

KRISHI VIGYAN KENDRA VIJAYAPURA-II (Indi)

ANNUAL REPORT-2019

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

KVK Address and Host Organization details

ICAR – Krishi Vigyan Kendra, Vijayapura- II, Station Road, Indi -586 209
University of Agricultural Sciences, Krishi Nagar, Dharwad-580005

PART I - GENERAL INFORMATION ABOUT THE KVK

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

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
ICAR – KrishiVigyan Kendra, Vijayapura- II, Station Road, Indi -586 209	08359-225666	08359-225666	kvkindi2016@gmail.com kvkindi@uasd.in KvK, Vijayapura2@icar.gov.in	www.indikvk.org

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Agricultural Sciences, Krishi Nagar, Dharwad-580005	0836-2447494	0836-2748199	de@uasd.in	English website : http://www.uasd.edu Kannada website : http://www.uasd.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. R.B. Negalur Sr. Scientist (Agronomy) and Head,	9606337715/9448495320	7829629407	tushberkipilli@rediffmail.com

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
John Deer Tractor	2018	5,58,215	230hrs	Good and working
Bolero SLE 2WD	2018	7,16,321	8,132kms	Good and working

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.) in lakh	Present status
Dell Desktop OptiPlex 5250	2018	1.18	Good and working
Hp printer M227 SDN	2018	0.24	Good and working
Mike (sound) system	2018	0.31	Good and working
Kenstar Cooler	2018	0.26	Good and working
Pedestal Fans 400 mm Usha	2017	0.17	Good and working
Double door refrigerator 300/311 liters	2017	0.34	Good and working
Plastic chairs	2017	0.41	Good and working
Visitors chairs (stainless steel) 3 seat	2017	0.15	Good and working
Supply and fixing of notice board of size 4ft x 3 ft round mild steel popes with reverse "V" stand	2018	0.06	Good and working
Supply of white writing board size - 4ft x 3 ft	2018	0.03	Good and working
Supply and fixing of rotating book magazine display stand: (made of steel mesh with powder coated pipes fixed to mild steel star base)	2018	0.04	Good and working
Supply and fixing news paper reading stand (made of particle boards (2 No's) of size 3'x 2' with 1 inch round mild steel black powder coated pipes with black powder	2018	0.06	Good and working
Supply and fixing of Tripod stand (made with 1 inch round mild steel black powder coated pipes with black powder)	2018	0.02	Good and working
Supply and fixing of poster / banner display stand made of synthetic cloth size 6 ft x 3 ft fixed with 2 no's of 3 ft, wide clip, 1 inch round mild steel black powder coated pipes with black steel star base)	2018	0.16	Good and working
Water Tank	2019	1.20	Good and working
LED Projector Casio XJ-VI 2700 lumens resolution and Motorized screen 4 x 6	2017	0.7	Good and working
Kyocera digital multifunctional photocopier model: Taskalfa 2201, Duplex network printer	2017	0.98	Good and working
Hp Desktop core i5, 44 B RAM, 11B HDD, DVD, R/W, monitor , Keyboard, mouse	2017	0.49	Good and working
Hp Desktop core i5, 4GB RAM, 1TB HDD, DVD, R/W, monitor	2018	0.41	Good and working

18.5'', Keyboard, mouse			
Microtech 2 KV (sinewave) Invertor and tubular amaron battries	2018	0.36	Good and working
Cannon camera mi-E0S 1300D Body with single lens	2018	0.24	Good and working
Computer (Dell opti plex 5250 Alox)	2018	1.18	Good and working
Computer tables	2017	0.15	Good and working
Computer chairs	2017	0.08	Good and working
All in one desktop 8th generation 4 GB RAM screen 21.5 inch windows computer.	2019	0.59	Good and working
Executive table (Programme Co-ordinator)	2017	0.17	Good and working
Tables (T-9 SMS)	2017	0.76	Good and working
Chairs (Semi Executive Revolving mid back)	2017	0.33	Good and working
Tables (T-S Programme Assistant)	2017	0.21	Good and working
Tables (T-S Programme Assistant)	2017	0.072	Good and working
S - Type cane chairs (with arms)	2017	0.37	Good and working
S - Type cane chairs (without arms)	2017	0.32	Good and working
Alamirah (6 ft x 3ft)	2017	1.2	Good and working
Filing cabinet (04 compartment)	2017	0.28	Good and working
Filling cabinet (02 compartment)	2017	0.32	Good and working

1.8. Details of SAC meeting conducted during 2019

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
-	-	-	-	-

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Agriculture, Horticulture and Animal husbandry and Goat farming

