) Low yield is also due to incidence of bud borer pest and leaf spot diseases 	 Demonstration on ICM practices in Chrysanthemum and Gaillardia Training on commercial flower crops Supply of literature Field day
					 Dryland horticulture : Less profit from existing cropping pattern due to vagaries of mansoon and lack of crop diversification 	 Demonstration of Agri- horticulture system with Cashew crop Training on tree based farming system Supply of literature
					 CB Cows Low productivity of milk due to non-availability of green fodder throughout the year. 	 Demonstration on fodder and azolla production Supply of literature on Fodder & Azolla production Field day on fodder production

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
					 Nutrition and health Less consumption of fruits and vegetables 	 Demonstration on nutri-farms for year round nutritional security among farm families Training on balanced diet and nutrition Training on healthy foods for healthy life Training on importance of millets in diet
					 Grain storage Incidence of stored grain pest 	 Demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags
3	Shirahatti	Chikkasavan ur	Since one year (Since 2019-20)		 Maize: Low income due to mono cropping Imabalanced nutrition Incidence of army worm Incidence of Turcicum leaf blight Drudgery during threshing and winnowing of Maize 	 Demonstration of Maize + Redgram (4:2) intercropping system Training on ICM practices Maize+Redgram intercropping system Training on IPM practices in Maize Supply of literature Demonstration on Functional clothing kit Field day
					 Foxtail millet : Low productivity due to cultivation of local variety Lack of awareness on importance of millet and value addition 	 Demonstration of high yielding DHFt-109-3 foxtail millet variety Demonstration of millet papad Training on production technology of millet crops Supply of literature Field day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
					 Spreading Groundnut : Low yield due to incidence of leaf minor and leaf spot 	 Training on ICM practices in Spreading Groundnut
					Summer Groundnut : • Incidence of leaf minor and leaf spot reduce the yields	 Demonstration on ICM practices in summer groundnut (NMOOP) Training on pest and disease management Supply of literature Field day
					Greengram : • Low yield due to incidence of powdery mildew	 Demonstration on ICM practices in Greengram with DDGV-2 variety Training on ICM practices in Greengram
					 Vegetable crops : Low income due to cultivation of low yielding local varieties 	 Demonstration of new varieties of ICAR-IIHR, Bengaluru in vegetable crops Training on ICM in vegetable crops Supply of literature Field day
					 White Onion : Low productivity due to cultivation of low yielding local variety 	 Assessment of White Onion varieties Training on production technology in white onion
					 Flower crops : Low quality and low yields are due to imbalanced nutrients (loose flower buds and improper opening of flower buds and low shelf life) Low yield is also due to incidence of bud borer pest and leaf spot diseases 	 Demonstration on ICM practices in Chrysanthemum and Gaillardia Training on commercial flower crops Supply of literature Field day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
					 Dryland horticulture : Less profit from existing cropping pattern due to vagaries of mansoon and lack of crop diversification 	 Demonstration of Agri- horticulture system with Cashew crop. Training on tree based farming system Supply of literature
					Sericulture : • Low quality mulberry leaves reduce cocoon yields CB Cows : • Low productivity of milk due to non-availability of green fodder	 Demonstration on organic input production and usage in mulberry crop Demonstration on fodder and azolla production Supply of literature on Fodder &
					throughout the year. Nutrition and health :	Azolla production • Field day on fodder production • Demonstration on nutri-farms for
					Less consumption of fruits and vegetables	 year round nutritional security among farm families Training on balanced diet and nutrition Training on importance of millets in diet
					Grain storage: Incidence of stored grain pest	 Demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags
4	Naragund	Kalakeri	Since one year (Since 2019-20)		 Greengram: Low productivity due to usage of low yielding local variety Incidence of yellow mosaic virus Incidence of powdery mildew Incidence of Spital bug and pod borer 	 Demonstration on ICM practices in DGGV-2 variety in Greengram Training on ICM practices in Greengram Supply of literature Field day

SI. No.	Taluk	Name of the village	How long the village is covered under operational area of the KVK	Major crops & enterprises	Major problems identified	Identified Thrust Areas
					 Bengalgram : Low yield due to cultivation of low yielding local variety Low yield due to incidence of wilt & rust and incidence of pod borer 	 Assessment of BGD-111 and DBGV-204 varieties OFT on assessment of seed treatment with Trichoderma and soil treatment with Trichoderma, neem cake and FYM for wilt control Training on ICM in Bengalgram Supply of literature Field day
					 Red Onion : Low productivity due to cultivation of low yielding local variety Incidence of thrips reduces the yields 	 Assessment of Bhima Super variety Training on ICM in Red Onion Supply of literature Field day
					 Rabi Sorghum : Low productivity due to usage of local variety Incidence of smut disease Incidence of shoot fly and stem borer 	 Demonstration on ICM practices in SPV-2217 variety Training on ICM practices in Rabi Sorghum Supply of literature Field day
					Drudgery :Drudgery in farm activities	• Training on drudgery reducing equipments in farm activities
					 Nutrition and health : Less consumption of millets, fruits and vegetables in daily diet 	• Training on health and nutrition, importance of millets in diet
					Grain storage Incidence of stored grain pest 	 Demonstration of Super grain bags Training on management of stored grain pests Home visits and interactive meetings Supply of literature Supply of super grain bags

Details of Benchmark Information collected from DFI villages

SI.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.)
1	Gadag	Gadag	Shirol	Maruti Shivappa Walikar	90000	81600	8400
2	Gadag	Gadag	Shirol	Veeranagouda Mahadevagouda Doddagouda	75600	51600	24000
3	Gadag	Gadag	Shirol	Holalendragouda Veeranagouda Sannagoudar	62400	52800	9600
4	Gadag	Gadag	Shirol	Virupaxagouda Mallanagouda Patil	50000	40000	10000
5	Gadag	Gadag	Shirol	Basayya Veerayya Hiremath	90000	60000	30000
6	Gadag	Gadag	Shirol	Devendragouda Channabasanagouda Patil	150000	90000	60000
7	Gadag	Gadag	Shirol	Kuberagouda Veerabhadragouda Doddagoudra	100000	70000	30000
8	Gadag	Gadag	Shirol	Channabasavanagouda Gurunagouda Patil	44400	28800	15600
9	Gadag	Gadag	Shirol	Shankaragouda Virupaxagouda Patil	78000	60000	18000
10	Gadag	Gadag	Shirol	Gurayya Kotrayya Dandin	64800	54000	10800
11	Gadag	Gadag	Shirol	Basanagouda Mahantagouda Goudar	300000	250000	50000
12	Gadag	Gadag	Shirol	Channabasanagouda Basanagouda Doddagoudra	100000	75000	25000
13	Gadag	Gadag	Shirol	Parameshappa Virupaxappa Ramagiri	50000	40000	10000
14	Gadag	Gadag	Shirol	Shivanandayya Rudrayya Dandin	150000	130000	20000
15	Gadag	Gadag	Shirol	Yallappa Durgappa Durgappanavar	80000	65000	15000

SI.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.)
16	Gadag	Gadag	Shirol	Rudragouda Fakirgouda Doddagoudar	76800	40800	36000
17	Gadag	Gadag	Shirol	Virupaxagouda Barangouda Doddagoudra	100000	90000	10000
18	Gadag	Gadag	Shirol	Basavaraj Shamaraj Madolli	228000	204000	24000
19	Gadag	Gadag	Shirol	Siddaramayya Somashekarayya Nagavi	196800	100800	96000
20	Gadag	Gadag	Shirol	Ningayya Mahadevayya Dandin	225000	200000	25000
21	Gadag	Gadag	Shirol	Shantveerayya Veerabhadrayya	70800	63600	7200
22	Gadag	Gadag	Shirol	Nilamma Virupakshagouda Patil	218400	156000	62400
23	Gadag	Gadag	Shirol	Veeranagouda Mahantagouda Doddagoudra	60000	50000	10000
24	Gadag	Gadag	Shirol	Laxman Ramappa Talawar	600000	400000	100000
25	Gadag	Gadag	Shirol	Iranna Basavaraj Oli	120000	110400	9600
26	Gadag	Gadag	Shirol	Satrappa Yallappa Venkatapur	50000	55000	5000
27	Gadag	Gadag	Shirol	Shivayya Mallayya Dandin	80000	70000	10000
28	Gadag	Gadag	Shirol	Rudragouda Dyavanagouda Doddagoudra	40000	45000	5000
29	Gadag	Gadag	Shirol	Siddalingayya Mallayya dandin	85000	50000	35000
30	Gadag	Gadag	Shirol	Prabhugouda Siddanagouda Sanagouda	40000	35000	5000
31	Gadag	Gadag	Shirol	Basayya Veerbhadrayya Dandin	150000	100000	50000

SI.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.)
32	Gadag	Gadag	Shirol	Shambayya Mallayya Pujar	130000	100000	30000
33	Gadag	Gadag	Shirol	Mahantesh Chandragouda Doddagoudra	52800	49200	3600
34	Gadag	Gadag	Shirol	Basanagouda Gurungouda Patil	300000	250000	50000
35	Gadag	Gadag	Shirol	Shanmukayya Kotrayya Dandin	62400	31200	31200
36	Gadag	Gadag	Shirol	Chanbasappa Mallayya Dandin	63600	48000	15600
37	Gadag	Gadag	Shirol	Basayya Veerayya Dandin	180000	140000	40000
38	Gadag	Gadag	Shirol	Neelakantagouda Parakkagouda Doddagoudra	95000	80000	15000
39	Gadag	Gadag	Shirol	Channabasayya Kotrayya Dandin	300000	250000	50000
40	Gadag	Gadag	Shirol	Mallikarjunayya Shivayya Hiremath	600000	450000	150000
41	Gadag	Gadag	Shirol	Nilakantayya Gurayya Dandin	96000	62400	33600
42	Gadag	Gadag	Shirol	Siddayya Veerayya Dandin	102000	90600	11400
43	Gadag	Gadag	Shirol	Veerupaxayya Veerayya Dandin	212400	138000	74400
44	Gadag	Gadag	Shirol	Basanagouda Govindagouda Patil	90000	80000	10000
45	Gadag	Gadag	Shirol	Veeranagoud Shantagoud	45600	34800	10800
46	Gadag	Gadag	Shirol	Channanagouda Shantagoud	61200	33600	27600
47	Gadag	Gadag	Shirol	Gangamma Sidramayya Hiremath	198000	81600	116400

SI.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.)
48	Gadag	Gadag	Shirol	Shankarayya Mallayya Majiguda	144000	137400	6600
49	Gadag	Gadag	Shirol	Hanamantappa Yallappa Olekar	120000	96000	24000
50	Gadag	Gadag	Shirol	Channabasanagoud Mahadegoud Sannagouda	550000	450000	50000
51	Shirahatti	Shirahatti	Chikkasavanur	Mallanagouda Kotragouda Patil	558000	282000	276000
52	Shirahatti	Shirahatti	Chikkasavanur	Mallappa Mahadevappa Goodachihalla	147600	84000	63600
53	Shirahatti	Shirahatti	Chikkasavanur	Mallappa Nagappa Nagappa	150000	130000	20000
54	Shirahatti	Shirahatti	Chikkasavanur	Smt.Geeta Yanakappa Hebbal	90000	70000	20000
55	Shirahatti	Shirahatti	Chikkasavanur	Mouneshwar Mahadevappa Gudadavara	200000	150000	50000
56	Shirahatti	Shirahatti	Chikkasavanur	Fakki Reddy Govindappa Tevari	450000	350000	50000
57	Shirahatti	Shirahatti	Chikkasavanur	Fakirgouda Nenganagouda Patil	97200	57600	39600
58	Shirahatti	Shirahatti	Chikkasavanur	Channabasangouda Fakeeragouda Patil	300000	250000	50000
59	Shirahatti	Shirahatti	Chikkasavanur	Yallappa Shivappa Achchalli	200000	150000	50000
60	Shirahatti	Shirahatti	Chikkasavanur	Narasappa Nagappa Gokavi	175200	129600	45600
61	Shirahatti	Shirahatti	Chikkasavanur	Tirakappa Nagappa Gokavi	176400	117000	59400
62	Shirahatti	Shirahatti	Chikkasavanur	Narasappa Devappa Kuri	115800	71100	44700
63	Shirahatti	Shirahatti	Chikkasavanur	Narasappa Ramanna Bellatti	300000	230000	70000

SI.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.)
64	Shirahatti	Shirahatti	Chikkasavanur	Mahadevappa Basappa Kanakuri	234000	200000	34000
65	Shirahatti	Shirahatti	Chikkasavanur	Chennappa Basappa Goachihal	96000	72000	24000
66	Shirahatti	Shirahatti	Chikkasavanur	Basappa Dudanigappa Gudadavar	100000	80000	20000
67	Shirahatti	Shirahatti	Chikkasavanur	Hanumappa Sivappa Pujar	156000	112800	43200
68	Shirahatti	Shirahatti	Chikkasavanur	Govindaraddi Narasappa Shagoti	500000	350000	150000
69	Shirahatti	Shirahatti	Chikkasavanur	Andanagouda Shankaragouda Patil	200000	150000	50000
70	Shirahatti	Shirahatti	Chikkasavanur	Hemaraddi Narasappa Bairapur	160000	140000	20000
71	Shirahatti	Shirahatti	Chikkasavanur	Rajashekhar Narasappa Bairapur	350000	300000	50000
72	Shirahatti	Shirahatti	Chikkasavanur	Kotragouda Basanagouda Patil	156000	148800	7200
73	Shirahatti	Shirahatti	Chikkasavanur	Ramanna Shivappa Achalli	70000	60000	10000
74	Shirahatti	Shirahatti	Chikkasavanur	Smt. Narasamma Sannanarasanagouda Patil	300000	250000	50000
75	Shirahatti	Shirahatti	Chikkasavanur	Mahantesh Chandrappa Gudadavar	72000	60000	12000
76	Shirahatti	Shirahatti	Chikkasavanur	Ningappa Govindappa Gudadavar	120000	96000	24000
77	Shirahatti	Shirahatti	Chikkasavanur	Guddanagouda Channabasanagouda Patil	124800	57600	67200
78	Shirahatti	Shirahatti	Chikkasavanur	Shankaragouda Narasanagouda Patil	60000	55000	5000
79	Shirahatti	Shirahatti	Chikkasavanur	Somanagouda Shivappa Yalavatti	450000	400000	50000

SI.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.)
80	Shirahatti	Shirahatti	Chikkasavanur	Neelanagouda Basanagouda Patil	140000	120000	30000
81	Shirahatti	Shirahatti	Chikkasavanur	Ramesh Govindappa Shagoti	500000	400000	100000
82	Shirahatti	Shirahatti	Chikkasavanur	Vishwanathraddi Mallappa Gokavi	400000	300000	100000
83	Shirahatti	Shirahatti	Chikkasavanur	Narasanagouda Basanagouda Yellagoudru	138000	105600	32400
84	Shirahatti	Shirahatti	Chikkasavanur	Shekappa Narasappa Shagoti	900000	700000	200000
85	Shirahatti	Shirahatti	Chikkasavanur	Somaraddi Mallappa Gokavi	800000	600000	200000
86	Shirahatti	Shirahatti	Chikkasavanur	Narasappa Narasappagouda Shagoti	160800	120000	30800
89	Shirahatti	Shirahatti	Chikkasavanur	Santosh Ramanna Godachihal	84000	36000	48000
90	Shirahatti	Shirahatti	Chikkasavanur	Fakiragouda Narasimhagouda	72000	60000	12000
91	Shirahatti	Shirahatti	Chikkasavanur	Ramesh Bhimanna	144000	100000	44000
92	Shirahatti	Shirahatti	Chikkasavanur	Narasappa Fakkirappa Tevari	180000	150000	30000
93	Shirahatti	Shirahatti	Chikkasavanur	Tirakappa Gulappa Gokavi	195600	150000	35600
94	Shirahatti	Shirahatti	Chikkasavanur	Ramesh Virupaxappa Shagoti	92400	57600	34800
95	Shirahatti	Shirahatti	Chikkasavanur	Suresh Irappa Navi	90000	80000	10000
96	Shirahatti	Shirahatti	Chikkasavanur	Chanbasavagouda Basavanagouda Patil	150000	120000	30000
97	Shirahatti	Shirahatti	Chikkasavanur	Narsappa Fakirappa Shagoti	130000	110000	20000

SI.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.)
98	Shirahatti	Shirahatti	Chikkasavanur	Mallappa Irappa Navi	82800	75000	7800
99	Shirahatti	Shirahatti	Chikkasavanur	Govindappa Pandappa Giradannavar	130000	110000	20000
100	Shirahatti	Shirahatti	Chikkasavanur	Boomaraddi Nagappa Gokavi	130000	100000	30000

2.9 Priority thrust areas

S.	Thrust area
No	
1	Soil fertility management through production and application of bio-manures
2	Promotion of intercropping systems in Maize and Bt.Cotton crops
5	Promotion of JAKI-9218 & BGD-111-01 varieties of Bengalgram
6	Promotion of SPV-2217 variety of Rabi Sorghum & DHFt-109-3 variety of foxtail millet
8	Assessment of Bheema Super variety of Onion
9	Promotion of ICM practices in White Onion
10	Crop diversification through promotion of Cashew & Ashwagandha
11	Promotion of nutri-farms
12	Popularisation of drudgery reduction equipments
13	Primary processing in millets
14	Livestock nutrition for higher milk productivity

PART III - TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities

	0	FT		FLD				
	1	1			2			
Numb	per of OFTs	Number of farmers		Number of FLDs		Number of farmers		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
5	5	19	19	18	18	432	432	

	Trai	ning		Extension Programmes				
	:	3		4				
Numbe	er of Courses	Number of Participants		Number of Programmes		Number of participants		
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
200	231	5000	6730	1100	1183	20000	36708	

Seed Pro	oduction (Q)	Planting materials (Nos.) 6			
	5				
Target	Achievement	Target	Achievement		
75.00	83.93	50000	66220		

Livestock, poultry stra	ins and fingerlings (No.)	Bio-pro	ducts (Kg)
	1		ð
Target	Achievement	Target	Achievement
100	150	500	740