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 –III	<p>Rainfall : Vijayapura district is characterized by the lowest rainfall in Karnataka state with an average rainfall of 579.0 mm. The district comprises five talukas namely BasavanaBagewadi, Vijayapura, Muddebihal, Indi and Sindagi. The five talukas receive rainfall between 565 to 635 mm. About 60 per cent of the annual rainfall is received in the normal monsoon season (June-September), 14 per cent in the pre monsoon (April-May) and about 23 per cent in the post monsoon months (October-November) generally the remaining months are dry.</p> <p>Temperature:The mean monthly maximum temperature varies from 29.3 °C (December) to a maximum of 39.0 °C (May). The mean monthly minimum temperatures are lowest (15.5 °C) during January, which increases gradually to maximum of about 23.3 °C (May).</p> <p>Relative Humidity: The moisture content of the air in the district varies from about 35 per cent during February, March and April to a maximum of about 70 per cent in July, August and September.</p> <p>Wind velocity: The district is characterized by high wind velocity especially during monsoon months. The wind speed varies between 3.6 KMPH (December) to 13.2 KMPH (July)</p>

S. No	Agro ecological situation	Characteristics
1.	Rainfed cropping in Monsoon (<i>Kharif</i>)	<p>Soils are shallow black(chalka) shallow light soil and red sandy loams because of better infiltration rate they get moistened with early rain in the month of June-July sufficient to take up sowing of <i>kharif</i> crops. Due to low water holding capacity of these soils and higher evaporative demand due to very high wind velocity during July and August month result in poor yields</p> <p>Tqs: B. Bagewadi, Indi, Sindgi and Vijayapura</p> <p>Crops:Bajra, greengram, redgram, sunflower, onion and groundnut</p>
2	Rainfed cropping in Monsoon (<i>Rabi</i>)	Deep black soils with more than 60 cm depth, the clay content of these soils is around 60% and hence very low infiltration rate

		Available water holding capacity of these soils is around 6 cm to 30cm. The crops grown in the post monsoon season have to mature on the residual soil moisture only. Tqs: B. Bagewadi, Muddebihal, Sindgi and Vijayapura Crops: <i>Rabi</i> sorghum, bengalgram and sunflower
3	Rainfed in both monsoon and post monsoon	Soils are medium deep black, fine red clay loam, red and black mixed soils. These soils have around 30-50 % clay content with Infiltration rate and fairly high water holding capacity. Poor investment capacity of the farmers in dry areas and lack of suitable non-cash inputs. Tqs: B. Bagewadi, Indi, Sindgi, Muddebihal and Vijayapura 4Crops: Bajra, greengram, redgram, sunflower, onion and groundnut
4	Medium deep black soil with <i>kharif</i> irrigation	Tqs: B. Bagewadi Crops: Onion, maize, cotton and redgram
5	Red soil and shallow soils with <i>kharif</i> irrigations	Tq: Indi Crops: Groundnut
6	Medium to deep black soil with <i>rabi</i> irrigation	Tqs: B. Bagewadi, Indi, Sindgi Crops: Wheat and Onion
7	Cropping with biseasonal irrigation	Tqs: Indi and Vijayapura Crops: Cotton and redgram
8	Cropping with perennial irrigation	Tqs: Indi, Sindgi and Vijayapura Crops: Sugarcane, grape, pomegranate, banana and lime

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Shallow black soil	Shallow black soils are generally present in Indi, Sindagi and Vijayapuratalukas and to some extent in Bagewadi and Muddebihaltalukas. The clay content of these soils is around 40 percent with moderate infiltration rate. The available water holding capacity of these varies between 3-4 cm per 30 cm soil depth. These soils generally belong to land capability class between III and IV.	2,62,586
2	Medium black soils:	Medium deep black soils occur predominantly in Bagewadi, Vijayapuraand Sindagitalukas. These soils have clay content around 50 per cent with low to moderate infiltration rate. Generally, they belong to land capability class between II and III. The available water holding capacity of these soils is around 5 cm per 30 cm	4,01,737

3	Deep black soils	Deep black soils predominately occur in Muddebihal, Vijayapura and B.Bagewaditalukas. The clay content of these soils is around 60 per cent and hence have very low infiltration rate. In general, these soils fall under land capability class-II. Post – monsoon cropping is most common on these soils. The available water holding capacity of these soils is around 6 cm per 30 cm soil depth.	2, 34,113
4	Red loam soils	This type of soil is found in immediate association with black soils and near hillocks. The depth varies from 15 to 100 cm and the clay content is around 30 percent according to topography and parent material from which they are formed and extent of weathering. These soils show moderate to good infiltration rate. The soils are neutral to slightly alkaline in reaction, deficient in nitrogen and phosphorus but contain moderate amount of potassium. The soil can hold about 4 cm of available water per 30 cm soil depth. The soils generally fall under land capability class-III. Such soils are predominantly found in B. Bagewadi and Indi talukas and predominantly put under kharif crops and under favorable seasonal conditions double cropping is practiced	48,061
5	Red sandy soils	Red soils are derived from any one of the four-parent materials viz. granite, gneiss, quartz or sand stone. The soils originated from granites or gneiss exhibit deep red or brown colour due to the presence of ferric oxide to the extent of 5 to 8 percent with varying degrees of hydration. The depth of soil varies according to topography. Soil depth to an extent of 2.0 m is also noticed. The pH of soil varies from 6.5 to 7.5. The profile is invariably free from lime and contains a few iron concretions scattered throughout the profile. The soils have good drainage and high infiltration rate. They respond well to manuring and irrigation.	20,230

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

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
	Crop production			
1.	Maize (K)	40207	264071	3848
2.	Bajra	25751	66451	990
3.	Redgram	262563	173653	1012
4.	Groundnut	24779	25629	676
5.	Sunflower	45335	25658	364
6.	Cotton	7717	30313	419
7.	Sugarcane	65136	2770006	78t/ha
8.	Sorghum	176980	205883	932
9.	Wheat	53842	49632	1003
10.	Bengal gram	322020	95013	551
11.	Safflower	13809	1367	372
12.	Linseed	3209	1190	399
13.	Sesamum	624	459	428
14.	Soybean	318	222	700
15.	Cotton	10524	7636(t)	372
16.	Sugarcane (K)	71343	1892149(t)	72(t/ha)
17.	Sugarcane (<i>Rabi</i>)	21428	2142800(t)	100 (t/ha)
18.	Sugarcane (Summer)	4935	493500(t)	100 (t/ha)
19.	Sorghum	190629	59113	850
20.	Wheat	53842	49632	1003
21.	Bengal gram	156892	126428	703
22.	Safflower	13809	1367	372
23.	Linseed	3209	1190	399
	Fruit crops			
24.	Banana	1479	29580	20(t/ha)
25.	Lime	6815	170375	25(t/ha)
26.	Guava	128	2560	20(t/ha)
27.	Pomegranate	2606	26060	10(t/ha)
28.	Ber	327	9810	30(t/ha)
29.	Grape	10582	211640	20(t/ha)
30.	Papaya	36	2401	35(t/ha)
31.	Ber	327	9810	20(t/ha)
32.	Custard Apple	64	448	07(t/ha)

33.	Grape	5464	185261	15(t/ha)
34.	Fig	28	84	03(t/ha)
35.	Other fruit crops	95	380	04(t/ha)
	Vegetable crops			
36.	Tomato	924	31470	34.06(t/ha)
37.	Brinjal	925	23125	25(t/ha)
38.	Onion	13391	267820	20(t/ha)
39.	Onion	9756	43391	24(t/ha)
40.	Green chilli	1036	7252	07(t/ha)
41.	Sweet Potato	105	1260	12(t/ha)
42.	Cabbage	06	102	17(t/ha)
43.	Cauli flower	08	136	17(t/ha)
44.	Lady's finger	352	2464	07(t/ha)
45.	Radish	210	21100	10(t/ha)
46.	Beet root	05	65	13(t/ha)
47.	Carrot	195	4095	21(t/ha)
48.	Capsicum	49	441	09(t/ha)
49.	Cluster beans	128	1024	08(t/ha)
50.	Drum stick	102	1122	11(t/ha)
51.	Water melon	23	644	28(t/ha)
52.	Methi	195	1950	10(t/ha)
53.	Palak	115	1150	10(t/ha)
54.	Amaranthus	37	296	08(t/ha)
55.	Curry leaves	120	600	05(t/ha)
56.	Other leafy vegetables	133	665	05(t/ha)
57.	Ash gourd	10	210	21(t/ha)
58.	Snake gourd	51	867	17(t/ha)
59.	Bitter gourd	86	774	09(t/ha)
60.	Ridge gourd	120	960	08(t/ha)
61.	Other gourds	66	660	10(t/ha)
62.	Other vegetables	126	882	07(t/ha)
	Spice crops			
63.	Tamarind	240	1200	05(t/ha)
64.	Turmeric	61	549	09(t/ha)
65.	Garlic	201	1608	8(t/ha)
66.	Dry chillies	230	230	1(t/ha)
67.	Coriander	599	2396	04(t/ha)