					Interventions										
S.	Thrust	Crop/	Identified	Title of	Title of	Number of	Number of	Number of Training	Extension	Supply of	Supply of planting	Supply of	Supply o produ	of bio cts	
No	area	Enterprise	Problem	OFT if any	FLD if any	Training (farmers)	Training (Youths)	(extension personnel)	(No.)	seeds (Qtl.)	materials (No.)	livesto- ck (No.)	No.	Kg	
1	Varietal demonstra tion	Millet	Low productivity of local crops	-	Millet Cafeteria	3	2	1	15	0.5	0	0	0	0	
2	Intercroppi ng system	Maize+ Redgram	Low income due to sole crop		Maize+ Redoram					0.6			 Tricho derma 	1	
				-	intercroppi ng system	2	0	0	12	(Redgra m)	0	0	• Rhizo bium	4	
3	Thrips Managem ent	Onion	Thrips incidence	Assessme nt of thrips managem ent practices in Onion crop	-	1	0	0	8	0	0	0	Lecanic illium	1	
4	ICM	Greengram	Low productivity of local variety (Shining moong)	-	Demonstra tion of DGGV-2 variety	4	0	0	10	4.23	0	0	0	0	
5	Varietal assessme nt	Red Onion	Low income due to cultivation of local variety	Assessmen t of Red Onion varieties of higher productivity	-	2	0	0	15	8.0	0	0	0	0	
6	Varietal assessme nt	White Onion	Low income due to cultivation of local	Assessmen t of White Onion varieties of higher	-	2	0	0	12	0.12	0	0	0	0	

3.B1. Abstract of interventions undertaken

								Interver	ntions					
S.	Thrust	Crop/	Identified	Title of	Title of	Number of	Number of	Number of Training	Extension	Supply of	Supply of planting	Supply of	Supply produ	of bio ucts
NO	area	Enterprise	Problem	OFT if any	FLD if any	Training (farmers)	Training (Youths)	(extension personnel)	(No.)	seeds (Qtl.)	materials (No.)	livesto- ck (No.)	NO.	Kg
			variety	productivity								, ,		
7	IPDM in Chrysanth emum	Chrysanthe mum	 Low quality and low yields due to imbalanced nutrients (loose flower buds and improper opening of flower buds and low shelf life) Low yield due to incidence of bud borer pest and leaf spot diseases 	-	IPDM in Chrysanth emum crop	2	-	-	12	-	-	-	-	-
8	IPDM in Gaillardia	Gaillardia	 Low quality and low yields due to imbalanced nutrients (loose flower buds and improper opening of flower buds and low 	-	IPDM in Gaillardia	2	-	-	10	-	-	-	-	-

								Interver	ntions					
S.	Thrust	Crop/	Identified	Title of	Title of	Number of	Number of	Number of Training	Extension	Supply of	Supply of planting	Supply of	Supply produ	of bio ucts
NO	area	Enterprise	Problem	OFT if any	FLD if any	Training (farmers)	Training (Youths)	(extension personnel)	(No.)	seeds (Qtl.)	materials (No.)	livesto- ck (No.)	NO.	Kg
			shelf life) • Low yield due to incidence of bud borer pest and leaf spot diseases											
9	Climate Resilient crop		Absence of resilient crops suitable for changing climate in the district	-	Demonstra tion of climate resilient crop	1	-	-	8	0.40	-	-	-	-
10	Health & Nutrition	Nutri-farm	Nutrition deficiency in women and children	-	FLD on Nutri-farm	6	-	-	24	0.12	64	-	3	12
11	Grain Storage	Grain storage	Loss of grains due to incidence of stored grain pests	-	Super grain bags	2	-	-	4	-	18 bags	-	-	-
12	Nutrition Managem ent in dairy animals	Fodder and Azolla	Low productivity of milk in CB cow due to Non- cultivation of	-	Demonstra tion of Fodder Cafeteria and Azolla Production	4	4	0	1	 Lucerne : 1 Kg Hedge Lucerne : 1.0 Kg Stylo santhes hemata: 	 Hybrid Napier-6 slips : 4366 Nos. Perennial sorghum seeds of COF531 	0	0	0

								Interven	ntions					
S.	Thrust	Crop/	Identified	Title of	Title of	Number of	Number	Number of Training	Extension	Supply	Supply of planting	Supply of	Supply produ	of bio ıcts
No	area	Enterprise	Problem	OFT if any	FLD if any	Training (farmers)	Training (Youths)	(extension personnel)	activities (No.)	seeds (Qtl.)	materials (No.)	livesto- ck (No.)	No.	Kg
			perennial fodder and grass species							0.6 Kg • Azolla culture: 10 Kg	variety: 2.0 Kg • Grazing guinea grass slips: 8720 • Rhodes grass slips : 14520 • Signal grass : 14520			
13	Nutrition Managem ent in dairy animals	Silage production	Low productivity of milk in CB Cow due to Non availability of green fodder throughout the year	-	Demonstra tion of silage production	4	4	0	1	0	0	0	0	0
14	Nutrition Managem ent in dairy animals	Feeding of Area Specific Mineral Mixture			Demonstrat ion of Feeding Area Specific Mineral Mixture to enhance milk yield	2	0	0	8	0	0	0	0	0
15	Nutrition Managem ent in dairy	Hydroponi c Fodder Production	Low productivity of milk in CB Cow	-	Introductio n of Hydroponic Fodder	2	2	0	1	0	0	0	0	0

				Interventions											
S.	Thrust	Crop/	Identified	Title of	Title of	Number of	Number of	Number of Training	Extension	Supply of	Supply of planting	Supply of	Supply produ	of bio icts	
No	area	Enterprise	Problem	OFT if any	FLD if any	Training (farmers)	Training (Youths)	(extension personnel)	activities (No.)	seeds (Qtl.)	materials (No.)	livesto- ck (No.)	No.	Kg	
	animals		due to Non availability of green fodder throughout the year		Production										
16	ICM	Rabi Sorghum	Low productivity of local M- 35-1 variety	-	ICM in Rabi Sorghum	2	0	1	10	0.6 (Greeng ram)	0	0	0	5	
17	Intercroppi ng	Bt. Cotton + Greengra m	Low productivity in mono cropping	-	Intercroppi ng with Greengram crop in Bt. Cotton	6	0	1	14	0.60	0	0	0	5	
18	ICM	Bengalgra m	Low productivity of local variety	-	ICM in JAKI-9218 variety	5	0	1	13	2	0	0	0	10	
19	Varietal assessme nt	Bengalgra m	Low productivity in JG-11 variety	Assessme nt of BGD- 111-1 and DBGV-204 varieties for higher productivit y	-	4	0	1	17	1.20	0	0	0	4	
20	IPM	Bengalgra m	Incidence of wilt and pod borer	Assessme nt of wilt managem ent practices	-	2	0	1	22	0	0	0	0	25	
21	Vegetable crop cafeteria	Ridge gourd, Dolichos	Low productivity and low	-	Demonstrat ion on vegetable	4	0	0	18	0.49	0	0	0	0	

				Interventions											
S.	Thrust	Crop/	Identified	Title of	Title of	Number	Number	Number of	Extension	Supply	Supply of	Supply of	Supply produ	of bio Icts	
No	area	Enterprise	Problem	OFT if any	FLD if any	Training (farmers)	Training (Youths)	(extension personnel)	activities (No.)	seeds (Qtl.)	materials (No.)	livesto- ck (No.)	No.	Kg	
		bean, Coriander, French bean & Okra	income due to non- availability of improved vegetable varieties		crop cafeteria										
22	Dryland horticultur e	Cashewnu t	Low profit from existing cropping pattern due to vagaries of mansoon and lack of crop diversificati on	-	Demonstrat ion of agri- horticulture system	3	0	0	15	0	310	0	0	0	
23	Organic farming	Mulberry	Non- practices of organic farming in Mulberry cultivation	-	Demonstrat ion of organic practices in Mulberry crop	1	0	0	25	0	0	0	0	20	

3.B2. Details of technology used during reporting period

c					No. o	f programmes o	conducted
J.	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others
NO							(Extension activities)
1	2	3	4	5	6	7	8
1	Millet Cafeteria	UAS, Dharwad	Millet	0	5	6	15

e					No. o	of programmes	conducted
S. No	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Extension activities)
2	Maize+Redgram intecropping system	UAS, Dharwad	Maize+Redgram	0	20	2	10
3	Thrips management	UHS, Bagalkot / ICAR-DOGR, Pune	Onion	5	0	4	8
4	Varietal assessment	ICAR-DOGR, Pune	Red Onion	3	0	2	15
5	IPDM in Chrysanthemum	ICAR-IIHR, Bengaluru	Chrysanthemum	0	5	2	12
6	IPDM in Gaillardia	ICAR-IIHR, Bengaluru	Gaillarida	0	5	2	10
7	Climate Resilient crop	CSIR-CIMAP, Lucknow	Ashwagandha	0	10	1	8
8	Super grain bags	EVOH-Save grain bags, Save grains advanced solutions private limited	Grain storage	0	18	2	4
9	Nutri-farm	UAS, Bengaluru	Nutrition Garden	0	5	14	24
10	Demonstration of Fodder Cafeteria and Azolla Production	ICAR-IGFRI, RRS, Dharwad & UAS, Dharwad	CB Cows	0	10	4	6
11	Demonstration of silage production	NIANP, Bengaluru	CB Cows	0	5	6	4
12	Introduction of Hydroponic Fodder Production	UAS, Bengaluru	CB Cows	0	10	3	5
13	Demonstration of SPV-2217 variety in Rabi Sorghum	UAS, Dharwad	Rabi Sorghum	0	20	3	10
14	Demonstration of Bt. Cotton + Greengram intercropping system	UAS, Dharwad	Bt. Cotton and Greengram	0	20	7	14
15	Demonstration of JAKI-9218 variety in Bengalgram crop	UAS, Dharwad	Bengalgram	0	10	6	13
16	Demonstration of Vegetable crop cafeteria	UHS, Bagalkot	Ridgegourd, Dolichos bean, Coriander, French bean and Okra	0	5	4	18
17	Demonstration of Agri- Horticulture system	UHS, Bagalkot	Cashewnut	0	5	3	15
18	Demonstration of organic practices in Mulberry crop	UAS, Dharwad	Mulberry	0	5	1	25
19	Assessment of White Onion varieties for higher productivity	ICAR-DOGR, Pune	White Onion	3	0	2	12
20	Assessment of Bengalgram varieties for higher productivity	UAS, Dharwad	Bengalgram	3	0	5	17

e					No. o	f programmes o	conducted
No	Title of Technology	Source of technology	Crop/enterprise	OFT	FLD	Training	Others (Extension activities)
21	Assessment of wilt management practices in Bengalgram crop	UAS, Dharwad	Bengalgram	6	0	3	22
22	Demonstration of DGGV-2 variety in Greengram crop	UAS, Dharwad	Greengram	0	20	4	10
23	Demonstration of feeding Area Specific Mineral Mixture to enhance milk yield	NIANP, Bengaluru	Milch animals	0	10	4	15

3.B2 contd..

							No	o. of farme	ers covere	ed						
		O	-T			FL	D			Trai	ning		Othe	rs (Extens	sion activ	ities)
	Ger	neral	SC	/ST	Gen	eral	SC	/ST	Gen	neral	SC	/ST	Gen	eral	SC	/ST
	М	F	Μ	F	М	F	Μ	F	М	F	Μ	F	М	F	Μ	F
	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	0	0	0	0	5	0	0	0	100	70	8	2	120	50	15	6
2	0	0	0	0	6	0	14	0	17	0	46	0	80	23	12	10
3	5	0	0	0	0	0	0	0	28	2	4	2	56	40	5	3
4	3	0	0	0	0	0	0	0	39	2	11	0	76	30	43	5
5	0	0	0	0	4	1	0	0	36	9	3	0	68	12	34	3
6	0	0	0	0	5	0	0	0	31	4	3	0	53	10	25	0
7	0	0	0	0	10	0	0	0	19	0	3	0	80	0	38	0
8	0	0	0	0	0	18	0	0	4	31	0	0	0	35	0	10
9	0	0	0	0	0	6	0	0	23	94	0	7	55	132	16	25
10	0	0	0	0	0	0	0	0	10	6	2	2	6	4	8	6
11	0	0	0	0	0	0	0	0	75	193	16	27	35	56	15	22
12	0	0	0	0	4	1	0	0	41	0	9	0	26	2	2	0
13	0	0	0	0	15	2	3	0	80	20	15	5	86	6	15	12
14	0	0	0	0	18	2	0	0	65	12	8	2	54	5	12	10
15	0	0	0	0	10	0	0	0	110	50	12	8	82	15	16	12
16	0	0	0	0	5	0	0	0	80	19	6	5	56	18	22	10
17	0	0	0	0	5	0	0	0	60	10	12	8	65	16	14	8
18	0	0	0	0	4	1	0	0	16	14	0	0	36	14	6	4
19	3	0	0	0	0	0	0	0	40	12	2	0	54	18	10	6
20	3	0	0	0	0	0	0	0	53	17	12	8	62	12	8	2
21	6	0	0	0	0	0	0	0	64	12	10	4	58	23	9	3

							No	o. of farme	ers covere	ed						
		O	٠T			FL	.D			Trai	ning		Othe	rs (Extens	sion activi	ties)
	General SC/ST		/ST	Gen	eral	SC	/ST	Gen	eral	SC	/ST	Gen	eral	SC	ST	
	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
22	0	0	0	0	18	2	0	0	57	13	16	5	45	0	12	0
23	0	0	0	0	6	2	2	0	46	50	20	12	37	32	12	15

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation			1		2					3
Integrated Pest Management			1		1					2
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			2		3					5

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

Thematic areas Cereals Oilseeds Pulses Commercial Vegetables Fruits Flower Plantation Tuber TOTAL											
\mathbf{v}	Thematic areas	Cereals	Oilseeds	Pulses	Commercial	Vegetables	Fruits	Flower	Plantation	Tuber	TOTAL

		Crops		crops	Crops	
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 : NIL

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

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

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

TOTAL			

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
	Bengalgram	Assessment of potential productivity of NBEG-3 & BGD- 111-01 varieties under irrigated condition	5	5	1.2 ha / trial (Total : 6 ha)
	Onion	Assessment of Red Onion 3 3		1.2 ha / trial (Total : 3.6 ha)	
	Onion	Assessment of White Onion varieties for higher productivity	3	3	1.2 ha / trial (Total : 3.6 ha)
Integrated Pest Management	Onion	Assessment of thrips management practices in Onion crop	5	5	1.2 ha / trial (Total : 6 ha)
	Bengalgram	Assessment of wilt management practices in Bengalgram crop	6	6	1 ha / trial (Total : 5 ha)
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Pasauraa Consonvation Tachnology					
Resource conservation rectinology					
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
----------------------	------	------------------------------------	---------------	-------------------	---
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total			22	22	

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

Thematic areas	Сгор	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management					
Integrated Disease Management					
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
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 : 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.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.C1. Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (No. of pods/plant)	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Bengalgram Protective irrigation Productivity of JG-11 variety Assessment of BGD- 111-01 & DBGV-204 varieties for higher productivity		T.O.1 (Farmers' practice) Cultivation of JG-11 variety	-	9.93	Qtl/ha	37.0	16480	1.66	-			
	Decrease in the	Assessment of BGD- 111-01 &		T.O.2 Cultivation of JAKI-9218 variety	UAS, Dharwad	10.71	Qtl/ha	39.6	19225	1.76	-	
	ivity DBGV-204 11 varieties for ty higher	3	T.O.3 Assessment of BGD-111- 01 variety	IARI-RRC, Dharwad	12.50	Qtl/ha	47.6	25543	1.98	-		
			productivity		T.O.4 Assessment of DBGV-204 variety	UAS, Dharwad	11.37	Qtl/ha	47.3	21477	1.84	

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

1. Title of Technology Assessed : Assessment of BGD-111-01 & DBGV-204 variety for higher productivity

2. Performance of the Technology on specific indicators

	Performance indicators									
Technology Assessed	Grain Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	% increase in yield	No. of pods/plant					
Farmer's practice: Cultivation of JG-11 variety	9.93	16480	1.66	-	37.0					
Recommended practice: Cultivation of JAKI-9218 variety	10.71	19225	1.76	13.56	39.6					
Alternate practice-1: Assessment of BGD-111-01 variety	12.50	25543	1.98	38.27	47.6					
Alternate practice-1: Assessment of DBGV-204 variety	11.37	21477	1.84	28.03	47.3					

3. Specific Feedback from farmers: Yield performance of BGD-111-01 variety is higher than JAKI-9218 variety

4. Specific Feedback from Extension personnel and other stakeholders: Make BGD-111-01 variety seeds available to the farmers through KVK &

OFT farmers in higher quantity

5. Feedback to Research System based on results and feedback received: NIL

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (No. of wilt plants/Sq.mt)	Net Return Rs. / Ha	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
					T.O.1 (Farmers' practice) Seed treatment with Captan 2.5 gm		12.08	Qtl/ha	0.88	22966	1.87	-
Bengalgram	Assessment of wilt management	5	T.O.2 Seed treatment with Trichoderma 10 gm/Kg of seeds	UAS, Dharwad	13.48	Qtl/ha	0.40	28007	2.03	-		
			Bengalgram		T.O.3 Seed treatment with Trichoderma @ 10 gm/Kg + Soil treatment with Trichoderma @ 2 Kg mixed with Neem cake @ 50 Kg and FYM @ 100 Kg	UAS, Dharwad	15.74	Qtl/ha	0.19	34635	2.16	

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

1. Title of Technology Assessed : Assessment of wilt management practices in Bengalgram crop

2. Performance of the Technology on specific indicators

	Performance indicators									
Technology Assessed	Grain Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	% increase in yield	Plant population / Sq. mt.					
Farmer's practice: Seed treatment with Captan 2.5 gm	12.08	22966	1.87	-	23.00					
Recommended practice: Seed treatment with Trichoderma 10 gm/Kg of seeds	13.48	28007	2.03	11.59	24.92					
Alternate practice-1: Seed treatment with Trichoderma @ 10 gm/Kg + Soil treatment with Trichoderma @ 2 Kg mixed with Neem cake @ 50 Kg and FYM @ 100 Kg	15.74	34635	2.16	30.30	26.32					

3. Specific Feedback from farmers: Seed treatment with Trichoderma and soil treatment with Trichoderma, Neem and FYM gives more yield compared to

recommended practice and farmers' practice.

4. Specific Feedback from Extension personnel and other stakeholders: Soil and seed treatment with Trichoderma, Neem cake and FYM increase plant

population by 14.43% as compared to farmers' practice.