68.	Fenugreek	149	447	03(t/ha)
69.	Other spice crops	133	798	06(t/ha)
	Plantation crops			
70.	Coconut	283	14.72 lakh nuts	0.05 lakh nuts
71.	Betelvine	31	620 lakh leaves	20 lakh leaves
72.	Oil palm	522	-	-
73.	Other garden / plantation crops	586	768	1.31
	Flower crops			
74.	Aster	06	03	0.5(t/ha)
75.	Crossandra	02	02	1(t/ha)
76.	Marigold	152	1520	10(t/ha)
77.	Jasmine	63	441	07(t/ha)
78.	Chrysanthemum	58	348	06(t/ha)
79.	Tuberose	47	150	03(t/ha)
80.	Marigold	61	610	10(t/ha)
81.	Tuberose	34	340	10(t/ha)
82.	Rose (Lakh flowers)	31	66	02(t/ha)
	Medicinal and Aromatic plants			
83.	Medicinal plants	57	171	03(t/ha)
84.	Lemon grass	24	168	07(t/ha)
85.	Other Aromatic plants	45	135	03(t/ha)

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)	
		Maximum	Minimum	AM (%)	PM(%)
January 2019	0.0	30.5	12.1	64	27
February 2019	0.0	33.7	16.4	56	25
March 2019	0.0	37.6	19.8	49	20
April, 2019	46.2	39.7	23.5	56	19
May, 2019	34.6	40.5	24.4	64	19
June, 2019	92.6	35.1	23.0	82	45
July, 2019	44.1	31.6	22.3	85	56
August, 2019	38.8	30.7	21.6	87	61
September, 2019	131.1	30.6	21.4	90	58
October, 2019	165.9	29.3	20.9	92	65
November, 2019	16.5	29.6	17.8	89	50
December, 2019	7.0	29.4	16.0	89	47
Total	576.8				

* Agro Meterolocial Station, RARS. Vijayapur

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	1203	1600 tons milk	4.34 lit/day /animal
<i>Indigenous</i>	278582	40,000 tons milk	1.52 lit/ day /animal
Buffalo	191438	59,000 tons milk	1.60 lit/ day /animal
Sheep			
<i>Crossbred</i>	336015	75 tones meat	18kg mutton /animal
<i>Indigenous</i>	451980	80 tones meat	16 kg chevon /animal
Goats			
Pigs	32	NA	6 kg/ animal
<i>Crossbred</i>	27114	NA	6 kg/ animal
<i>Indigenous</i>	600	NA	
Rabbits	346372	-	-
Poultry			
Hens	36400	86 lakh eggs	238 eggs/bird
<i>Desi</i>	-	-	-
<i>Improved</i>	-	-	-
Ducks			
Turkey and others			
Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

* Source: Cattle census report 2011-12

District profile maintained in the KVK has been **Updated** for 2019: **Yes** / No

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
	Indi- Block	Indi	Dhulkhed, Baragudi, Loni B.K.	2018-19	Sugarcane- 800 ha Redgram -600 ha Chickpea - 400 ha Sorghum - 100 ha Maize -2786 ha Wheat -3279 ha Groundnut -600 ha Onion - 300 ha Lime - 300ha Chilli -20ha Grape - 50 ha Watermelon -10ha Tomato -20ha	<ul style="list-style-type: none"> • Sugarcane: Closure spacing, Irrigation through flooding, weeds, red rot, smut, root grub, wooly aphid infestation and higher cost of production. • Red gram :Lack of high yielding and wilt tolerant/resistant variety, Pod borer , pod fly , wilt and SMD • Chickpea: Non availability of high yielding wilt tolerant varieties and pod borer menace • Sorghum: Moisture stress, lodging, low yielding varieties and weed problem • Maize: Fall army worm, Non application of micronutrients. • Wheat :Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight • Groundnut: Non availability of high yielding varieties, improper pod filling, sucking pests leaf miner and tikka disease • Onion:Low yield due to local varieties, purple blotch,thrips incidence and rotting • Lime: Canker, Gummosis, wilt and sucking pest, Non-application of micronutrients, less fruits in summer, Unaware of value addition, branding and market. • Chilli :Incidence of murda complex and root knot nematode, powdery mildew, unaware of high yielding public hybrids • Grapes: Stem borer, DM, non-application of micronutrients and mummification, • Watermelon: Flower drop and fruit cracking, Low TSS, Sucking pests. • Tomato:Non adoption of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt 	Group meeting Training FLD & Field day