5. Feedback to Research System based on results and feedback received: NIL

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (Bulb weight in gms)	* Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
	Assessm	Assessment	Assessment	T.O.1 (Farmer practice) Cultivation of Bellary / Nasik Red Onion variety	-	41.25	Qtl/ha	98.08	34820	1.73	-	
Onion Rainfed Low yield Onion varieties higher productiv	Onion Varieties for	or ³	T.O.2 Cultivation of Arka Kalyan variety	ICAR-IIHR, Bengaluru	50.87	Qtl/ha	110.50	49817	1.96	-		
			nigher productivity		T.O.3 Assessment of Bheema Super variety	ICAR- DOGR, Pune	53.27	Qtl/ha	117.38	54187	2.03	-

* Net returns are very low due to crash in Onion prices during the harvesting period. But later, prices went up to Rs. 10000 – 15000 per quintal

1. Title of Technology Assessed : Assessment of Red Onion varieties for higher productivity

2. Performance of the Technology on specific indicators :

Technology Assessed	blogy Assessed Performance indicators								
	Yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	% increase in yield					
Farmer's practice:				-					
Cultivation of Bellary / Nasik	41.25	34820	1.73						
Red Onion variety									
Recommended practice:									
Cultivation of Arka Kalyan	50.87	49817	1.96	23.32					
variety									
Alternate practice:									
Assessment of Bheema Super	53.27	54187	2.03	29.13					
variety									

3. Specific Feedback from farmers : Farmers accepted Bheema Super variety for its good bulb yield

4. Specific Feedback from Extension personnel and other stakeholders : -

5. Feedback to Research System based on results and feedback received : -

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (No. of thrips/plant)	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Onion I		Low yield	Accessment		T.O.1 (Farmer practice) Spray of Lambda Cylahothrin @ 2 ml/L	-	40.80	Qtl/ha	1.76 thrips/plant	37262	1.84	-
	Irrigated	income due to	of thrips management	5	T.O.2 Spray of Lecancillium lecanii @ 2 gm/L	UHS, Bagalkot	46.00	Qtl/ha	0.96 thrips/plant	45750	1.99	-
		of local variety	Onion crop		T.O.3 Spray of Lecancillium lecanii @ 2 gm/L + Soluble Boron @ 1 gm/L	ICAR- DOGR, Pune	58.20	Qtl/ha	0.56 thrips/plant	69027	2.46	-

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

1. Title of Technology Assessed : Assessment of thrips management practices in Onion crop

2. Performance of the Technology on specific indicators :

Technology Assessed	Pe	rformance indicato	ors	
	Bulb yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio	(% of purple blotch
Farmers' practice: Spray of Lambda Cyhalothrin @ 2 ml/L	40.80	37262	1.84	17.80
Recommended practice: Spray of Lecancillium lecanii @ 2 gm/L	46.00	45750	1.99	7.20
Alternate practice-1: Spray of Lecancillium lecanii @ 2 gm/L + Soluble Boron @ 1 gm/L	58.00	69027	2.46	4.00

2. Specific Feedback from farmers : Foliar spray of Lecancillium lecanii and Soluble Boron reduced the incidence of thrips and purple blotch disease and

in-turn increased the yield to 42% compared to Farmers' Practice (T.O.-1)

4. Specific Feedback from Extension personnel and other stakeholders : Lecancillium lecanii and Soluble Boron treated plot gave more yield as compared to either Lambda Cylahothrin or Lecancillium lecanii only.

5. Feedback to Research System based on results and feedback received : --

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield (Qt/Ha)	Unit of yield	Observations other than yield (Bulb weight)	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Onion I		Low yield, keeping quality	Assessment of white		T.O.1 (Farmer practice) Cultivation of Telagi White	-	59.53	Qtl/ha	100.60	54367	2.56	-
	Rainfed	income due to	Onion varieties for higher	3	T.O.2 Assessment of Bheema Shubra	ICAR- DOGR, Pune	73.67	Qtl/ha	110.8	73333	2.97	-
		of local variety	productivity		T.O.3 Assessment of Bheema Shweta	ICAR- DOGR, Pune	71.33	Qtl/ha	108.16	70500	2.93	-

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

1. Title of Technology Assessed : Assessment of white Onion varieties for higher productivity

2. Performance of the Technology on specific indicators :

Technology Assessed	Pe	formance indicate	ors
	Bulb yield (Qtl/ha)	Net Returns (Rs./ha)	B.C. Ratio
Farmers' practice: Cultivation of Telagi White	59.53	54367	2.56
Recommended practice: Assessment of Bheema Shubra	73.67	73333	2.97
Alternate practice-1: Assessment of Bheema Shweta	71.33	70500	2.93

- 1. **Specific Feedback from farmers** : Bheema Shubra variety has got uniform bulb size, bright white colour and good marketability. Therefore farmers accepted Bheema Shubra variety
- 2. Specific Feedback from Extension personnel and other stakeholders : --
- 3. Feedback to Research System based on results and feedback received : --

4.D1. Results of Technologies Refined : NIL

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

4.D.2. Details of Technologies refined:

- 1. Title of Technology Refined
- 2. Performance of the Technology on specific indicators
- 3. Specific Feedback from farmers

- 4. Specific Feedback from Extension personnel and other stakeholders
- 5. Feedback to Research System based on results/feedback received

PART V - FRONTLINE DEMONSTRATIONS (2019-20)

1. A. Summary of FLDs implemented

SI.	Cotogony	Farming	Saacan	Cron	Variety/	Hybrid	Thematic	Technology	Area (ha)	Fa (rmers No.)	Farmers	s (No.)
No.	Calegory	Situation	Season	Стор	breed	пурпа	area	Demonstrated	Proposed	Actual	SC/ ST	Others	Small/ Marginal	Others
	Oilseeds										0 0			
1	Pulses	Rainfed	Kharif, 2019	Greengram	DGGV-2		Integrated Crop Management	Integrated Crop Management in Greengram crop	8	8	0	0	9	11
2	Pulses	Rainfed	Rabi	Bengalgram	JAKI- 9218	-	ICM	Demonstration of JAKI-9218 variety	4	4	1	9	3	7
3	Cereals	Rainfed	Rabi	Rabi Sorghum	SPV- 2217	-	Varietal demonstration	Demonstration of SPV-2217	8	8	3	17	5	15
4	Maize+ Redgram	Rainfed	Khairf, 2019	Maize+ Redgram	TS-3R	Kaveri Champ	Intercropping system	Demonstration of	8	8	14	6	13	7

SI.	Cotomore	Farming	Saaaan	Gree	Variety/		Thematic	Technology	Area (ha)	Fa (rmers (No.)	Farmers	s (No.)
No.	Category	Situation	Season	Сгор	breed	Hybrid	area	Demonstrated	Proposed	Actual	SC/ ST	Others	Small/ Marginal	Others
						555		Maize+Redgram intercropping system						
		Rainfed	Kharif	Proso millet	DHPM- 2769	-	Varietal demonstration	Demonstration of millets	2	2	0	5	0	5
5	Millets			Foxtail millet	DHFt 109-3									
				Little millet	DHLM- 36-3									
		Irrigated	Rabi	Ridgegourd	Arka Prasanna	-	Varietal demonstration	ICM in vegetable crop	3	3	0	5	5	0
				Dolichos bean	Arka Amogh			cafeteria						
6	Vegetables			French bean	Arka Sharat	-								
				Okra	Arka Anamika									
				Coriander	Arka Isha									
	Flowers													
7	Chrysanthemum	Irrigated	Kharif, 2019	Chrysanthemum	Kurnool	-	IPDM	IPDM in Chrysanthemum	2	2	-	5	5	-
8	Gaillaridia	Irrigated	Kharif, 2019	Gaillaridia	Galate	-	IPDM	IPDM in Gaillaridia	2	2	-	5	5	-
	Ornamental													
9	Fruit	Rainfed	Kharif, 2019	Cashewnut crop	Vengurla -4	-	Dryland horticulture	Demonstration of Agri- horticulture system	2	2	0	5	0	5
	Spices and condiments													
	Commonoial													
	Commercial	Painfed	Kharif	Bt Cotton+	Kanaka	+	Intercropping	Intercropping of	Q	8		20	12	Q
10	Bt. Cotton	Nainieu	2019	Greengram	παιιακά		плетсторрінд	Bt. Cotton + Greengram (1:2)	O	O		20	12	0
11	Medicinal and aromatic	Rainfed	Late Kharif	Ashwagnadha	Poshita	-	Climate resilient crop	Demonstration of climate	4	4	-	10	6	4

SI. No. Cate	Cotogony	Farming	Saaaan	Gron	Variety/	Llubrid	Thematic	Technology	Area (ha)	Fa (rmers No.)	Farmers	s (No.)
No.	Category	Situation	Season	Сгор	breed	нургіа	area	Demonstrated	Proposed	Actual	SC/ ST	Others	Small/ Marginal	Others
								resilient crop						
12	Fodder	Irrigated	Kharif	Perennial fodder crops	 Hybrid Napier – DHN6 Guinea Grass Rhodes Grass Signal Grass Lucerne Azolla Culture 	-	Nutrition Management in dairy animals	Demonstration on Fodder crops and Azolla Production & feeding to milch animals for enhanced milk productivity	10	5	-	5	5	-
	Plantation													
	Eibro													
	FIDIE													
13	Dairy	Dryland/ Irrigated	Rabi	CB Cow	-	-	Nutrition Management in dairy animals	Demonstration of silage production & feeding to milch animals for enhanced milk productivity	10	10	_	10	10	-
14	Dairy	Dryland/ Landless	Rabi	CB Cow	-	-	Nutrition Management in dairy animals	Introduction of Hydroponic Fodder Production & feeding to milch animals for enhanced milk productivity	10	3	-	3	3	-
15	Dairy	Irrigated/ Dryland	Rabi	CB Cow	-	-	Nutrition Management in dairy animals	Feeding of Area Specific Mineral Mixture to enhance milk	10	10	2	8	10	-

SI.	Ostanama	Farming	0	0	Variety/	l h de sé al	Thematic	Technology	Area (ha)	Fa (rmers No.)	Farmer	s (No.)
No.	Category	Situation	Season	Сгор	breed	Hybrid	area	Demonstrated	Proposed	Actual	SC/ ST	Others	Small/ Marginal	Others
								yield & feeding						
								to milch animals						
								for enhanced						
								milk productivity						
	Poultry													
	D 11 2													
	Rabbitry													
	Diagony													
	Piggery													
	Shoon and goat													
	Sheep and yoar													
	Duckery													
	Duckery													
	Common carps													
	Mussels													
	Ornamental													
	fishes													
	Oyster													
	mushroom													
	Button													
	mushroom													
	vermicompost													
		Irrigotod	A 11	Mulborny	V/ 1		Organia	Cultivation of	2	2		2	1	2
16	Sericulture	Ingated	season	Muberry	V-1	-	Practices in Mulberry crop	Mulberry through organic	5	5	-	5	I	2
								manure						
	Aniculture													
	Implements													

SI.	Catagory	Farming	Socon	Cron	Variety/	Hybrid	Thematic	Technology	Area (ha)	Fa (rmers No.)	Farmers	s (No.)
No.	Calegory	Situation	3645011	Сгор	breed	пурпа	area	Demonstrated	Proposed	Actual	SC/ ST	Others	Small/ Marginal	Others
	Others (specify)													
17	Nutri farm	Irrigated & Rainfed	All seasons	Vegetables	-	-	Nutrition	Demonstration of Nutri farm	-	-	0	6	6	0
18	Post harvest	-	-	Greengram	-	-	Grain storage	Demonstration of super grain bags	on n		0	20	20	0

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

SI. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	S o	tat of so	us oil	Previous crop grown
										Ν	Ρ	K	
	Oilseeds												
1	Pulses	Rainfed	Kharif, 2019	Greengra m	DGGV-2	-	Integrated Crop Manageme nt	Integrated Crop Management in DGGV-2 variety	Kharif, 2019	L		Н	Rabi Sorghum & Bengalgram
2		Rainfed	Rabi 2019-20	Bengalgra m	JAKI-9218	-	ICM	Demonstration of JAKI-9218 variety	Rabi 2019- 20	L	N	1 H	Maize & fallow land
	Cereals												
4	Cereals	Rainfed	Rabi 2019-20	Rabi Sorghum	SPV-2217	-	ICM	Demonstration of SPV-2217 variety	Rabi 2019-20	L	L	Н	Greengram & fallow land
5	Maize+ Redgram	Rainfed	Kharif, 2019	Maize+ Redgram	TS-3R	Kaveri Champ 555	Rainfed	Demonstration of Maize+Redgram intercropping system	Kharif 2019- 20	L	L	M	Greengram
6	Millets	Rainfed	Kharif 2019	Proso millet	DHPM-2769	-	Varietal demonstra	Demonstration of millets	Kharif 2019	L	L	M	Maize & Bt. Cotton
				Foxtail millet	DHFt 109-3		tion						
				Little millet	DHLM-36-3								
7	Vegetables	Rainfed	Rabi 2019	Ridgegour d	Arka Prasanna	-	Varietal demonstra	ICM in vegetable crop cafeteria	Rabi 2019	L	L	М	Onion

SI. No.	Category	Farming Situation	Season and Year	Сгор	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	S	tatu f so	is oil	Previous crop grown
				Dolichos bean French bean Okra Coriander	Arka Amogh Arka Sharat Arka Anamika Arka Isha		tion				P	ĸ	
8	Flowers Chrysanthemu m	Irrigated	Kharif, 2019	Chrysanthe	Kurnool	-	IPDM	Demonstration on Chrysanthemum	Kharif, 2019	L	L	M	Vegetable
9	Gaillaridia Ornamental	Irrigated	Kharif, 2019	Gaillaridia	Galate	-	IPDM	Demonstration on Gaillaridia	Kharif, 2019	L	L	N	Vegetable crops
	Fruit Spices and condiments												
10	Commercial	Rainfed	Kharif, 2019	Bt.Cotton+ Greengra m	Kanaka	-	Intercroppi ng	Intercropping of Bt. Cotton + Greengram (1:2)	Kharif, 2019	L	Μ	L	Maize & Greengr am
11	Medicinal and aromatic	Rainfed	Late Kharif	Ashwagnad ha	Poshita	-	Climate resilient crop	Demonstration of climate resilient crop	Kharif, 2019	L	L	Μ	Rabi Sorghum
12	Fodder	Irrigated	Kharif & 2018-19	Perennial Fodder crops	 Hybrid Napier – DHN6 Guinea Grass Rhodes Grass Signal Grass Lucerne Azolla Culture 	-	Nutrition Manageme nt in dairy animals	Demonstration on Fodder Cafeteria and Azolla Production	Kharif & 2018-19	L	L	Μ	Maize
13	Plantation												
14	Fibre												

SI. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	S o	tat f s	us oil	;	Previous crop grown
										Ν	Ρ	۲	K	
15	Sericulture	Irrigated	All	Mulberry	V-1	-	Organic	Cultivation of Mulberry through	All season	L	N	1 L	L	-
		-	season	-			Practices	organic manure						
							in Mulberry	-						
							crop							

5.B. Results of FLDs

5.B.1. Crops

Сгор	Name of the	Variety	riety Hybrid	Farming	No. of	Area		Yield	(q/ha)		%	*Econ	omics of (Rs./	demonstr /ha)	ation	*E	conomics (Rs./	s of chec 'ha)	k	
Crop	technology demonstrat ed	Va	riety	Hybrid	situation	Demo.	(ha)	Demo			Check	Incre- ase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
								Н	L	Α										
Oilseeds																				-
Pulses	1014																			
Greengram	ICM in Greengram	DG	GV-2	-	Rainfed	20	8	7.88	5.90	6.95	5.97	17.28	25125	38206	13081	1.52	23642	32821	9179	1.39
Bengalgr am	Demonstrati on of JAKI- 9218 variety	JAK	I-9218	-	Rainfed	10	4	16.25	11.00	14.03	10.98	27.77	30969	57535	26567	1.87	28338	44988	16660	1.61
Cereals																				
Rabi Sorghum	Demonstrati on of SPV- 2217 variety	SPV	-2217	-	Rainfed	20	8	17.50	7.5	9.65	8.42	14.61	20591	37914	17323	1.84	19089	30939	11850	1.62
Maize+ Redgram	Maize+ Redgram	TS-3	R	Kaveri Champ 555	Rainfed	20	8	CEY: 40.12 (Maiz e: 21.87 + Redg ram: 7.30)	CEY: 31.49 (Maiz e:18. 37 + Redgr am: 5.25)	CEY : 35.68 (Maiz e:20. 15 + Redgr am: 6.17)	24.25	33.81	37021	64239	27218	1.73	29113	43719	14606	1.50
Millets								í í	, í	,										1
Foxtail Millet	Demonstrati on millet cafeteria	Pro so mill et	DHP M- 2769	-	Rainfed	5	2	15	8.5	11.5	-	-	20428	35650	15223	1.73	-	-	-	-

	Name of the		Varietv	ty Hybrid	Farming	No. of	Area	Yield (q/ha)				%	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
Сгор	technology demonstrat ed	Var	iety	Hybrid	situation	Demo.	(ha)		Demo		Check	Incre- ase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
								н	L	Α										
		Foxt ail mill et	DHFt 109- 3					12.5	6.87	9.25	-	-	19775	27750	7975	1.39	-	-	-	-
		Littl e mill et	DHL M- 36-3					15	10	12.87	-	-	23030	37337	14307	1.61	-	-	-	-
Vegetables																				
	Vegetable cafeteria	Ridg egou rd	Arka Pras anna					75	55	65	52.5	23.8	38780	136500	97720	3.52	36140	110250	74110	3.05
		Dolic hos bean	Arka Amo gh					85	62	74.50	58.50	27.35	44800	149000	104200	3.33	42650	117000	74350	2.74
		Fren ch bean	Arka Shar at		Irrigated	5	3	55	45	49.50	38	27.92	58150	99000	40850	1.70	55150	76000	20850	1.38
		Okra	Arka Ana mika					97	80	87.6	73.6	19.02	52220	105120	52900	2.01	49260	88320	39060	1.79
		Coria nder	Arka Isha					83	74.17	78.27	68.67	14.04	33150	93120	60770	2.84	36830	82400	45570	2.24
Flowers																				
Chrysant hemum	IPDM in Chrysanthe mum	Kur	nool	-	Irrigated	5	2	60	47.50	55.25	46.50	18.82	14955 0	359125	209575	2.40	13787 2	302250	16437 8	2.19
Gaillardia	IPDM in Gaillardia	Ga	late	-	Irrigated	5	2	80	67.50	74.50	64.25	15.88	13676 8	298000	161232	2.18	12872 2	257000	12827 8	2.00
Fruit	Dryland horticulture	Veng	urla-4	-	Rainfed	5	2	2 Survival rate is 100%									T			
Spices and condiment s																				
Commer cial																				
		1				1			1	1		1	1	1		1				1

Crop	Name of the			Farming	No. of	Area		Yield	(q/ha)	-	%	*Econ	omics of (Rs./	demonstr /ha)	ation	*Economics (Rs./h		s of chec /ha)	k
Crop	technology demonstrat ed	Variety	Hybrid	situation	Demo.	(ha)		Demo		Check	Incre- ase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							Н	L	Α										
Fibre crops like cotton	Demonstrati on of Bt.Cotton+ Greengram intercroppin g system	DGGV-2 (Greengra m)	Kanaka (Bt. Cotton)	Rainfed	20	8	CEY: 28.17 (Bt.Co tton:1 8.05 + Green gram: 8.10)	CEY: 17.25 Bt.Cott on:12. 00 + Green gram: 4.20	CEY: 22.04 (Bt.Co tton: 14.44 + Green gram: 6.08)	16.24	35.71	43965	114608	70643	2.60	40635	84469	43834	2.08
Madiainal																			
and aromatic																			
*Ashwagar Dha	Climate resilient crop	Poshita	-	Rainfed	10	4	3.25	2.50	2.85	New	crop	18725	42750	24025	2.28		New	Crop	
Foddor																			-
rouder																			
Plantation																			
Fibre																			
Others (pl.specify)																			
Sericulture	Sericulture	V-1 (Mulberry)	-	Irrigated	5	2	56.00	42.30	48.60	40.80	19.11	55693	170217	114523	3.05	54883	142683	87800	2.60

** BCR= GROSS RETURN/GROSS COST

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

* Ashwagandha crop demonstration does not have local check as this crop is a new introduction during rabi season. Hence, this is compared with Bengalgram crop as local check to show that Ashwagandha is more profitable compared to traditional rabi season crop i.e Bengalgram

1)Data on additional parameters other than yield : Demonstration of DGGV-2 variety in Greengram crop

Data on other parameters in relation to technology demonstrated												
Parameter with unit	Local check plot											
No. of pod borer / plant	0.29	0.87										

Incidence of Powdery Mildew disease	2.80 %	8.50 %

2)Data on additional parameters other than yield : Demonstration of JAKI-9218 variety in Bengalgram

Data on other parameters in relation to technology demonstrated												
Parameter with unit	Demonstration plot	Local check plot										
Wilt incidence (Percentage)	0.10	0.38										
No. of pod borers (Nos./Sq. mtr area)	0.16	0.42										

3) Data on additional parameters other than yield : Demonstration of SPV-2217 variety in Rabi Sorghum

Data on other parameters in relation to technology demonstrated												
Parameter with unit	Demonstration plot	Local check plot										
Lodging of plants (Percentage) at harvest	10.62	24.65										

4) Data on additional parameters other than yield : IPDM in White Onion

Data on other parameters in relation to technology demonstrated												
Parameter with unit	Demonstration plot	Local check plot										
Bulb weight (gms)	115.16	100.38										

5) Data on additional parameters other than yield: IPDM in Chrysanthemum

Data on other parameters in relation to technology demonstrated												
Parameter with unit	Demonstration plot	Local check plot										
Flower bud borer (No./ Plant)	0.44	1.20										
% of leaf spot incidence	8%	21%										

6) Data on additional parameters other than yield: IPDM in Gaillardia

Data on other parameters in relation to technology demonstrated												
Parameter with unit	Demonstration plot	Local check plot										
Flower bud borer (No./ Plant)	0.32	1.16										
% of leaf spot incidence	6.4%	18.2%										

5.B.2. Livestock and related enterprises

Type of	Name of the	Brood	No.	No. of	Y	ield (k	g/anim	al)	%	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)				
livestock	demonstrated	Breed	Demo	Units		Demo		Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					Н	L	Α											
Dairy	Demonstration on Fodder Cafeteria and Azolla Production	CB Cows	5	5	12.00	6.00	8.26	6.70	23.28	22690	62445	39755	2.75	34762	50652	15890	1.45	
	Demonstration on usage of silage bags for silage production for feeding to milking dairy animals for higher milk productivity	CB Cows	10	10	9.50	6.10	7.56	6.55	15.41	37577	57153	19576	1.52	34452	49518	15066	1.43	
	Demonstration on hydroponic fodder production and feeding for higher milk productivity	CB Cows	10	3	9.20	7.50	8.42	7.25	16.13	28620	63693	35073	2.22	33581	54810	21229	1.63	

Type of	Name of the		No.	No.	Y	Yield (kg/anima			Yield (kg/animal) %			%	*Economics of demonstration Rs./unit)				*Economics of check (Rs./unit)			
livestock	technology	Breed	of	of		_		Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**			
	demonstrated		Demo	Units		Demo		if any		Cost	Return	Return	BCR	Cost	Return	Return	BCR			
	Demonstration on feeding of area specific mineral mixture to enhance milk yield	CB Cows	10	10	11.00	3.50	7.15	6.10	17.21	33461	53983	20522	1.61	33101	46116	13015	1.39			
Poultry																				
Rabbitry																				
Pigerry																				
Sheep and goat																				
Duckery																				
Others																				
(pl.specify)																				

** 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.)

FLD on Fodder and Azolla production Salient features of Perennial Grasses as perceived by Farmers involved in Demonstrations

	Palatability of grass / fodder	Soil erosion controlling character	Regenerating capacity of grass / fodder	Suitability to grow on the farm bunds	Average Bio-mass / 100 sq.ft. at 1 st harvested stage	Average No. of tillers at 1 st harvesting stage	Average height of the grass at 1 st harvesting stage
Hybrid Napier DHN-6	75-85% (Very good)	Yes	Yes	Yes	21 Kg	40.0	4.6 ft.
Guinea grass	90-100% (Excellent)	Yes	Yes	Yes	15 Kg	49.0	1.4 ft.
Rhodes grass	90-100% (Excellent)	Yes	Yes	Yes	1.2 Kg	58.0	3.1 ft.
Signal grass	75-85% (Very good)	Yes	Yes	Yes	3.5 Kg	46.0	2.1 ft.
Lucerne	90-100% (Excellent)	Yes	Yes	Yes	3.8 Kg	5.4	1.6 ft.

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

Data on additional parameters : Demonstration on Fodder Cafeteria and Azolla culture

Data on other parameters in relation to technology demonstrated									
Parameter with unit	Demonstration	Check							
	Gradual improvement in the general condition of the animal health								
Feeding of Fodder and Azolla culture	Increase in intake of dry fodder	-							
	Cows are coming to heat within the period								
Salient features of Azolla production	Average production of Azolla in 12'x4' area was around 0.25 Kg/day	-							
Nutrition	Proper nutrition	No systematic nutrition							

Data on additional parameters : Demonstration of silage production

Data on other parameters in relation to technology demonstrated								
Parameter with unit	Demonstration	Check						
Supply of fodder	 Possible for regular supply of silaged green fodder to the animals. Ensuring the silaged green fodder especially during lean period 	-						
Weather	Silage can be made under all weather conditions	-						

Data on additional parameters : Introduction of Hydroponic Fodder Production

Data on other parameters in relation to technology demonstrated								
Parameter with unit	Demonstration	Check						

Data on other parameters in relation to technology demonstrated									
Water consumption	Low consumption of water. Ideal for drought areas	-							
Fertiliser requirement	No fertiliser required	-							
Nutrition	High nutrition and good hydration for animals	-							

Data on additional parameters : Demonstration on feeding of Area Specific Mineral Mixture

Data on other parameters in relation to technology demonstrated									
Parameter with unit	Demonstration	Check							
Supply of Area Specific Mineral Mixture	Improved reproductivity efficiency in female animals	-							
	Reduce intercalving period leading to more productive life of								
	animals	-							
	Improves milk production								

5.B.3. Fisheries : NIL

	Name of the			L Inite/		Vield (a/ba)			*Economics of demonstration				*Economics of check				
Type of	tochnology	Brood	No. of	Aroo				4/11 <i>a)</i>	%	Rs./unit) or (Rs./m2)				Rs./unit) or (Rs./m2)			
Breed	domonstrated	Dieeu	Demo	(m^2)	-) ~ m)	Check	Increase	Gross	Gross	Net	**	Gross	Gross	Net	**
	demonstrated			(111)	L	Jem	0	if any		Cost	Return	Return	BCR	Cost	Return	Return	BCR
					Н	L	Α										
Common																	
carps																	
Mussels																	
Ornamental																	
fishes																	
Others																	
(pl.specify)																	

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

H-High L-Low, A-Average

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

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

5.B.4. Other enterprises

	Name of the	Varietv/	No. of	Units/		Yield (Qtl/ha		Yield (Qtl/ha)		%	*Econ	*Economics of demonstration (Rs./unit) or (Rs./m2)			*Economics of check (Rs./unit) or (Rs./m2)			
Enterprise	demonstrated	species	Demo	Area {m ² }				Check if any	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					Н	L	Α											
Oyster																		
mushroom																		
Button																		
mushroom																		
Vermicompost																		
Sericulture																		
Apiculture																		
Others																		
(pl. specify)																		
Grain Storage	Super grain bags	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nutrition & Health	Demonstration of Nutri-farm	-	6	-	-	-	-	-	-	18000	45585	27585	1.50	-	-	-	-	

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average Data on additional parameters other than yield : Grain Storage

Data on other parameters in relation to technology demonstrated									
Parameter with unit	Demo	Local							
Insect load/Kg. of grains (Nos.)	0	14							
Weight of grain loss/Kg	0	73.9 gms							
Weight of grain loss/25 Kgs	0	1.82 Kgs							
Cost of grain loss (Rs.)-Greengram @	0	Rs 145/-							
Rs.80/Kg.	0	1.0.140/-							

Data on additional parameters other than yield : Health & Nutrition

Data on other parameters in relation to technology demonstrated									
Parameter with unit	Demo	Local							
Amount spent towards purchase of vegetables/year (Rs.225/month)	Rs. 2700/-	Rs.11400/- (Rs.925/month)							
Consumption of leafy vegetables in days/week	4-5 days/week	1-2 days/week							
Percentage adequacy of vegetables	61.43	-							
Availability of vegetables per day/ member	215 gms								

5.B.5. Farm implements and machinery

Name of the	Cost of the implement in	Name of the technology	No. of	Area covered under demo	Labour re in Ma	equirement andays	%	Savings in labour	*Econon	nics of dem	onstration (I	Rs./ha)		*Economic (Rs.	cs of check /ha)	
mplement	Rs.	demonstrated	Denio	in ha	Demo Check		save	(Rs./ha)	Cost incu	urred for gi	ading and cl	eaning	Cost inc	urred for g	rading and c	leaning

* 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	n to technology demonstrated
Parameter with unit	Demo	Local

SI.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	16	1213	
2	Farmers Training	54	1337	
3	Media coverage	32		
4	Training for extension functionaries	2	22	
5	Others (Please specify)-Farm Advisory Services	226	600	

PART VI – DEMONSTRATIONS ON CROP HYBRIDS (2019)

Demonstration details on crop hybrids

Type of	Name of the	Name of	No. of	Area		Yie	ld (d	q/ha)	%	*Econ	omics of (Rs./	demonstr /ha)	ation	*E	conomics (Rs./	s of chec /ha)	k
Breed	demonstrated	hybrid	Demo	(ha)	D)em	0	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					Н	L	Α										
Cereals																	
Bajra																	
Maize																	
Paddy																	
Sorghum																	
Wheat																	
Others																	
(pl.specify)																	
Total																	
Oilseeds																	
Castor																	
Mustard																	
Safflower																	
Sesame																	
Sunflower																	
Groundnut																	
Soybean																	
Others																	
(pl.specify)																	
Total																	
Pulses																	
Greengram																	
Blackgram																	
Bengalgram																	
Redgram																	

Type of	Name of the	Name of	No. of	Area		Yie	ld (c	q/ha)	%	*Econ	omics of (Rs./	demonstr /ha)	ation	*E	conomics /Rs./	s of chec ha)	k
Breed	demonstrated	hybrid	Demo	(ha)	C)emo	0	Check	Increase	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
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					1												
(Fodder)																	
Others																	
(pl.specify)																	
Total																	

PART VII. TRAINING (2019-20)

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

	No. of				No. c	of Partici	pants			
Area of training	Cours		General			SC/ST		C	Frand To	tal
Cron Droduction	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
weed Management										
Resource Conservation										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	19	302	43	345	213	1	214	515	44	559
Soil and Water Conservation	3	56	52	108	15	10	71	62	133	71
Integrated Nutrient Management	1	17	1	17	0	4	4	17	5	22
Production of organic inputs										
Others (pl.specify)										
Horticulture										
a) Vegetable Crops										
Production of low value and										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
ICM in Red Onion crop	1	28	2	30	0	0	0	28	2	30
Weed management and INM	1	25	0	25	4	1	5	29	1	30
in Onion										
Orchards										
Cultivation of Fruit	1	26	0	26	10	0	36	0	36	36
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										

	No. of				No. c	of Partici	pants			
Area of training	Cours		General			SC/ST		Ģ	Frand Tot	al
Plant propagation	62	Male	Female	Total	Male	Female	Total	Male	Female	Total
techniques										
Others (pl.specify)										
Perennial fruit crops	1	0	0	0	18	7	25	18	7	25
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl.specify)										
d) Plantation crops										
Production and Management technology	1	22	1	23	3	0	3	25	1	26
Processing and value addition										
Others (pl.specify)										
e) Tuber crops										
Production and Management technology										
Processing and value										
Others (pl.specify)										
f) Spices										
Production and Management technology										
Processing and value										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology in Ashwagandha crop	1	19	0	19	3	0	3	22	0	22
Post harvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility Management										
Soil fertility management										
Integrated water										
Integrated nutrient										
Production and use of										
Management of Problematic soils										

	No. of				No. c	of Partici	pants			
Area of training	Cours		General			SC/ST		Ģ	Frand Tot	al
Micro nutrient deficiency in	62	Male	Female	Total	Male	Female	Total	Male	Female	Total
crops										
Nutrient use efficiency										
Balanced use of fertilizers										
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	1	1	17	18	4	0	4	5	17	22
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management	4	48	0	48	31	31	62	79	31	110
Animal Disease										
Management										
Preduction of quality onimal										
products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by										
kitchen gardening and										
Design and development of low/minimum cost diet										
Designing and development										
for high nutrient efficiency diet										
Minimization of nutrient loss										
Processing and cooking										
Gender mainstreaming										
Storage loss minimization										
techniques	2	75	0	75	6	11	17	01	11	02
	3	75	0	10	0	11	17	01	11	92
women empowerment	1	8	2	10	0	0	0	8	2	10
Location specific drudgery production										
Rural Crafts										
Women and child care										
Others (pl.specify)										
EDP for women	6	10	93	103	0	28	28	10	121	131
Household nutritional										
security										

	No. of Cours General SC/ST Grand Total									
Area of training	Cours		General			SC/ST		G	Frand Tot	al
Agril Engineering	62	Male	Female	Total	Male	Female	Total	Male	Female	Total
Agrii. Engineering										
Farm machinery and its maintenance										
Installation and maintenance										
of micro irrigation systems										
practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology	2	0	47	47	0	13	13	0	60	60
Others (pl.specify)										
Plant Protection										
Integrated Pest Management	2	30	10	40	6	7	13	36	17	53
Integrated Disease Management										
Bio-control of pests and										
Production of bio control										
Others (pl.specify)										
Organic farming	8	165	56	221	26	10	36	191	66	257
Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling										
Composite fish culture										
Hatchery management and										
Breeding and culture of										
Portable plastic carp										
Pen culture of fish and										
prawn Shrimp forming										
Edible oveter forming										
Pearl culture										
Fish processing and value										
addition										
Production of Inputs at										
site										
Seed Production										

	No. of CoursNo. of ParticipantsGeneralSC/STGrand Total									
Area of training	Cours		General			SC/ST		G	irand Tot	al
Dianting material are duction	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
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)										
Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl. specify)										
Group Dynamics and farmers organization	2	75	0	75	15	0	15	90	0	90
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems	1	32	20	52	12	7	19	44	27	71
Others (Pl. specify)										
TOTAL	56	939	344	1282	366	130	620	1206	638	1714

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

	No. of				No. d	of Partici	ipants			
Area of training	Cours		General			SC/ST		G	rand Tota	al
Cron Draduction	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification	2	14	0	14	22	15	37	36	15	51
Integrated Farming										
Micro Irrigation/Irrigation										
Seed production										
Nursery management										
Integrated Crop Management	8	142	10	152	52	1	53	194	11	205
Soil and Water Conservation										
Integrated Nutrient Management	1	28	0	28	3	0	3	31	0	31
Production of organic inputs										
Others (pl.specify)										
Production and Management technology	4	63	0	63	4	0	4	67	0	67
a) Vegetable Crops										
Dreduction of low value and										
high volume crop										
Nurseason vegetables										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl.specify)										
ICM in vegetables	8	160	6	166	25	3	28	185	9	194
INM in vegetables	2	37	4	41	1	0	1	38	4	42
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Export potential truits										
Micro irrigation systems of orchards Plant propagation										
FF			1							

	No. of				No. d	of Partici	ipants			
Area of training	Cours		General	ſ		SC/ST	ſ	G	rand Tot	al
toobniquoo	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl.specify)										
Post harvest technology and										
c) Ornamental Plants										
Nursery Management										
Management of potted										
Export potential of										
ornamental plants										
Propagation techniques of										
Others (pl specify)										
INM in flower crops	3	49	11	60	3	0	3	52	11	63
Post harvest management in	1	18	2	20	4	0	4	22	2	24
flower crops										
d) Plantation crops										
Production and Management technology	3	53	2	55	17	2	19	70	4	74
Processing and value										
addition										
e) Tuber crops										
Production and Management technology										
Processing and value										
addition										
Others (pl.specify)										
f) Spices										
Production and										
Processing and value										
addition										
Others (pl.specify)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and										
management technology										
Post narvest technology and value addition										
Others (pl.specify)										
Soil Health and Fertility										
Soil fertility management	61	1604	0	1604	423	0	423	2027	0	2027
		1007		1004	720		720	2021	0	2021
management										
Integrated nutrient	2	0	0	0	46	0	46	46	0	46
Production and use of	1	25	0	25	Л	0	Л	30	0	20
organic inputs					-		4	59	0	39

Area of training Management of Problematic	No. of Cours	No. of Participants									
			General	SC/ST				Grand Total			
	63	Male	Female	Total	Male	Female	Total	Male	Female	Total	
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											
Poultry Management											
Piggery Management											
Rabbit Management											
Animal Nutrition Management	1	29	0	29	9	0	9	38	0	38	
Animal Disease Management											
Feed and Fodder technology											
Production of quality animal products											
Others (pl.specify)											
Home Science/Women											
empowerment			0.1	4.47				00	404	404	
Household food security by kitchen gardening and	6	23	94	117	0	(/	23	101	124	
Design and development of											
low/minimum cost diet											
Designing and development for high nutrient efficiency diet	1	0	15	15	0	7	7	0	22	22	
Minimization of nutrient loss											
in processing											
Conder mainstreaming											
through SHGs											
Storage loss minimization	2	4	31	35	0	0	0	4	31	35	
techniques Value addition	3	0	69	69	0	18	18	0	87	87	
Women empowerment	2	0	29	29	0	11	11	0	40	40	
Location specific drudgery	3	8	32	40	0	5	5	8	37	45	
production											
Rural Crafts											
Women and child care	2	0	20	20	0	9	9	0	29	29	
Others (pl.specify)											
Income Generating Activities	2	0	30	30	0	2	2	0	32	32	
Entrepreneurship	3	0	62	62	0	13	13	0	75	75	
Agril. Engineering											
	1					1					