				Livestock		<ul style="list-style-type: none"> • Lack of fodder resources • Low conception rate • Low milk yield • Mastitis • Low body weight gain in small ruminants • Scarcity of fodder during summer • High cost for kids • Lack of knowledge on silage and dry fodder enrichment 	Group meeting Training FLD & Field day
2.	Sindagi-Block	Sindagi	Mulasavalagi, Hachayal	2018-19	<p>Sorghum -300ha Maize - 200 ha Red gram - 500 ha Wheat - 100 ha Chickpea - 400 ha Cotton - 500ha Ground nut – 25 ha Onion -250ha Lime - 40 ha Pomegranate - 10 ha Grape - 08 ha Vegetables - 40 ha (Cluster bean,Chilli, Tomato, Okra)</p>	<ul style="list-style-type: none"> • Maize: Fall army worm incidence, Non application of micronutrients • Red gram :Lack of high yielding and wilt resistant variety, Pod borer , pod fly , Wilt and SMD • Wheat :Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight • Chickpea: Non availability of high yielding wilt tolerant varieties and pod borer menace • Cotton :Leaf reddening, pink boll worm, sucking pest • Groundnut: Non-availability of high yielding varieties, Improper pod filling, sucking pests Leaf miner and Tikka disease • Onion: Non- availability of improved variety and low yield due to local varieties, purple blotch and thrips incidence and rotting • Lime: Canker, Gummosis, wilt and sucking pest, Non application of micronutrients less fruits in summer, Unaware of value addition, branding and market in Lime. • Pomegranate: Bacterial Blight, Wilt and fruit sucking moth • Grape :Non application of micronutrients, mummification, Stem borer, powdery mildew and downy mildew • Chilli: Incidence of murda complex and root knot nematode, powdery mildew, Lack of high yielding public hybrids. • Tomato: Non adoption of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt 	Group meeting Training FLD & Field day
					Livestock	<ul style="list-style-type: none"> • Low milk yield • Low body weight gain in small ruminants • Scarcity of fodder during summer • Lack of knowledge on silage and dry fodder enrichment • Lack of awareness on composite fish farming in storage ponds • Lower yield in fish farming 	Group meeting Training FLD & Field day

2.9 Details of Benchmark Information collected from DFI villages

Sl.No.	Taluk	Name of the block	Name of the village	Name of the Head of Household	Annual Gross Income (Rs.)	Annual Expenditure (Rs.)	Annual Net Income (Rs.)
1	Chadchan	Manankalgi	Manankalgi	Saipan Lalsab Nadaf	816000	720000	96,000
2	Chadchan	Manankalgi	Manankalgi	Shreeshail siddaram yadvad	3,60,000	2,60,400	99,600
3	Chadchan	Manankalgi	Manankalgi	Dyamgonda revappa talwad	3,12,000	2,10,000	1,02,000
4	Chadchan	Manankalgi	Manankalgi	Santhosh kampanagi	1,56,000	2,52,000	96,000
5	Chadchan	Manankalgi	Manankalgi	Santhosh koli	1000000	850000	1,50,000
6	Chadchan	Manankalgi	Manankalgi	Hanumantharaiah patil	400000	350000	50,000
7	Chadchan	Manankalgi	Manankalgi	Eranna dyamanna samagar	450000	192000	2,58,000
8	Chadchan	Manankalgi	Manankalgi	Paramesh	600000	348000	2,52,000
9	Chadchan	Manankalgi	Manankalgi	Tammaraaya	700000	396000	3,04,000
10	Chadchan	Manankalgi	Manankalgi	Godappa sayappa ponnalli	350000	300000	50,000
11	Chadchan	Manankalgi	Manankalgi	Kashinath jangalagi	120000	60000	60,000
12	Chadchan	Manankalgi	Manankalgi	Siddappa y	240000	22000	20,000
13	Chadchan	Manankalgi	Manankalgi	Vijaya kumar	250000	240000	10,000
14	Chadchan	Manankalgi	Manankalgi	Eranna beli	700000	300000	4,00,000
15	Chadchan	Manankalgi	Manankalgi	Appasaheba biradar	720000	360000	3,60,000
16	Chadchan	Manankalgi	Manankalgi	Damagouda methri	800000	650000	1,50,000
17	Chadchan	Manankalgi	Manankalgi	Sanjeeva belli	1200000	540000	6,60,000

18	Chadchan	Manankalgi	Manankalgi	Shivkumar srimanta odagi	360000	120000	2,40,000
19	Chadchan	Manankalgi	Manankalgi	Shantappa jadagi	1200000	660000	5,40,000
20	Chadchan	Manankalgi	Manankalgi	Gurusiddaiah D Matha	370000	186000	1,84,000
21	Chadchan	Manankalgi	Manankalgi	Santosh S methri	1272000	120000	72,000
22	Chadchan	Manankalgi	Manankalgi	Dundappa bhairshetty	1272000	1000000	2,72,000
23	Chadchan	Manankalgi	Manankalgi	Eranna M Methri	768000	552000	2,16,000
24	Chadchan	Manankalgi	Manankalgi	Pandit E Methri	840000	600000	2,40,000
25	Chadchan	Manankalgi	Manankalgi	Imamsaab	729000	620000	1,09,000
26	Chadchan	Manankalgi	Manankalgi	Hanumantha methri	450000	420000	20,000
27	Chadchan	Manankalgi	Manankalgi	Mallikarjun jamagoud	1560000	1100000	4,60,000
28	Chadchan	Manankalgi	Manankalgi	Ramesh layappa padkar	250000	228000	22,000
29	Chadchan	Manankalgi	Manankalgi	Paramananda koli	1900000	1450000	4,50,000
30	Chadchan	Manankalgi	Manankalgi	Mahadev devaraya	1080000	600000	4,80,000
31	Sindagi	Navadagi	Navadagi	Suryakanth S Patil	1,50,000	22,000	1,28,000
32	Sindagi	Navadagi	Navadagi	AravindPatil	2,25,000	1,00,000	1,25,000
33	Sindagi	Navadagi	Navadagi	SathishRamachandraBiradar	8,00,000	3,00,000	5,00,000
34	Sindagi	Navadagi	Navadagi	Shantappa M Biradar	6,00,000	2,00,000	4,00,000
35	Sindagi	Navadagi	Navadagi	Honnappa D Moratagi	10,00,000	3,50,000	6,50,000
36	Sindagi	Navadagi	Navadagi	Kashinath S Biradar	4,50,000	2,00,000	2,50,000