Area of training	No. of Cours es	No. of Participants									
		General			SC/ST			Grand Total			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Farm machinery and its											
maintenance											
of micro irrigation systems											
Use of Plastics in farming											
practices											
Production of small tools											
and implements											
farm machinery and											
implements											
Small scale processing and											
Value addition	1	0	10	10	6	0	6	6	12	10	
Post Harvest Technology	1	0	12	12	0	0	0	0	12	10	
Others (pl.specify)											
Plant Protection											
Integrated Pest Management	18	409	2	411	105	11	116	514	13	527	
Integrated Disease Management	2	27	26	53	7	4	11	34	30	64	
Bio-control of pests and											
diseases	4	4.4	0	4.4	0	2		10	2	10	
agents and bio pesticides	I	14	0	14	2	3	5	10	3	19	
Others (pl.specify)											
Integrated pest and disease	6	116	25	1/1	16	5	21	132	30	162	
management	0	110	20	141	10	5	21	152	50	102	
Organic farming	8	189	33	222	30	4	34	219	37	256	
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 fisnes											
hatcherv											
Pen culture of fish and											
prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
Others (pl.specify)											

Area of training	No. of Cours es	No. of Participants								
		General		SC/ST		Grand Tota		al		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	1	5	16	21	0	0	0	5	16	21
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)										
Capacity Building 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 (PI. specify)										
TOTAL	158	3027	531	3558	779	120	899	3806	651	4457
7.C. Training for Rural Youths including sponsored training programmes (on campus)

	No. No. of Participants									
Area of training	of		General			SC/ST		Gi	and To	tal
	rses	Male	Female	Total	Male	Fem ale	Total	Male	Fem ale	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs	1	18	0	18	0	2	2	18	2	20
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										
Dairying	4	76	4	80	11	11	22	87	15	102
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)										
Women empowerment	1	0	25	25	2	3	5	2	28	30
TOTAL	6	94	29	123	13	16	29	107	45	152

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

	No. No. of Participants									
Area of training	of		Genera	l		SC/ST		G	rand To	otal
J	Cour ses	Male	Fem ale	Total	Male	Fem ale	Total	Male	Fem ale	Total
Nursery Management of										
Horticulture crops										
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	1	0	24	24	0	2	2	0	26	26
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)										
Entrepreneurship Development Programme	1	0	24	24	0	2	2	0	26	26
IUTAL	•	v	24	24	U	2	2	v	20	20

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

	No.				No. of	Partic	ipants			
Area of training	ning of General SC/ST Grand Total							tal		
	Cour ses	Male	Fem ale	Total	Male	Fem ale	Total	Male	Fem ale	Total
Productivity enhancement in										
field crops	2	42	5	47	0	0	0	42	5	47
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Household nutritional security	3	14	40	54	3	4	7	17	44	61
Total	5	56	45	101	3	4	7	59	49	108

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

	No. of Participants									
Area of training No. of General					SC/ST		G	irand To	otal	
	es	Male	Fem ale	Total	Male	Fem ale	Tot al	Ma le	Fem ale	Total
Productivity enhancement in										
field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care	6	5	124	129	0	30	30	5	154	204
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder										
production										
Household food security										
Any other (pl.specify)										
Soil and water testing										
Total	6	5	124	129	0	30	30	5	154	204

7.G. Sponsored training programmes conducted

		No.				No. of	Partic	ipants			
S.	Area of training	of Cour General SC/ST Grand Total Fem Fem Fem Fem Fem Fem						tal			
No.	Area or training	Cour	Malo	Fem	Total	Malo	Fem	Total	Mala	Fem	Total
		363	wate	ale	TOLAI	Wale	ale	Total	wate	ale	TOLAI
1	Crop production and										
	management										
1.a.	Increasing production and	_		~-				10			100
4.1	productivity of crops	5	78	37	115	12	1	13	90	38	128
1.D.	Commercial production of										
2	Production and value										
2	addition										
2 a	Fruit Plants	1	26	0	26	10	0	10	36	0	36
2.b.	Ornamental plants	•	20		20	10	Ŭ	10	00		00
2.c.	Spices crops										
3.	Soil health and fertility										
	management	61	1605	0	1605	426	0	426	2031	0	2031
4	Production of Inputs at										
	site	1	14	0	14	5	0	5	19	0	19
5	Methods of protective										
6	Others (pl.specify)	-	50	50	400	45	10	05	74	00	400
7	Soil and water conservation	5	56	52	108	15	10	25	/1	62	133
1	Post narvest technology										
7.2	Processing and value										
1.a.	addition										
7 h	Others (pl specify)										
7.0.	Storage loss minimization										
	techniques										
8	Farm machinery										
8.a.	Farm machinery, tools and										
	implements										
8.b.	Others (pl.specify)										
9.	Livestock and fisheries										
10	Livestock production and										
10 -											
10.a.	Animal Nutrition										
10 h											
10.5.	Management										
10.c	Fisheries Nutrition										
10.d	Fisheries Management										
10.e.	Others (pl.specify)										
	Dairy management	1	1	17	18	4	0	4	5	17	22
11.	Home Science										
11.a.	Household nutritional										
L	security	3	23	58	81	8	3	11	31	61	92
11.b.	Economic empowerment of		^	4.00	400	6	40	40	6	400	400
44 -	women	4	0	102	102	0	18	18	0	120	120
11.C.	Drudgery reduction of										
11 d	Others (pl specify)					+					
12	Agricultural Extension										
12 2	Capacity Building and Group										
12.a.	Dvnamics										
12.b.	Others (pl.specify)										
	Integrated farming system	1	32	20	52	12	7	19	44	27	71
	Organic farming	5	100	56	156	13	10	23	113	66	179
	Integrated Pest	2	40	8	48	2	1	3	42	9	51

-		No.				No. of	Partici	pants			
S.	S. Area of training No.			General			SC/ST		Grand Total		
No.			Male	ale Fem Total Male Fem ale Total	Male	Fem ale	Total				
	Management										
	Total	84	1961	350	2311	502	50	552	2482	400	2863

Details of sponsoring agencies involved

- ASF, Hulkoti KSDA
- CADA
- i) ii) iv) v) vi) vii) Karnataka State Department of Agriculture UAS, Dharwad GITSERD, Hulkoti

- ATMA

		No. of				No. o	f Parti	cipan	ts		
SI.	Area of training	Cour	(Genera			SC/ST		Gi	and To	otal
No.		ses	Male	Fem ale	Tot al	Male	Fem ale	Tot al	Male	Fem ale	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										
1.1.	Others (pl.specify)										
2	value addition										
2.a.	Value addition										
2.b.	Others (pl.specify)										
3.	Livestock and fisheries										
3.a.	Dairy farming	1	19	1	20	0	0	0	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)										
4.	Income generation activities	1	10	1	10	1	0	1	10	1	20
4.a.	Production of bio agonta, bio	I	10	I	19	I	0	I	19	1	20
4.0.	posticides										
	bio-fertilizers etc										
4 c	Repair and maintenance of farm										
1.0.	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.	1	0	24	24	0	2	2	0	26	26
4.j.	Agril. para-workers, para-vet										
	training										
4.k.	Others (pl.specify)			0 -			_				
-	Women empowerment	1	0	25	25	0	5	5	0	30	30
5	Agricultural Extension										
5.a.	Capacity building and group										
5 b	Others (pl specific)										
5.D.		-	27	F 4	00	-		•		50	00
	Grand Total	4	37	51	88	1	/	8	38	58	96

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

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

								No. of	f Partio	cipant	s			No of Partic
_			Date	Total	Ċ	Seneral			SC/ST		G	rand T	otal	ipants
S. No.	Name of Job Role	Date of Start	of Assessme nt	Expenditur e (Rs.)	Male	Fem ale	To tal	Ma Ie	Fem ale	To tal	Ma Ie	Fem ale	Total	passe d asses sment
1	Vermicompost producer	01-01- 2020	26-02- 2020	179898	18	0	18	2	0	2	20	0	20	17
2.	Dairy farmer/ entrepreneur	01-01- 2020	27-02- 2020	210743	16	0	16	4	0	4	20	0	20	19

PART VIII - EXTENSION ACTIVITIES (2019-20)

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

Nature of		No. c	of Particip	ants	No.	of Particin	ants	No	of extens	ion
Extension	No. of		(General)			SC / ST			personne	l
Programme	Programmes	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	17	658	84	742	184	20	204	37	3	40
Kisan Mela	3	1311	1366	2677	58	35	93	70	11	81
Kisan Ghosthi	1	0	0	0	0	0	0	7	32	39
Exhibition	3	8225	7977	16202	2000	1081	3081	42	30	72
Film Show	3	3	51	54	12	5	17	0	0	0
Method										
Demonstrations	22	346	246	592	77	50	127	22	1	23
Farmers	3									
Seminar	5	175	0	175	44	0	44	61	8	69
Workshop	3	586	0	586	0	0	0	55	4	59
Group meetings	18	401	22	423	122	0	122	12	5	17
Lectures										
delivered as	9									
resource	C C	124	420		45	50	0.5	12	7	
persons		424	436	860	45	50	95	13	/	20
Newspaper	45									
coverage Dedia talka	2									
	3									
I V talks	0									
Fupular articles	5									
Literature	51									
Advisory										
Services	392	369	12	381	4	0	4	З	4	7
Scientific visit to		000	12	001		0		0	- т	1
farmers field	188	1102	158	1260	70	72	142	24	15	39
Farmers visit to										
KVK	353	913	361	1274	19	13	32	11	15	26
Diagnostic visits	8	28	1	29	0	0	0	3	2	5
Exposure visits	5	110	37	147	0	0	0	4	1	5
Ex-trainees	0									
Sammelan	0	0	0	0	0	0	0	0	0	0
Soil health	2									
Camp	5	195	0	195	72	0	72	0	0	0
Animal Health	1									
Camp	1	53	5	58	0	0	0	2	0	2
Agri mobile	0	-			-					
clinic	-	0	0	0	0	0	0	0	0	0
Soil test	5	100	0	100	07	0	07	0	0	0
campaigns		193	0	193	27	0	27	0	0	0
Farm Science	0									
Club Conveniers	0	0	0	0	0	0	0	0	0	0
Self Help Group		0	0	0	0	0	0	0	0	0
Conveners	1									
meetings	·	0	6	6	0	0	0	0	2	2
Mahila Mandals		~	- Ŭ		~	Ť	Ť	Ť	-	_
Conveners										
meetings										
0-	0									
	U									
		0	0	0	0	0	0	0	0	0

Nature of	No. of	No. c	of Particip	ants	No.	of Particip	ants	No	of extens	ion
Programme	Programmes	Male	(General)	Total	Male	SC/SI Female	Total	Male	Fomalo	Total
Celebration of		Male	Temale	Total	Wale	Temale	Totai	Wale	Temale	Total
important days										
(specify)				0			0			0
International	1									
Yoga day	I	36	26	62	0	0	0	10	4	14
Parthenium										
Awareness	1									
week		35	0	35	12	0	12	0	0	0
World No	1									
tobacco day	1	0	20	20	0	0	0	20	10	30
Vigilance										
awareness	1									
week		32	24	56	0	0	0	10	4	14
World food day	1	35	100	135	10	27	37	19	1	20
World soil day	1	132	25	157	20	10	30	10	5	15
Kisan Diwas	1	150	100	250	30	6	36	5	5	10
Any Other										
(Specify)				0			0			0
Bi-monthly	3									
meetings	5	0	0	0	0	0	0	92	14	106
Swachcha										
Bharath	26									
Abhiyan		1008	350	1358	70	35	105	42	29	71
Total	1178	16520	11407	27927	2876	1404	4280	574	212	786

8.2 Special Extension Programmes

Nature of Extension	Date(s)	No	o. of farme (General)	ers	No	o. of farme SC / ST	ers	No	.of extens personne	ion I
Programme	conducted	Male	Female	Total	Male	Female	Total	Male	Female	Total
Jal Shakti Abhiyan	03-09-2019 & 02-10-2019	1229	1323	2677	82	43	125	67	10	77
Fertilizer Use	22-10-2019	175	18	211	11	7	18	5	4	9
Awareness										
Campaign										
National Animal	11-09-2019	173	72	270	15	10	25	25	10	35
Disease Control										
Programme										
Tree Plantation	17-09-2019	112	64	190	8	6	14	40	24	64
Campaign										
Any other, Pl. specify										
	Total	1689	1477	3348	116	66	182	137	48	185

PART IX - PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Rabi Sorghum	SPV-2217		10.93	46450	201
	Foxtail millet	DHFT-109-3		0.45	3300	25
	Browntop Millet	Local		0.05	700	5
	Little Millet	DHLM-36-3		0.35	2150	15
	Proso Millet	DHPM-2769		0.05	350	5
Oilseeds	Groundnut	DH-256		15.00	105000	25
	Safflower	ISF-764		10.62	106200	41
Pulses	Bengalgram	JAKI-9218		22	220000	110
	Bengalgram	BGD.111-01		0.60	6000	3
	Bengalgram	DBGV-204		0.60	6000	3
	Greengram	DGGV-2		8.10	70200	112
	Redgram	TS-3R		6.96	69600	155
Commercial crops						
Vegetables	Onion	Arka Kalyan		4.13	413000	123
	Onion	Bheema Super		3.44	344000	239
Flower crops						
Spices						
Fodder crop seeds	Lucerne			12.63 Kgs	4780	30
	Perennial Sorghum			2.9 Kgs	1854	7
	Stylo haemata			9.9 Kgs	5432	17
Fiber crops						
Forest Species						
Others (specify)	Ashwagandha			0.40	10000	10
Total				83.93	1415016	1126

9.A. Production of seeds by the KVKs

9.B. Production of planting materials 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		206	5430	29
Fruits	Mango	Alphonso		200	20500	29
	Tamarind	PKM-1		150	15000	15
	Jamun	Vengurla-1		150	15000	15
	Guava	Lucknow-49		56	2300	14
	Lime	Kagzi Lime		56	2200	14
	Papaya	Red Lady		56	960	14
Ornamental plants						
Medicinal and Aromatic						
Plantation	Cashewnut	Vengurla-4		1160	69600	24
Spices	Curryleaf	Suhashini		206	5430	29
Tuber						
Fodder crop saplings	Guiniea grass			10827	8120	20
	Congo signal			26368	18462	21
	Hybrid napier grass			5940	6600	11
	Rhodes grass			20104	14075	21

Forest Species	Melia dubia		741	18525	15
Others(specify)					
Total			66220	202202	271

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers	Vermiwash	105 lit	3090	15
	Vermicompost	130 Qtl	39000	52
	Rhizobium	84 Kgs	8400	168
	PSB	116 Kgs	11600	232
	Azospirillum	45 Kgs	4500	90
Bio-pesticide				
Bio-fungicide	Trichoderma	37 Kgs	7400	148
Bio Agents	Earthworms	190 Kgs	61850	104
Others (specify)	Azolla	33 Kgs	3300	33
Total			139140	842

9.D. Production of livestock

Particulars of Live stoc	kName of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (PI. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)	Giriraj Poultry Birds	150	19950	10
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Fingerlings				
Others (Pl. specify)				
Tota	l	150	19950	10

PART X – PUBLICATION, SUCCESS STORY, INNOVATIVE MTHODOLOGY, ITK, TECHNOLOGY WEEK

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

(A) KVK Newsletter:

Date of start: <u>English News Letters – January, 2003 &</u> Krishi Darpana in Kannada language – October 2015

Periodicity: <u>Monthly</u> Copies printed in each issue: <u>250</u>

(B) Literature developed/published

Item	Number
Research papers- International	0
Research papers- National	0
Technical reports	0
Technical bulletins	4
Popular articles - English	0
Popular articles – Local	5
language	
Extension literature	9
Others (PI. specify)	
TOTAL	18

10.B. Details of Electronic Media Produced

Sl.	Type of media	Title	Details
No.			
1	CD / DVD	Vermicompost	Preparation of vermicompost and its
			uses
2	Mobile Apps	-	
3	Social media groups with	WhatsApp –	
	KVK as Admin	• KVK, HULKOTI, GADAG	
		group	
		 Cashew Growers group 	
		 Mango Growers group 	
		• GADAG FPO's	
4	Facebook account name	Khp Kvk Hulkoti	
5	Instagram account name	KVKGadag	

10.C. Success Stories / Case studies

I. DOUBLING OF INCOME – A SUCCESS STORY OF BENGALGRAM FARMER

Shri Goudappagouda Fakiragouda Kagadal of Khanapur village is one of the young farmer participated in



FLD-Bengalgram programme of KVK during 2017-18. He was very enthusiastic to adopt improved technologies to address productivity constraints in Bengalgram. He used to cultivate Bengalgram variety of JG-11. Incidence of wilt was the major problem that affected the yield to the extent of 40-50 percent. Apart from this, there was also knowledge gap in management of pod borer and nutrient application. Demonstration was laid out in his farm under the supervision of KVK Scientists. Details of technologies demonstrated were use of high yielding and wilt tolerant

variety (JAKI-9218), seed treatment with trichoderma and bio-fertilizers, foliar spray of 19:19:19 water soluble fertilizer and appropriate technologies for management of pod borer. Local check of JG-11 was also laid out adjacent to the demonstrated plot. Shri Goudappagouda adopted all the suggested technologies related to sowing method, seed rate, nipping, nutrition, intercultivation and management of pod borer. KVK Scientists periodically visited his plot and given him timely suggestions. As a result of this, bumper crop was raised and all the farmers in the village visited the plot and learnt about the technologies adopted. The performance of demonstrated plot against local check is given below

Performance of technologies in demonstration						
Yield (Q/ha)			Net returns (Rs./ha)			Yield gap (q/ha) over check
Demo	Check	% increase	Demo	Check	% increase	
15.0	11.5	30.43	22320	13300	67.81	3.50

The farmer could get 30.43 per cent increased yield and 67.81 per cent increased net income. His net income was almost doubled. Potential yield of the variety of was achieved. This yield was 3 times the yield of State and District average and two times the yield of National Average.