37	Sindagi	Navadagi	Navadagi	Mallappa S Biradar	1,50,000	70,000	80,000
38	Sindagi	Navadagi	Navadagi	Chidanand S Hiremath	2,50,000	80,000	1,70,000
39	Sindagi	Navadagi	Navadagi	Shankargouda Biradar	16,00,000	6,00,000	10,00,000
40	Sindagi	Navadagi	Navadagi	Bheemrai Gurappa Chimalgi	4,00,000	1,50,000	2,50,000
41	Sindagi	Navadagi	Navadagi	Honnappa K Biradar	8,00,000	3,50,000	4,50,000
42	Sindagi	Navadagi	Navadagi	Yamanagouda S Biradar	2,50,000	1,20,000	1,30,000
43	Sindagi	Navadagi	Navadagi	Shamrai Biradar	2,00,000	1,10,000	90,000
44	Sindagi	Navadagi	Navadagi	Hanamanthrai S Biradar	11,50,000	5,00,000	6,50,000
45	Sindagi	Navadagi	Navadagi	Shankarappa B Biradar	3,00,000	1,00,000	2,00,000
46	Sindagi	Navadagi	Navadagi	Gurushatayaa Hiremath	60,000	30,000	30,000
47	Sindagi	Navadagi	Navadagi	Ningappa Biradar	2,50,000	80,000	1,70,000
48	Sindagi	Navadagi	Navadagi	Linganna S Biradar	6,00,000	2,50,000	3,50,000
49	Sindagi	Navadagi	Navadagi	Chandrakanth B Patil	2,50,000	1,20,000	1,30,000
50	Sindagi	Navadagi	Navadagi	Siddhramaya S Biradar	8,00,000	2,50,000	5,50,000
51	Sindagi	Navadagi	Navadagi	Revappa S Biradar	1,50,000	75,000	75,000
52	Sindagi	Navadagi	Navadagi	Gurappa Y Biradar	1,50,000	50,000	1,00,000
53	Sindagi	Navadagi	Navadagi	Shivasharan S Biradar	5,00,000	2,50,000	2,50,000
54	Sindagi	Navadagi	Navadagi	Shamrai S Biradar	3,00,000	1,00,000	2,00,000
55	Sindagi	Navadagi	Navadagi	Kallappagouda S Biradar	2,00,000	80,000	1,20,000

56	Sindagi	Navadagi	Navadagi	Siddappa H Harijan	3,00,000	1,20,000	1,80,000
57	Sindagi	Navadagi	Navadagi	Bheemrai R Harijan	1,60,000	72,000	88,000
58	Sindagi	Navadagi	Navadagi	ShrishailS Biradar	2,30,000	85,000	1,45,000
59	Sindagi	Navadagi	Navadagi	Shivanand H Moratagi	6,00,000	2,40,000	3,60,000
60	Sindagi	Navadagi	Navadagi	ShrishailV Biradar	4,00,000	1,60,000	2,40,000
61	Indi	Bairunagi	Bairunagi	BasappaChennappaKolar	3,60,000	2,40,000	1,20,000
62	Indi	Bairunagi	Bairunagi	Shantahabai y dareshawara	3,80,000	1,70,000	2,10,000
63	Indi	Bairunagi	Bairunagi	NimbayyaErayyaHiremata	2, 40,000	1,30,000	1,10,000
64	Indi	Bairunagi	Bairunagi	YallappaPujari	2, 30,000	90,000	1,60,000
65	Indi	Bairunagi	Bairunagi	NagappaNanadappaPujari	12,00,000	5,00,000	7,00,000
66	Indi	Bairunagi	Bairunagi	Ramesh Patil	5,64,000	3,00,000	2,64,000
67	Indi	Bairunagi	Bairunagi	Basavaraj E Patil	3,20,000	1,80,000	1,40,000
68	Indi	Bairunagi	Bairunagi	MallikarjunBidri	7,20,000	3,20,000	4,00,000
69	Indi	Bairunagi	Bairunagi	ApparayaPatil	8,25,000	3,35,000	4,90,000
70	Indi	Bairunagi	Bairunagi	SiddappaAshaPujari	9,55,000	3,95,000	5,60,000
71	Indi	Bairunagi	Bairunagi	NanagoudaSanganagoudaPatil	14,40,000	8,00,000	6,40,000
72	Indi	Bairunagi	Bairunagi	SomananthPujari	3,20,000	1,20,000	2,00,000
73	Indi	Bairunagi	Bairunagi	BeerappaBdri	4,80,000	1,80,000	3,00,000