During the subsequent years of 2018-19 and 2019-20, the technology was spread to entire Khanapur village and surrounding villages of Gangapur and Radder Naganur. The farmer says that, JAKI-9218 variety is wilt tolerant and high yielding and timely management of pod borer has enhanced the productivity. Further, he says that he get Rs.15,000/- additional returns per hectare by spending Rs.3000/- as additional cost per hectare.



II. SUCCESSFUL DAIRY ENTERPRISE OF MBA GRADUATE

Mr. Veeranna Naikar, a Graduate in Master of Business Administration belonging to Machenahalli villages of Shirahatti taluk was settled at Bengaluru doing a job at private firm. He was not happy with the job and always thought of doing his own business. During 2017-18, he visited KVK and explained the possibility of starting dairy farm at his village. He had an ancestral property of 6.00 acres. KVK provided him the consultancy for starting dairy unit and project report. He took a loan of Rs.12.00 lakhs and invested Rs.2.00 lakhs from his pocket. Constructed housing shelter for 10 animals and he purchased 6 HF and 1 Jersey Cow. In the mean time, he attended one week duration training programme at KVK on Scientific Dairy Management. He learnt various aspects of dairy management. He purchased grass slips of hybrid napier, guinea grass, Rhodes grass, stylo heamata and planted in his farm. He also started cultivation of multi-cut sorghum. Apart from this, he established Azolla unit and started silage making. He faced various issues related to feed management and health & hygiene aspects of animals and cattle shed. He was in continuous contact with KVK Animal Scientist and got his issues solved. From 2018 September onwards, Mr. Naikar started getting milk yield of 70 liters/day from his dairy unit. He says that, he incurred expenditure of Rs.20,000/- per month for management of dairy unit. He gets net returns of Rs.40,000/- per month and he remitted Rs.10,000/- as monthly instalment of loan. He says that, net income of Rs.30,000 per month is very good income and is huge savings for him. He says that he could not save any thing when he was in Bengaluru.

Within 2 years of establishment of dairy unit, he could convince the youths in his village that dairy is a profitable enterprise. The principle of management which he has learnt in his degree programme coupled with constant technical guidance of KVK helped him to achieve the success, he says. When asked about further plan, he says that he is planning to develop his own milk brand of his dairy farm and sell it across district.

III. ENHANCING THE LIVELIHOOD THROUGH UPGRADATION OF LOCAL GOAT



The farmers who are practising goat farming in dryland area are facing the problem of low income with local goat due to less sustainability in view of prevailing high temperatures, less body weight gain, low milk yield and long



gestation period. So to overcome these problems, Jamunapari buck was introduced through NICRA Project in Mahalingapur village during 2016-17. The purpose of demonstration was to

show enhanced body weight, increased milk yield and capacity to attain early maturity even under increased temperature conditions as this breed of Jamunapari buck is tolerant to high temperatures. Through the project, three Jamunapari bucks were provided to farmers for upgradation of local goats in the month of January, 2017.

Shri Takrappa Kempanna Lamani is one of a goat farmer and managing the small enterprise since many years. It is the only source of income for the family of four members as he does not possess any land. He was rearing a flock of 50 non-descriptive goats. Due to lack of knowledge in management practices of goat, he faced lot of mortality of goats. During 2016, his goat population reduced to three. This has put him in distress as he did not have alternative livelihood option. During

this period, he came in contact with KVK as the village was adopted under National Innovation and Climate Resilient Agriculture (NICRA) Project. KVK trained Shri Takrappa on Scientific Management of goat with major focus in balance nutrition, deworming, vaccination and disease management. During 2017, he was given Jamunapari Buck by KVK and during the same time he purchased 7 She goats from the local market. Now, he has a 10 +1 goat unit. During the same year,



he got 7 male kids and 5 female kids. Now, the goat population is increased to 16. The unit produced 12 kids including 6 male and 6 female. He sold 6 male kids for the price of Rs.5500/- per kid to other goat farmers in the region and earned an income of Rs.33,000/-. In the subsequent years, his goat unit size increased to 32 (31+1).

During beginning of 2019, Mr.Takrappa sold 10 bucks and earned an income of Rs.60,000/-. He sold it to neighbouring places of Shiggoan, Bankapur, Majjur, Hirevaddatti and Kalasapur. From the income earned, he purchased 20 female kids. During the same year, he sold 13 does (She goat) and earned an income of Rs.1.0 lakh.



Due to KVK's continous technical support, he is able to achieve this income. He says that, upgraded (Jamunapari) one year old goat

has body weight of 50 Kgs as against 30 Kgs in local breed. Further, he says that he is providing upgradation services to other goat units free of cost. Due to this intervention, the upgraded goat population is increasing in Mahalingapur village as well as in the neighbouring villages and neighbouring taluks. Now Mr.Takrappa has a unit size of 29 upgraded kids and 1 Jamunapari Buck. He wants to increase the unit size to 100 by 2020. He owes the credit to NICRA Project for imporving his livelihood status.

10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

I) FPO OFFICE IN KVK PREMISES STRENGTHENS TOT PROCESS :

KVK has given a space for Office as well as godown for Hulkoti Horticulture Farmers' Producers Company Ltd. to run its activities. During the agricultural season, lot of Member farmers visit the FPO for purchase of agri-inputs and advisories. These farmers interact with KVK Scientists regarding the agricultural problems. Need based solutions are being given to farmers for pest and disease problems. Prescription based solution is given to the farmers and they purchase the inputs from FPO. This mechanism has strengthened the TOT process of KVK for FPO farmers.

II) FARMER-SCIENTIST INTERACTION :

During Kharif and Rabi seasons, KVK organises Farmer-Scientist interaction programme in collaboration with ATMA, Gadag. Progressive and innovative farmers are invited for the interaction programme. Issues related to availability of quality seeds and other inputs and improved technologies are being discussed in the meeting and solutions are provided to farmers by KVK Scientists and Officers of Department of Agriculture.

III) CONVERGENCE OF HORTICULTURE EXTENSION PROGRAMME :

Crop diversification through promotion of Mango and Cashew is one of the thrust area of KVK. Through awareness programme, trainings & FLD programmes KVK promoted mango and cashew in Gadag district. To scale up the technology, KVK adopted convergence strategies involving other agencies/Departments having similar objective of promotion of fruit crop cultivation. KVK involved State Department of Horticulture, Watershed Development Department, Zilla Panchayat through MGNREG, Directorate of Cashew and Coco Development, Cochin, Reliance Foundation and ATMA. KVK played the role of facilitation, expertise and nodal partner for promotion of Mango and Cashew.

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK	Scientific Rationale
1	Livestock	 Groundnut oil + Sodium Bicarbonate A paste of Garlic, Ginger & Jaggery 	For treatment of Bloat	Groundnut oil helps in reducing gas produced inside rumen. Sodium bicarbonate neutralized acid produced in rumen. Garlic and Ginger act as ruminoforics.
2	Livestock	Feeding of Alovera Juice	For the treatment of Gastrointestinal parasite in calves, kid & lambs.	Aloevera juice lubricates the intestine to expel endoparasites.
3	Livestock	Animal washing in Canal/river water	For the treatment of foot & mouth disease	It facilitates drying of wound and protection from flies
4	Livestock	Turmeric powder mixed in ghee, heated and applied	For the healing of wound	Turmeric has got anti microbial properties.
5	Livestock	Washing of hoves of animals with lime water	For the treatment of foot and mouth disease	Lime has antiseptic property. It kills germs and healing is fast.
6	Livestock	Zeera & Garlic are boiled in water and is fed	For the treatment of fever	Act as anti cold & fever.
7	Livestock	 Tobacco shoot with Kerosine oil paste is made and applied Leaves of neem or neem oil 	For the treatment of ecto parasite infestation	Tobacco contain nicotine that kills ecto parasite. Neem has got ecto parasiticadal properties.
8	Livestock	Paste of alovera liquid is applied on udder & teats	For the treatment of mastitis for reducing swelling	Aloevera act as astringent and anti oxidant that reduces swelling.

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

10 F. Technology Week celebration during 2019-20:

Period of observing Technology Week: From 22-01-2020 to 28-01-2020

Total number of farmers visited : 11400

Total number of agencies involved : 2

Number of demonstrations visited by the farmers within KVK campus : 6

Other Details

Types of Activities	No. of	Number of	Related crop/livestock
	Activities	Farmers	technology
Gosthies	1	191	Cashewnut crop
Lectures organized	7	300	Lectures organized on crop technologies
Exhibition	1	8113	Crop, livestock and have science technologies
Film show	2	240	Mango & Cashew
Fair	1	355	Rabi & Summer crop campaign
Farm Visit	3	201	Rabi crops, Livestock, Agricultural Machineries
Diagnostic Practicals	-	-	-
Supply of Literature (No.)	8	2000	Crop technology
Supply of Seed (q)	-	-	-
Supply of Planting materials (No.)	-	-	-
Bio Product supply (Kg)	-	-	-
Bio Fertilizers (q)	-	-	-
Supply of fingerlings	-	-	-
Supply of Livestock specimen			
(No.)	-	-	-
Total number of farmers visited the technology week	23	9400	

10 E. Recognition and Awards: Nil

PART XI – SOIL AND WATER TEST

11.1 Activities of Soil and Water Testing Laboratory

A. Status of establishment of Lab : 2005-06

1. Year of establishment : 01.07.2005

2. List of equipments purchased with amount :

SI. No	Name of the Equipment	Qty.	Cost
	A) Non-recurring contingency		
1	Spectrophotmeter	1	0.60
2	Flame photometer	1	0.50
3	pH meter	1	0.10
4	Conductivity bridge	1	0.10
5	Physical balance	1	0.10
6	Chemical balance	1	1.00
7	Water distillation still	1	1.00
8	Orbital shaker	2	0.60
9	Shaker	2	0.50
10	Refrigerator	1	0.20
11	Oven with optional attachments	1	0.15
12	Hot plate with all models	1	0.25
13	Grinder with motor	1	0.30
14	Laboratory set up (all basic facilities)		3.20
15	PUSHA STFR meter Kit	1	0.75
16	MRIDAPARIKSHA	1	0.903
	Total (A)		10.253
	A) Recurring contingency		
1	Chemical & glasswares		3.50
2	Miscellaneous items		0.20
3	Soil and plant sample processing and storage facility		0.50
	Total (B)		4.20
	Grand Total (A+B))		14.453

B. Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	8500	17594	323
Water Samples	4710	4496	"
Plant samples	103	103	"
Manure samples	-	-	-
Others (specify)	-	-	-
Total	13313	22193	323

C. Details of samples analyzed during the 2019-20 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages
Soil Samples	1044	3578	251
Water Samples	565	551	"
Plant samples	27	27	"
Manure samples	-	-	-
Others (specify)	-	-	-
Total	1636	4156	251

11.2 Mobile Soil Testing Kit :

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1. PUSA SFTR meter kit	22-02-2016	Working
2. MRIDA PARIKSHAK	31-03-2017	Working

B. Details of soil samples analyzed during 2019-20 and since establishment with Mobile Soil Testing Kit:

	Progress during 2019	Cumulative progress
Samples analyzed (No.)	370	695
Farmers benefited (No.)	1094	2085
Villages covered (No.)	14	20

11.3 Details of soil health cards issued based on SWTL & Mobile Soil Testing Kit during 2019-20:

Particulars	Date (s)	Villages (No.)	Farmers (No.)	Samples analyzed (No.)	Soil health cards issued (No.)
SWTL	1 st April, 2019 to 31 st March, 2020	251	2484	1044	2573
Mobile Soil Testing Kit	1 st April, 2019 to 31 st March, 2020	14	1094	370	1126

11.4 World Soil Health Day celebration

SI. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No.)	Media coverage (No.)
1	184	326	-	 Dr.Umesh Arahunasi Principal,K.H.Patil PU College, Hulkoti Dr.Veeresh Hunagund Deputy Director-1,KSDA, Gadag Dr.M.C.Koravanavar ADA,KSDA, Gadag Shri G.R.Odugoudar President, Mango and Cashew Farmers' Association, Hulkoti Shri V.G.Hiregoudar President, Farmers' Producers Organisation, Hulkoti 	4	3

PART XII. IMPACT

Nome of encoifie	No. of		Change in in	come (Rs.)
technology/skill transferred	participants	% of adoption	Before (Rs./Unit)	After (Rs./Unit)
Fall army worm management in Maize crop	72	70	Rs.12,000/ha	Rs.18,000/ha
Sucking pest management in Cashew	43	75	Rs.50,000/ha	Rs.75,000/ha
Pod borer management in Bengalgram crop	154	60	Rs.22,000/ha	Rs.30,000/ha
Azolla as animal feed	86	40	Rs.35,000/cow /lactation	Rs.40,000/cow / lactation
INM in Groundnut	74	35	Rs.25,000/ha	Rs.35,000/ha
Capsule borer management in Safflower crop	62	60	Rs.15,000/ha	Rs.25,000/ha
TS-3R variety of Redgram crop	125	80	Rs.25,000/ha	Rs.35,000/ha
Processing of Foxtail Millet with EDP Skills	35	25	Rs.3000/Qtl	Rs.8000/Qtl

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

12...B. Cases of large scale adoption

(Please furnish detailed information for each case with suitable photographs)

LARGE SCALE ADOPTION OF CASHEW

Gadag district is predominantly an agrarian district having cultivable land of 3.93 lakh ha. Out of this,

only 10 per cent of the area is under irrigation. The district gets rainfall from South-West monsoon from June to September and North-East monsoon from October to November. Average rainfall of the district is 612 mm which is erratic and ill distributed. Recurring agriculture droughts are common with the probability of 70-80 per cent of years . Long dry spells in Kharif season and receding soil moisture in rabi season are the characteristic features of the drought resulting in adverse effect on the sustainability of crop productivity. This situation is more severe in the



places where faming is practiced in red soil area. About 30 percent of the soil type in the district is red sandy loam. Majority of the farmers take up groundnut crop during Kharif season in red soil area. The average productivity of groundnut is very low at 6.75 quintals per ha and thus the farming in red soil has become a non-viable enterprise. The livelihood support system of farmers in red soil area is under threat.

In order to address the issue, KVK organised several sensitization programmes in the villages on importance of crop diversification in rainfed areas. Farmers were made aware of cashew cultivation and its economics compared to cultivation of Spreading Groundnut. These programmes created lot of impact in terms of farmers' interest to take up dryland cashew cultivation.

KVK organised Awareness cum Training programmes on Cashewnut cultivation. 36 training courses have been organised for 696 farmers. Exposure visits of farmers have been organised to KVK instructional farm and Cashewnut orchards established by progressive farmers under KVK guidance.

KVK organised Front Line Demonstrations on farmers' fields for Cashewnut promotion. During the period from 2013-14 to 2018-19, KVK organized Front Line Demonstrations in 16 hectares of area covering 41

farmers. These demonstrations have created a huge impact in terms of farmers' interest to take up Cashewnut cultivation.

KVK had collaboration with Directorate of Cashew and Cocoa Development, Cochin, Department of Horticulture and Reliance Foundation for promotion of Cashew. KVK organised Seminars, Farmer-Scientist interaction, field and diagnostic visits and facilitated marketing of raw Cashewnuts. Comprehensive interventions of KVK with convergence mechanism have paved the way for spread of 500 ha. Cashew area in Gadag district.

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

IMPACT ANALYSIS OF MAIZE+REDGRAM INTERCROPPING SYSTEM

INTRODUCTION:

Maize is an important cereal crop cultivated predominantly under rainfed situation in Kharif season in Gadag district. It occupies 15-20 per cent of the total cultivable area. The average productivity of crop decreased from 25 Qtls./ha during last decade to

14 Qtls/ha. during current decade. The major reason for decreased productivity is due to moisture stress caused due to long dry spells during June to August months after sowing. During the last couple of decade, the district has been experiencing climate variability with



respect to shift in the rainfall pattern as well as its distribution. This situation has severely affected the productivity of Maize and income of farmers.

KVK INTERVENTIONS :

KVK adopted Mahalingapur village in Gadag taluk under NICRA project. The village is representative village of the district with respet to productivity constraints in Maize. Since Maize is the important crop of the village, KVK made interventions of intercropping of Redgram in Maize in



the ratio of 5:1, Short duration TS-3R variety of Redgram was introduced as intercrop. Maize crop suffers from moisture stress during vegetative stage (45-50 DAS) resulting in less yield. On the contrary, Redgram also suffers from moisture stress during early vegetative stage. But later the crop gets sufficient moisture during grand growth period and flowering stage as the crop duration of

the Redgram is long (155 days) compared to Maize. Redgram crop escapes moisture stress as sufficient rains coincides with grand growth, flowering and pod formation period.

KVK organised Front Line Demonstration on Maize+Redgram intercropping system in Mahalingapur and surrounding villages of Beladhadi, Kabalayatakatti and Nabhapur. The details of programmes implemented year-wise is presented in Table:-1

SI. No	Year	Area (Ha.)	No. of farmers
1	2015-16	8	20
2	2016-17	30	75
3	2017-18	16	40
4	2018-19	20	50
	TOTAL	74	185

Table:1 FLD programme on Maize+Redgram intercropping system

During four year period, KVK introduced Maize+Redgram intercropping system in 74 ha. covering 185 farmers

DETAILS OF TECHNOLOGIES DEMONSTRATED :

Maize +Redgram intercropping system was demonstrated with following technologies:

- Introduction of Redgram as an intercrop in Maize as Redgram can sustain early and mid-season drought during Kharif season.
- Demonstration of medium duration TS-3R variety in Redgram @7.5kg/ha.
- Seed priming with Calcium Chloride @ 2% to enhance germination percentage, to improve the crop vigour and to induce drought tolerance to the crop.
- Seed treatment with Bio-fertilizers (PSB & Rhizobium) which facilitates drought tolerance in crops through the supply of nutrients.
- Opening of conservation furrows at every 25-30 feet interval at 20-25 DAS for insitu moisture conservation during crop growth period for enhancing moisture availability to the crop.
- Foliar spray of Pulse Magic @ 1% (mixture of micronutrient formulated by UAS, Raichur for pulse crops) during flowering stage for enhancing pod setting percentage and pod development through supplementation of micronutrients.
- Biological control of pest in Redgram for effective control of pod borer through pheromone traps and yellow sticky traps.

RAINFALL PATTERN :

Rainfall data of Mahalingapur cluster of villages is presented in Table-2. The data presented reveals that out of four years the average rainfall of 3 years i.e. 2015-16, 2016-17, 2017-18 and 2018-19 is very less compared to normal rainfall.