74	Indi	Bairunagi	Bairunagi	VittalHnumantha	3,50,000	1, 90,000	1,60,000
75	Indi	Bairunagi	Bairunagi	DanayyaAnnayyaErepur	9,96,000	3,00,000	6,96,000
76	Indi	Bairunagi	Bairunagi	JayavanthaPitambarJadav	10,00,000	3,00,000	7,00,000
77	Indi	Bairunagi	Bairunagi	VittobaKumbar	8,00,000	6,00,000	2,00,000
78	Indi	Bairunagi	Bairunagi	Sunil Basavarajshetti	7,30,000	2,30,000	5,00,000
79	Indi	Bairunagi	Bairunagi	AnanataNavi	17,70,000	7,00,000	10,70,000
80	Indi	Bairunagi	Bairunagi	Siddaraya Gouda Patil	6,00,000	2,00,000	4,00,000
81	Indi	Bairunagi	Bairunagi	Annaraya	8,64,000	5,64,000	3,00,000
82	Indi	Bairunagi	Bairunagi	Nabira Sab aslam sab shek	1,50,000	60,000	90,000
83	Indi	Bairunagi	Bairunagi	SanthoshMallikajunBiradar	4,20,000	1,80,000	2,40,000
84	Indi	Bairunagi	Bairunagi	ErannaBhimShekarBidri	12,00,000	6,00,000	6,00,000
85	Indi	Bairunagi	Bairunagi	ShivkumarBhosale	16,00,000	9,00,000	7,00,000
86	Indi	Bairunagi	Bairunagi	SubashLaxmanBhosale	8,00,000	2,50,000	5,50,000
87	Indi	Bairunagi	Bairunagi	BalchandraMallappaGundadas	6,00,000	2,50,000	3,50,000
88	Indi	Bairunagi	Bairunagi	BeerappaYallappa	4,80,000	2,80,000	2,00,000
89	Indi	Bairunagi	Bairunagi	Malasiddegouda	9,20,000	4,20,000	5,00,000
90	Indi	Bairunagi	Bairunagi	Amsidda gouda patil	3,60,000	1,60,000	2,00,000

2.10 Priority thrust areas

S. No	Thrust area
1.	Maize :Fall army worm, Non application of micronutrients
2.	Fodder crop : Scarcity of fodder and low milk yield
3.	Rabi Sorghum : Low yield and moisture stress at maturity stage
4.	Pigeon pea :Low yielding varieties, wilt and pod borer , podfly and webber.
5.	Chickpea : Non availability of high yielding wilt/dry root rot tolerant varieties and pod borer menace
6.	Dicoccum wheat : Low yielding varieties, lodging, leaf blight and rust
7.	Wheat :Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight
8.	Groundnut : Lack of use of bio- fertilisers, Delay maturity due to S deficiency, Ca deficiency causes groundnut pegs and pods to abort and reduced yield, sucking pests Leaf miner and Tikka disease
9.	Cotton : Leaf reddening, pink boll worm, sucking pest& lack of knowledge about foliar nutrition
10.	Chilli : Low yield, inferior quality, local variety / private hybrids, pest and disease incidence
11.	Tomato : Non adoption of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt
12.	Onion : Non availability of improved variety, Low yield due to local varieties, purple blotch, thrips incidence and rotting
13.	Watermelon : Flowering and fruit set is poor due to deficiency of Boron in cucurbitaceous, yield, quality of fruit is less.
14.	Lime : Canker, Gummosis, wilt and sucking pest, Non application of micronutrients less fruits in summer, Unaware of value addition, branding and market in Lime
15.	Pomegranate : Bacterial blight, wilt, sucking pest, unaware of grading and processing
16.	Grape : Non application of micronutrients, mummification, Stem borer powdery mildew and downy mildew

PART III - TECHNICAL ACHIEVEMENTS (2019)**3.A. Target and Achievements of mandatory activities**