Months	Normal	2015-16	2016-17	2017-18	2018-19
		Actual	Actual	Actual	Actual
June	85.20	67.76	110.70	5.90	52.40
July	70.60	8.63	61.00	14.60	9.30
August	75.40	68.50	57.00	47.60	29.10
September	137.40	91.80	141.30	129.40	27.70
	368.60	236.69	370.00	197.50	118.50
% of deviation		-35.78	+0.37	-46.41	-67.85

Table-2 : Rainfall data in Mahalingapur cluster of villages

ECONOMIC PERFORMANCE OF DEMONSTRATION:

KVK demonstrated Maize+Redgram intercropping system along with resilient technologies in

74 ha. covering 185 farmers in Mahalingapur cluster villages during 4 years period. The data presented in Table-3 reveals that average crop equivalent yield of 36 Qtls./ha was achieved in the demonstration plots. The data clearly reveals that there has been doubling of income in demonstration plots compared to sole cultivation of Maize during all the four years. When we look into



average net returns, it was triple as against local check. It is interesting to note that these yield level are achieved even during deficient rainfall years (Table:-2)

			Yield (Qtl./ha.)				Net Re	Net Returns (Rs./ha.)	
		No. of	Demo		Local	Crop			
Year	Area (ha.)	farmers	Maize	Redgram	as sole	yield yield (Qtls./ha.)	Demo	Local	
					crop				
2015-16	85.20	20	18.40	4.95	21.95	36.96	11374	712	
2016-17	70.60	25	14.66	5.60	17.90	33.83	13653	4678	
2017-18	75.40	40	20.00	5.75	24.50	42.50	13375	2368	
2018-19	137.40	50	21.50	2.98	24.77	30.33	12607	8528	
TOTAL	368.60	185	18.59	4.82	22.28	36.00	12752	4071	

Table: 3-Economic performance of Maize+Redgram intercropping system

ADDITIONAL NET RETURNS FROM DEMONSTRATION FIELD :

The data presented in Table-4 reveals that 185 farmers participating in demonstration programme in 74 hectares got Rs.12.50 lakhs as additional returns during 4 year period from 2015-16 to 2018-19. This is one of the good indicator of impact of Maize+Redgram intercropping system. This has created lot of impact in terms of spread of technologies to other farmers.

Table: 4-Additional returns from Maize+Redgram intercropping system

Year	Yi Demo Yield CEY (Qtls/ha.)	eld Local check (QtIs./ha.)	Additional Yield (Qtls./ha.)	Price (Rs./ qtl)	Additional Returns (Rs. /ha)	Total area of demo (ha.)	Total additional returns from demo (Rs.)
2015-16	39.96	21.95	15.01	1200	18012	8	144096
2016-17	33.83	17.90	15.93	1300	20709	30	621270
2017-18	42.50	24.50	18.00	1150	2070	16	331200
2018-19	30.33	24.77	5.56	1400	7784	20	155680
TOTAL						74	1252246

SPREAD OF TECHNOLOGY TO OTHER FARMERS :

As a result of KVK interventions through Front Line Demonstrations, trainings and extension programmes, there has been a spread of the technology in 2100 ha. of area including area under demonstrations during last four years involving 2570 farmers. During 2018-19 itself 1500 ha. of area was brought under Maize+Redgram intercropping system. The spread has been noticed mainly in Mahalingapur cluster of village. This indicates that farmers have been convinced about the profitability of intercropping system. During last four years, 2570 farmers have got net returns of Rs.270 lakhs, thus contributing lot to the district economy.

Year	Area (ha.)	No. of farmers	Net Returns (Rs./ha.)	Total net returns (Rs.)
2015-16	8	20	11374	90992
2016-17	100	150	13653	1365300
2017-18	500	700	13375	6687500
2018-19	1500	1700	12607	18910500
TOTAL	2108	2570	51009	27054292

 Table: 5-Year wise approximate spread of area and total net returns in

 Maize+Redgram intercropping system

CONCLUSION :

Maize+Redgram intercropping system with resilient technologies demonstrated by KVK has created a huge impact in Mahalingapur cluster of villages in terms of good net returns and income of farmers. Farmers have been convinced about the profitability of technologies as good net returns were achieved during drought years of 2015-16, 20117-18 and 2018-19. There has been a spread of technologies in 2500 ha. involving 2570 farmers in Mahalingapur cluster of village in last four years and these farmers got Rs.270 lakhs as net returns. Thus the demonstrations have huge impact in improving the income of farmers in rain shadow district of Gadag

PART XIII - LINKAGES

13.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Directorate of Cashewnut and	i) Awareness on Cashew promotion
Cocoa Development, Cochin	ii) Organisation of Seminar on Cashewnut crop
	iii) Training on production technology of Cashewnut
	iv) Advisory services for cashew farmers
Agriculture Skill Council of India	Organization of Skill Training on job role
	"Vermicompost Producer and Dairy Entreprenurship"
Karnataka State Department of	Training programmes & serving as Resource Persons in
Agriculture	different schemes, joint organisation of extension activities
Karnataka State Department of	Capacity building of FPOs
Horticulture	
Reliance Foundation	Capacity Building Programme for FPOs and advisory services
	for farmers
Department of Animal Husbandry	Organisation of Workshop on Management of Foot and Mouth
and Veterinary Services	Disease and Brucellosis in dairy animals
Shree Kshetra Dharmastala Rural	Training programmes for SHG Members and participation as
Development Foundation	Resource Person

13.B. List 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.)
Capacity Building of FPOs	June, 2019	Karnataka State Department of Horticulture	3,00,000
Agricultural Skill Council of India	January, 2019	ASCI, New Delhi	3,67,000

13.C. Details of linkage with ATMA

a) Is ATMA implemented in your district : Yes

If yes, role of KVK in preparation of SREP of the district?

KVK provided input on problem identification , prioritization, researchable issues and strategies / technologies for different agro-eco systems in the district

Coordination activities between KVK and ATMA:

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	KVK-ATMA Interface Meetings and ATMA Steering Committee Meetings	2	5	-
02	Research projects	-	1	1	-
03	Training programmes	 ICM Value addition Farmers' Producers Organisation Integrated Farming System 	9	5	-

S. No.	Programme	Particulars	No. of programmes attended by	No. of programmes Organized by	Other remarks (if any)
			KVK staff	KVK	
04	Demonstrations	-	5	120	Jointly organized with ATMA funding
05	Extension Programmes		11	10	Jointly organized with ATMA
	Kisan Mela	-	1	1	-
	Technology Week	-	1	1	Jointly organized with ATMA
	Exposure visit	-	-	-	-
	Exhibition	-	1	1	Jointly organized with ATMA
	Soil health camps	-	1	1	Jointly organized with ATMA
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	-	-	-	-
	Field Day	Bengalgram	1	1	Jointly organized with ATMA
	Jal Shakti Abhiyaan	-	1	1	Jointly organized with ATMA
	World Food Day	-	1	1	Jointly organized with ATMA
	International Womens' Day	-	1	1	Jointly organized with ATMA
	World Soil Health Day	-	1	1	Jointly organized with ATMA
	Farmers' field school	-	-	-	-
06	Publications				
	Video Films	-	-	-	-
	Books	-	-	-	-
	Extension Literature	-		-	-
	Pamphlets	-	-	-	-
	Others (Pl. specify)	-	-	-	-
07	Other Activities (PI. specify)				

13.D. 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

13.E. 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

13.F. 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	SMS/voice calls sent (No.)						Total	Farmers
	type	Crop	Livest	Weather	Marke	Awaren	Other	SMS/	(No.)
	(Text/Voice)		ock		ting	ess	enterpris	Voice	
							es	calls sent	
								(No.)	
April	Text	0	1	0	1	0	0	2	15233
May	Text	1	0	1	1	0	1	4	15233
June	Text	0	0	1	0	1	1	3	15239
July	Text	2	1	2	0	1	0	6	15239
	Voice	2	0	0	0	1	0	3	98000
August	Voice	2	0	1	0	1	1	5	15239
	Text	5	0	0	0	1	1	7	98000
	Text	4	1	0	0	0	0	5	15239
September	Voice	1	0	0	1	0	0	2	38000
October	Voice	1	0	0	0	0	0	1	15191
November	Text	2	1	0	1	1	0	5	15240
	Voice	2	1	0	0	1	0	4	38000
December	Text	4	1	0	0	1	0	6	15243
	Voice	4	1	0	0	1	0	6	38000
January	Text	1	0	0	0	0	0	1	15243
	Voice	0	0	0	0	0	1	1	38000
February	Text	3	1	0	1	1	1	7	15243
	Voice	3	1	0	1	1	1	7	38000
March	Text	1	1	0	1	2	0	5	15243
	Voice	2	1	0	0	1	0	4	38000
Total		40	11	5	7	14	7	84	60682 5

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

SI	Domo	Year of	Aroa	Details of production			Amount (Rs.)		Pomar
No.	Unit	establi shment	(ha)	Variety	Produce	Qty.	Cost of inputs	Gross income	ks
1	Green House	2007	250 sq.ft	Alphonso Mangoes	Grafts	1000	5000	15000	-

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

Name of the	Date of	Data of	Aroa	Details of	of productio	n	Amoun	t (Rs.)	Re
crop	sowing	harvest	(ha)	Variety	Type of	Qty.	Cost of	Gross	ma
0.00	g		(,	Vallety	Produce	(Qtl)	inputs	income	rks
Cereals		47.00.00		001/00/7		05.0		07500	
Rabi Sorghum	14.11.19	17.03.20	3.0	SPV-2217	Seeds	25.0	6800	87500	
Finger millet	15.08.19	13.12.19	2.10	DHFT-109-3	Seeds	2.5	2020	7500	Crop failed due to heavy rains
Browntop millet	16.08.19	02.12.19	2.70		Seeds	2.0	3300	14000	Crop failed due to heavy rains
Maize	22.08.19	29.12.19	0.50	MRM-4070	Grains	2.5	2000	4500	
Pulses				5001/0			1000		
Greengram	22.06.19	06.09.19	0.6	DGGV-2	Seeds	3.0	1200	24000	
Bengalgram	06.11.19	14.02.20	0.8	GBM-2	Seeds	5.0	5000	25000	
Bengalgram	16.11.19	07.03.20	0.4	BGD-111-1	Seeds	2.0	4400	10000	
Bengalgram	23.11.19	28.02.20	0.8	JAKI-9218	Seeds	5.0	6600	25000	_
Reagram	15.08.19	01.03.20	4.80	15-3K	Seeds	12.0	22500	72000	failed due to heavy rains
Oilseeds									
Groundnut	28.06.19	04.11.19	1.0	KDG-128	Seeds	17.85	11600	107100	
Groundnut	0907.19	31.10.19	1.0	TG-37A, DGRMB-24, DGRMB-32	Seeds	10.5	17750	63000	
Castor	22.08.19	25.01.20	0.40	ICH-66	Seeds	2.5	1950	12500	
Safflower	15.10.19	26.02.20	3.2	ISF-764	Seeds	35.0	22800	157500	
Summer Groundnut	23.12.19	08.05.20	0.4	DH-256	Seeds	5.0	5750	30000	
Fibers									
Spices & Planta	ation crops	1	I	1	•	1	1	1	
Cashewnut			1.20	Vengurla-4	Nuts	7.0		91000	-
Floriculture							-		
Fruits							-		
Tamarind			0.60	PKM-1 & DTS-1	Fruit	25.0		100000	-
Amla			0.60	Krishna, Kanchan	Fruit	7.51		15020	-
Mango			0.80	Alphonso	Fruit	3.0		24000	-

Name of the	Name of the Date of Date of Are		Aroa	Details o	Amount (Rs.)		Re		
crop	sowing	harvest	(ha)	Variety	Type of Produce	Qty. (Qtl)	Cost of inputs	Gross income	ma rks
Guava			1.00	Lucknow-49	Fruit	5.0		5000	-
Sapota			1.00	Cricket ball	Fruit	5.3		5300	-
Vegetables									-
Onion	03.07.19	15.11.19	1.2	Bhima super	Bulb	20.0	15100	60000	-
Onion Seed production	03.12.19	08.04.20	0.4	Bhima super	Seeds	0.75	78200	112500	
Others (specify)									

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

61	Name of the		Amount (F	Amount (Rs.)			
No.	Product	Qty	Cost of inputs	Gross income	Remarks		
1	Vermicompost	130.0 Qtl	23611	39000	-		
2	Earthworms	1.90 Qtl	12500	62120	-		
3	Azolla	0.33 Qtl	1600	3300	-		

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

SI	Name of the animal / bird / aquatics	Details	of product	ion	Amour		
No		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Buffaloes	Local	Milk	465 lit	14500	18600	-
2	Sheep	Rambullet local cross	Lamb	2 lamb	3000	13000	-
3	Goat	Jamunapuri local cross	Kid	2 kid	4000	11000	-
4	Poultry	Swarnadhara	Egg	247	700	1840	-

14E. Utilization of hostel facilities

Accommodation available (No. of beds) : 30

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2019	54	2	-
Мау	22	2	-
June	30	29	-
July	25	29	-
August	45	30	-
September	57	10	-
October	26	17	-
November	26	12	-
December	110	20	-
January 2020	40	29	-
February	0	0	-
March	0	0	-

14F. Database management

S. No	Database target	Database created
1	OFT	Already maintained
2	FLD	Already maintained
3	Training database	Already maintained

S. No	Database target	Database created
4	Seeds & planting material	Already maintained
5	All Extension activities	Already maintained
6	Farmers visiting to KVK	Already maintained
7	Field visits	Already maintained
8	District database	Already maintained
9	Soil & water test details	Already maintained
10	Database on KVK (i.e regarding KVK details, host institute details, staff information, KVK land information, KVK infrastructure, demo units, vehicle, office, lab, farm equipment & library)	Already maintained
11	HRD of KVK staff (i.e training/seminar/workshop attended by KVK staff)	Already maintained
12	Publications of KVK activities in news papers	Already maintained
13	Villages covered by KVK since inception	Already maintained
14	Kisan mobile advisory services – Subscribers and messages	Already maintained
	sent	
15	Farm implements	Already maintained
16	Citizen's Client Charter	Already maintained

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

Amount	Expen	Details of infrastrue	cture			Quantity	Area			
sanction	diture	created / micro irrig	gation	No. of	No. of	No. of	Visit by	Visit by	of water	irrigate
(Rs.)	(Rs.)	system etc.		Training	Demonst	plant	farmers	officials	harvested	ld /
				program	rations	materia	(No.)	(No.)	in '000	utilizati
				mes		ls .			litres	on
						produc				pattern
100000	100000	Cradad bund	5054 C	6	7	ea	262	24	100	1 1 2
100000	100000	Graded bund	5054.0 8 cm	0	1	0	203	24	108	1.13 bo
		Construction of	0.011							IId
		waste weirs								
		1)1 52 feet crust	5 Nos							
		length	0 1100.							
		2)1.83 feet crust	7 Nos.							
		length								
		3) 2.44 feet crust	4 Nos.							
		length								
		4) 2.74 feet crust	3 Nos.							
		length								
		5) 3.00 feet crust	3 Nos.							
		length								
		Farm pond	2 Nos.							
		Infiltration wells	<u></u>							
		a) Infiltration Well	9 Nos.							
		D)Common tank	1 NO.							
		Bore well recharge	T NO.							
		pil Sub curface dam	2 Noc							
		Sook nite	2 NOS. 1/7							
		Drin irrigation	5 Ha							
		system for Dry	Jila.							
		land Horticulture								
		Check dam	1							

PART XV – SPECIAL PROGRAMMES

15.1 Paramparagath Krishi Vikas Yojana (PKVY) :

SI	Name	Initial soil fertility status (Average		lity status (Average		Facilities	Name	Vari	Organic	Yield	Econo	omics
No	of		of cluster	village)		created	of	ety	inputs	(q/ha)		
•	cluste	Aval. N	Aval. P	Aval. K	OC	for	Crops		applied		Cost of	Net
	r				%	organic	cultivat		including		cultiva	return
	villag					source of	ed		bio-		tion	S
	е					manure			agents		(Rs/ha	(Rs/ha
									and))
									botanicals			
									treatment			
1	Shira hatti	62.50 to 162.50 Kgs/ha. Low	1.25 to 6.25 Kgs/ha. Low	90 to 210 Kgs/ha. Low to mediu m	0.16 to 0.34 Kgs/ ha. Low	 Vermico mpost Jeevamr uta Beejamr uta Pancha gavya 	Foxtail Millet	DHF t- 109- 03	 i) Seed treatme nt with Beejam ruta @ 5% ii) Soil applicat ion with 2 tons of Vermic ompost enriche d with Jeevam ruta 	8.98	18858	8079
							Rabi Sorghu m	SPV - 2217	 i) Seed treated with Beejam ruta at 5% ii) Vermic ompost @ 2 ton per ha. enriche d with Jeevam ruta 	6.63	14471	8720
							Wheat	Kira n	 i) Seed treated with Beejam ruta at 5% ii) Vermic ompost @ 2 ton per ha. enriche d with Jeevam 	6.62	17650	4210

SI	Name	Initial so	oil fertility	status (Av	erage	Facilities	Name	Vari	Organic	Yield	Econo	omics
INO	oi cluste	Aval. N	Aval. P	Aval. K	00	for	Crops	ety	applied	(q/na)	Cost of	Net
•	r				%	organic	cultivat		including		cultiva	return
	villag				70	source of	ed		bio-		tion	s
	e					manure	•••		agents		(Rs/ha	(Rs/ha
	-								and))
									botanicals		,	,
									treatment			
									ruta			
									iii) Yellow			
									sticky			
							Bongal		i) Sood			
							aram	11	soaking			
							5		with			
									Beejam			
									ruta @			
									seed			
									treated			
									with			
									Trichod			
									erma @			
									gm/Kg			
									ii) Seed			
									treatme			
									nt with Phizobi			
									um @			
									1250			
									gm/ha			
									& PSB			
									@ 1250 gm/ha			
									iii) Soil	0.00	10010	40704
									applicat	6.98	19910	10784
									ion of			
									Vermic			
									enriche			
									d with			
									Jeevam			
									ruta@			
									∠.⊃ ton/ha			
									iv) Spray			
									of			
									Nimbici			
									aine @ 2 ml /lit			
									with			
									Pancha			
									gavya			
									@ 5%			
									of Anni-			
									astra @			
									10%			
									vi) Yellow			

SI No	Name of	Initial soil fertility status (Average Fa of cluster village) cr			Initial soil fertility status (Average of cluster village) Facilities of created of	Name of	Vari ety	i Organic inputs	Yield (q/ha)	Economics		
	cluste r villag e	Aval. N	Aval. P	Aval. K	OC %	for organic source of manure	Crops cultivat ed		applied including bio- agents and botanicals treatment		Cost of cultiva tion (Rs/ha)	Net return s (Rs/ha)
									sticky traps @ 8 Nos/ha			

15.2 District Agriculture Meteorological Unit (DAMU)

	Agro advisories			Farmers awareness programmes				
Sl	No of Agro	No of farmers	No of farmers	No of	No of farmers			
No.	advisories	registered for	benefitted	programmes	benefitted			
	generated	agro						
		advisories						
1								
2								
3								
4								

15.3 Fertilizer awareness programme 2019

State	Name of KVK	Details of Activities/programme Organised	Number of Chief Guests	No. of Farmers attended program	Total participants
Karnataka	KVK, Hulkoti	Awareness on efficient utilization of fertilizer	6	220	226

15.4 Seed Hub

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

15.5 CFLD on Oilseed : As per the excel sheet enclosed

15.6 Seed on Pulses : As per the excel sheet enclosed

15.7 Krishi Kalyan Abhiyan

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

150 M					

105

15.8 Micro-Irrigation

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

15.9 Nutri Garden

Nutri garden plays an important role in providing good nutrition to farm families. Though it is important many farm families are not cultivating vegetables and fruits in the backyard or in the farm for home consumption. They used to buy the vegetables and fruits from the market. Fluctuations in price and the non-availability of fruits and vegetables locally lead to nutrition deficiency. In order to promote the consumption of nutritionally rich and chemical free fruits and vegetables the nutritional gardens were established in DFI villages of Gadag district.

Objectives:

- To promote nutrition garden in farm families
- To reduce cost incurred on purchase of vegetables
- To know the nutritional status of farm women before and after the implementation of nutrition garden
- To reduce Malnutrition and nutrition deficiency disease
- To promote organic methods of pest control & bio-fertilisers
- To know the nutritional adequacy before and after establishment of nutri garden

Particulars	Categories	Numbers
Age	25-35	15
	35-45	19
	45-55	6
Categories	SC	-
	ST	-
	Others	45
Occupation	Agriculture	43
	House wives	2
	Others	-
Education status	Illiterate	10
	Primary	26
	Secondary	9

General Information of the families (N=45)

Average monthly income of families	Rs.6000/-	
Expenditure pattern	Food	2800
	Education	500
	Health and medicine	450
	Fruits and vegetables	1200
	Others	1000
	Total Rs. 5950/-	

Activities conducted

- Provided vegetable seeds like brinjal, tomato, chilli, radish, beetroot, carrot etc., leafy vegetables like palak, amaranthus, methi, shepu etc., fruit plants and spices like Guava, Papaya, lime, drumstick, curryleaf etc. and seeds of super foods like Chia, Quinoea, Grain Amaranth
- Training to farm women on nutri garden : 6 Nos.
- Awareness on health and nutrition : 8 Nos.
- Field days : 3 Nos.
- Exposure visit : 6 Nos.
- Field visits : 22 Nos.

<u>Results</u>

1) Production of vegetables

Quantity of leafy vegetables produced (Area: 38 Guntas, 0.5-1 Gunta/demo)

Palak	Amaranthus	Shepu	Hunchik	Coriander	Spring Onion	Radish	Total
(Bundles)	(Bundles)	(Bundles)	(Bundles)	(Bundles)	(Bundles)	(Bundles)	(Bundles)
747	628	610	620	603	528	594	4330

Quantity of other vegetables produced (Area: 38 Guntas, 0.5-1 Guntas/demo)

Brinjal (Kg.)	Tomato (Kg.)	Beetroot (Kg.)	Carrot (Kg.)	Ridge Guard (Kg.)	Cluster Beans (Kg.)	Cucumber (Kg.)	Total
578	544	366	256	548	231	240	2763

Total Production of Leafy Vegetables, Other Vegetables and B.C. Ratio

Quantity of leafy vegetable produced	Rate per bundle (Rs.)	Quantity of other vegetables produced (Kg.)	Rate per Kg of vegetable (Rs.)	Total (Rs.)	Gross Cost (Rs.)	Gross Return (Rs.)	Net Return (Rs.)	B.C. Ratio
4330	4	2763	40	115320	25000	115320	90320	4.61

Percentage adequacy of vegetables

Parameters	Quantity produced / availability
Quantity of vegetables produced / month / family	15.64 Kg
Average availability of vegetables / day / person	130 gms
Percentage adequacy of vegetables	37.14 %

Average consumption of nutrients and percentage adequacy before and after implementation of nutri garden

Nutrients	RDA#	Before Inter	rvention	After Intervention		
		Mean	Percentage adequacy	Mean	Percentage adequacy	
Energy (K calories)	2230	1674.67	75.10	1885.61	84.56	
Protein (gms)	55	44.10	80.18	47.07	85.58	
Fat (gms)	25	15.84	63.37	19.92	79.69	
Fibre (gms)	30	9.38	31.28	10.51	35.02	
Iron (mg)	21	18.18	86.57	18.59	88.51	
Calcium (mg)	600	248.60	41.43	311.06	51.84	
Carotene	4800	1076.05	22.05	1701.66	34.87	
(Micro gm)						
Vitamin C	40	30.25	75.61	35.66	89.15	

FEEDBACK OF FARM WOMEN ON NUTRI-GARDEN

- The Nutri Garden established at the backyard of house and in the farm helped to get fresh vegetables throughout the season.
- The amount spent towards purchase of vegetables has been reduced from Rs.19,200 per year to Rs.7200 per year.
- The consumption of leafy vegetables has increased from twice a week to 4 5 times a week.
- The percentage adequacy of nutrients after the implementation of Nutri Garden has increased among farm women.
- Th farm women expressed the happiness about the Nutrition Garden as they came to know about the cultivation of Betroot, Carrot, Hunchik and consumption of these vegetables has increased.

PART XVI - FINANCIAL PERFORMANCE

16A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host	-	-	-	-	-	-	-
Institute							
With KVK	SBI	Gadag	0838	KHP	10824829153	582002002	SBIN0000838
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		_		KVK			
				Hulkoti			

16B. Utilization of KVK funds during the year 2019-2020 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Ree	curring Contingencies			
1	Pay & Allowances	16500000	16500000	16031289
2	Traveling allowances	135000	135000	134968
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	250000	250000	249937
В	POL, repair of vehicles, tractor and equipments	300000	300000	299908
С	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	150000	150000	149970
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	50000	50000	49960
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	414000	414000	413919
F	On Farm Testing (on need based, location specific and newly generated information in the major production systems of the area)	68000	68000	67700
G	Integrated Farming System	0	0	0
Н	Training of Extension Functionaries	25000	25000	25000
1	Extension activities	35000	35000	34960
Н	Farmers' Field School	30000	30000	30000
- 1	EDP / Innovative activities	60000	60000	59992
J	Maintenance of buildings	50000	50000	49990
К	Establishment of Soil, Plant & Water Testing Laboratory and issue of Soil Health Cards	25000	25000	25000
L	Maintenance of building	125000	125000	124788
М	Nutri Garden	25000	25000	24970
М	Library Maintenance	10000	10000	9960
	TOTAL (A)	18172000	18172000	17702321
B. No	n-Recurring Contingencies			
1	Works	0	0	0
2	Equipments including SWTL & Furniture	0	0	0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0	0	0
4	Library (Purchase of assets like books & journals)	0	0	0
ΤΟΤΑ	L (B)	0	0	0
C. RE	VOLVING FUND	0	0	0
GRAN	ID TOTAL (A+B+C)	18172000	18172000	17702321

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year	
April 2017 to March 2018	6.087	37.325	42.071	1.341	

April 2018 to March 2019	1.341	28.856	24.064	6.133
April 2019 to March 2020	6.133	21.419	19.246	3.96

17. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr.L.G.Hiregoudar	Senior Scientist and Head	Workshop on Food processing technologies developed by CFTRI, Mysuru	Hotel Capitol, Bengaluru	29 November 2019
Mr.V.D.Vaikunthe	SMS (Agronomy)	Training on LRI under Sujala-III	NBSS & LUP, Bengaluru	20 April 2019
		Regional Horticultural Research, Extension, Advisory & Project Formulation Workshop (Northern Region)	KRCCH, Arabhavi. UHS- Bagalkot	29-30, May 2019
		National level seminar on Cashew	Bramavara organised by DCCD, Kochi	31 July – 2 August, 2019
Ms. Hemavati Hiregoudar	SMS (Horticulture)	Recent advances in Scientific Fruit crops cultivation	IIHR, Bengaluru	12 November, 2019
		Faculty development programme for KVKs of Southern states	EEI, Hyderabad	24-29, February 2020
		TOT for nursery worker	Sri Sai Institute of Agricultural Sciences & Technology, Bengaluru	07 March 2020
		Meeting on Vacuum packaging in Chilli at APMC, Byadagi	APMC. Byadagi	21-06-2019
Mr.S.H.Adapur	SMS (Ag. Extension)	National level seminar on Cashew	Brahmavara organised by DCCD, Kochi	31 July – 2 August, 2019
		International conference on strengthening of Agricultural Research & Development	ICAR-KVK, Suttur	14-16, December 2019
		Eco-friendly enterprises	VIKASANA, Institute for Rural and Urban Development, Mandya	12-13, July 2019
Dr. Sudha V.	SMS (Home	Workshop on nutri garden	KVK, Tumkur	05 August 2019
ivialikalii	Science)	Entrepreneurship Development Programme	IIHR, Bengaluru	19 October 2019
		Workshop on Food processing technologies developed by CFTRI, Mysuru	Hotel Capitol, Bengaluru	29 November 2019

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
			NASC Complex,	28 February-
		National Conference of	New Delhi	01 March,
		KVKs		2020
		Training on LRI under	NBSS & LUP,	20 April 2019
		Sujala-III	Bengaluru	
Mr N H Bhandi	SMS (Soil Science)	Livelihood security of	ICAR-CSSFT,	31 January –
IVIT.IN.FT.DITATION		farmers through	Karnal, Haryana	7 February,
		technology interventions	State	2020
		in salt affected soils		

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

i) EDP THROUGH PRIMARY PROCESSING OF MILLETS AND SALES OF PROCESSED MILLET GRAINS

Millets are the important crops grown in Gadag district. Farmers used to sell the un-processed Millets which fetches low price in the market. In addition, they are not aware of the Millet nutrition and value addition of millets. In order to promote the daily consumption of Millets and to get higher returns from the Millets, the EDP on Primary Processing and Marketing of Millets was done.

Objectives:

- · To get good market price for the processed grains
- To imbibe EDP skills in production & marketing for small farmers
- To enhance returns from millet cultivation
- To create awareness on millet nutrition, value addition & promote daily consumption of millets

Activities conducted:

- Implemented EDP by taking 3 farm families.
- 12 trainings to farmers and farm women on crops and millet nutrition.
- 9 trainings to Extension Functionaries on Millet Nutrition.
- 2 value addition trainings.
- Developed brochures & Pamphlets on Millets.
- Exhibitions and fairs organised in collaboration with KSDA, organic farmers associations for promotion and marketing of Millets.
- Facilitated sales of millet products through ASF's Organic Store
- 2 Entrepreneurship Development Programmes on Millets was organized.
- Prepared labels & pamphlets to facilitate marketing of Millets.

				Income without processi ng (Rs.)		Income with processing Net income (Rs.)/\QtI								Rs.)			
SI. N o.	Name of the farmer	Place	Name of value added product	Market value of un process ed grains/ Qtl	Processi ng charges / Qtl	Wasta ge (Kg/Qt I)	Good quality marketa ble grains after primary processi ng (Kg/Qtl)	Price / Qtl of process ed grains (Rs.)	Gross Income/ Qtl (Rs.)	Net Income / Qtl (Gross income - processi ng charges (Rs.)	Total quantit y process ed (Qtls)	Processi ng charges (Rs.)	Good quality grains after primary processi ng	Gross income (Rs.)	Withou t processi ng (Rs.)	With processi ng (Rs.)	Additio nal profit gained (Rs.)
1	Shri Ashok	Shag	Foxtail Millet	2000	800	30 Kgs	70Kgs	8000	4800	4000	12	9600	840 Kg	57600	24000	33600	9400
	Halli	oti	Little Millet	2500	800	40 Kgs	60 Kgs	9000	5400	4600	1	800	60 Kg	4600	2500	4600	2100
				•	-			•	A	Additional i	ncome rea	lised by far	mers throu	gh primary	processing	of millets	11500
2	Shri Mallappa Venkanna	Mado	Foxtail Millet	2000	800	40 Kgs	60 Kgs	9000	5400	4600	3	2400	180 Kg	13800	6000	13800	7800
	Yaraguppi		Little millet	2500	800	40 Kgs	60 Kgs	10000	6000	5200	1	800	60 Kg	5200	2500	5200	2700
	1	[1		1		1		A	dditional i	ncome rea	lised by far	mers throu	gh primary	processing	of millets	10500

				Income without processi ng (Rs.)		Income with processing (Rs.)/\QtI								Net income (Rs.)			
SI. N o.	Name of the farmer	Place	Name of value added product	Market value of un process ed grains/ Qtl	Processi ng charges / Qtl	Wasta ge (Kg/Qt I)	Good quality marketa ble grains after primary processi ng (Kg/Qtl)	Price / Qtl of process ed grains (Rs.)	Gross Income/ Qtl (Rs.)	Net Income / QtI (Gross income - processi ng charges (Rs.)	Total quantit y process ed (Qtls)	Processi ng charges (Rs.)	Good quality grains after primary processi ng	Gross income (Rs.)	Withou t processi ng (Rs.)	With processi ng (Rs.)	Additio nal profit gained (Rs.)
			Foxtail Millet	2000	800	30 Kgs	70 Kgs	10000	7000	6200	1	1600	140 Kgs	12400	4000	8400	4400
	Smt		Little Millet	2500	800	40 Kgs	60 Kgs	10000	6000	5200	1	800	60 Kgs	5200	2500	5200	2700
3	Shashikala	Hulko	Ragi	2500	400	75 Kgs	1 Qtl	6000	4500	4100	1	400	75 Kgs	4100	2500	4100	1600
	Govindappa Nagavi	ti	Ragi Flour	2800	400	-	1 Qtl	7000	7000	6600	1	400	100 Kgs	6600	2800	6600	3800
			Korale	3500	800	40 Kgs	60 Kgs	18000	10800	10000	1	800	60 Kgs	10000	3500	10000	6500
			Baragu	3000	800	40 Kgs	60 Kgs	10000	6000	5200	1	800	60 Kgs	5200	3000	5200	2200
									ŀ	Additional in	ncome rea	lised by far	mers throu	gh primary	processing	of millets	21200
	(A) TOTAL AMOUNT (RS.) Realised through primary processing 43200										43200						

			Income without processing (Rs.)		Income with processing (Rs.)/\Qtl								Net income (Rs.)		
Name of the farmer		Name of value added product	Market value of un processed grains/Qtl	Raw material charges	Price/Kg of the product	Gross income	Net Income/Qtl (Gross income - Raw material charges)	Total quantity of value added product prepared	Raw material charges	Gross income (Rs.)	With out proc essin g	Net Income/Qtl (Gross income - Raw material charges)	Additional profit gained (Rs.)		
		Navane Muruku	2000	180	350	350	170	20 Kgs	1800	5200	200	3400	3200		
Smt Shashikala Govindappa	Hulkoti	Finger Millet Muruku	2500	150	350	350	200	20 Kgs	1500	5500	250	4000	3750		
Nagavi		Samae Muruku	2500	180	350	350	170	20 Kgs	1800	5200	250	3400	3150		
		Korale Muruku	3500	220	400	400	180	20 Kgs	2200	5800	350	3600	3250		
(B) Additional income realised by farm women through secondary processing of millets									13350						

EDP THROUGH SECONDARY PROCESSING OF MILLETS AND SALES OF VALUE ADDED PRODUCTS OF MILLETS

Details of Millet food supplied by Entrepreneur in Fairs and Exhibitions (Shri Ashok Halli, Shagoti village)

SI. No	Name of exhibition / fair	Meals (nos.)	Rate per meal (Rs.)	Tiffins (nos.)	Rate per tiffin (Rs.)	Total amount of meals (Rs.)	Total Amount of Tiffin (Rs.)	Expenditure (Rs.)	Net income (Rs.)
1	Krishi Mela (UAS, Dharwad)	150	75	90	40	11250	3600	6500	8350
2	Raita Sneha Sammelana (Organised by KSDA, Dharwad)	200	75	0	0	15000	0	7000	8000
3	Hampi Utsav (Support by KSDA, Koppal	300	60	150	40	18000	6000	11000	13000
4	Millet Mela & Organic Mela (Bengaluru)	200	100	0	0	20000	0	10000	10000
5	Rajeshwari Math Fair (Hulkoti)	0	0	100	40	0	4000	500	3500
						(C) Additional income realised through field preparation with millets			42850

Millet Food : Rotis of Foxtail Millet, Rice of Browntop Millet , Pulses, Vegetables etc.,

Total

(A) 43200.00(B) 13350.00(C) 42850.00

99400.00

CONCLUSION: 3 farmers got Rs.99400/- an additional income through this EDP

ii) EDP ON VALUE ADDITION AND MARKETING OF TAMARIND

Tamarind as the age old crop grown in Gadag distict. Farmers used to lease the plants which fetches low price in the market. In order to promote value addition and to get higher returns from the Tamarind, the EDP on value addition and marketing of Tamarind products was initiated.

Objectives:

- To imbibe EDP skills in marketing of Tamarind products
- · To get an additional employment through preparation of Tamarind products
- To enhance the income of farm families

Activities conducted:

- Implemented EDP by taking Pruthvi SHG from Shingatarayanakeri village of Mundaragi block
- Three training on value addition and 3 trainings on packing, labeling and marketing of Tamarind products
- Prepared labels and facilitated packing materials for marketing of tamarind products
- · Facilitated to participated in Exhibition & fairs for marketing of Tamarind products
- Initiated sales of Tamarind products to ASF's Organic Sales Unit and local shops & petty shops

Name of the SHG	Name of the SHG Member	Village	Taluk	Date of initiation
	Renuka Mahalingappa Shirund			
Pruthvi SHG	Kallavva Irappa Banavi	Singatarayanakeri	Mundaragi	13-01-2020
	Jayashree Mahesh Ruddanavar			

Production of tamarind products

Name of the product	Quantity produced (2 months period)	Rate / Piece or Kg (Rs.)	Total (Rs.)
Tamarind lollypop (Big size)	2500 nos.	4	10000
Tamarind lollypop (Small size)	4200 nos.	1.5	6300
Tamarind chutney	15 Kg	120	1800
		Total (Rs.)	18100

CONCLUSION : 3 farm women got Rs.18100/- as additional income through EDP on value addition in Tamarind