OFT				FLD			
1				2			
OFTs (No.)		Farmers (No.)		FLDs (No.)		Farmers (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
06	06	55	55	20	20	147	147

Training				Extension Programmes			
3				4			
Courses (No.)		Participants (No.)		Programmes (No.)		Participants (No.)	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
48	39	1300	1071	980	730	95000	81914

Seed Production (Q)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
90	41.65		

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

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
1	ICM	Chilli	Low yield, inferior quality, private hybrid, incidence of Murda complex	Assessment of Chilli hybrids for yield potential and disease resistance		01	01		Field visit: 05	50g 2kg			No.	Kg
2	IDM	Rabi sorghum	Charcoal rot	Assessment of Charcoal rot tolerant Sorghum varieties	-	01	-	-	Field visit: 02	75 kg	-	-	-	-
3	ICM	Ground nut	Low yielding varieties	Assessment of ground nut varieties during summer	-	01	-	-	Field visit: 04	200kg	-	-	-	-
4	Feed and Fodder management	Livestock	Low milk Yield, Lack of knowledge on fodder variety	Assessment of fodder variety (Co-5)	-	01	-	-	Field day: 01 Field visit: 06	Co-5 and DHN-6 stem cuttings	-	-	-	-
5	Nutrition quality	Vitamin C rich foods		Assessment of Vit c rich foods to combat vit C deficiencies among farm women / children	-	01	-	-	School visit: 02		-	-		
6	ICM	Onion	<ul style="list-style-type: none"> Non-application of sulphur 15-20 % of storage losses 	Assessment of sulphur application in onion		01			Field visit: 06 Field day :01				-Sulphur	- 12.5
													Azospirillum	kg 1

													Azotabactor	kg
													PSB	2 kg
7	ICM	Tomato	Non adoption of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt		Tomato hybrid ArkaSamrat	01	-	-	Field visit: : 04					
8	ICM	Onion	Non availability of improved variety and Low yield due to local and private varieties		Onion variety Bhima Super during Kharif	01		-	01 Field day Field visit: 06	20 kg				
9	ICM	Onion	Non availability of season specific variety, Low yield and thrips incidence.		Onion variety Bhima Shakti during Rabi	01		-	Field visit: 04	10 kg				
10	ICM	Lime	Flower regulation and Micronutrient, pest and disease management		ICM in Lime	01	-	01	Field day : 01 Field visit: 06	30 kg citrus special				
11	IDM	Pomegranate	Bacterial blight, wilt and thrips incidence		IDM inPomegranate	01	-	01	Field visit: 05	-				
12	ICM	Grape	Micro nutrient deficiency and Stem borer		Arka Grape special in grape	01	-	-	Field visit:03	30 kg Arka grape special				
13	ICM and IDM	Wheat	Low yielding varieties and rust		Wheat variety UAS-334	01	-	-	Field visit : 05	300 kg	-	-	-	-

14	ICM and IDM	Dicoccum Wheat	Low yielding varieties, lodging, leaf blight and rust		ICM in Dicoccum Wheat and value addition	01	-	-	Field visit : 05	150 kg				
15	INM	Maize	Deficiency of micronutrients		Micronutrient management in maize	01	-	-	Field visit : 08	--				
16	ICM	Rabi sorghum	Low yield and moisture stress at maturity stages		ICM in Rabi sorghum	01	-	-		BJV-44 60 kg				
17	ICM	Chickpea	Wilt and dry root rot susceptible variety, incidence of pod borer & drudgery		ICM in Chickpea and value addition	01	-	-	Field day : 02 Field visit: 8					
18	INM	Groundnut	<ul style="list-style-type: none"> •Non availability of high yielding varieties •Delay maturity due to deficiency, •Ca deficiency causes groundnut pegs and pods to abort and reduced yield 		ICM in Groundnut and value addition	01	-	-	Field visit: 8	--	-	-	-	-
19	INM	Watermelon	Flowering and fruit set is poor due to deficiency of Boron in melons, yield, quality of fruit is less.		Management of boron deficiency in watermelon	-	-	-	Field visit: 10	-	-	-	-	-
20	Feed and Fodder management	Livestock	Low milk yield, lack of balanced green fodder		Perennial supply of green fodder model	01	-	-	-	Co-5 stem cuttings, Lucerne, CoFs-31	-	-	-	-

21	Feed and Fodder management	Fodder	Scarcity of fodder, Lack of knowledge on green fodder variety		Demonstration on green fodder supply model	01			Field Visit 05					
22	Feed and Fodder management	Silage	Low milk yield, Scarcity of fodder during summer, Lack of knowledge on silage		Demonstration on preservation of green fodder in the form of silage using silo bag	01			Field Visit 05					
23	IDM	Chilli	High incidence of murda complex with low yield and inferior quality, incidence of powdery mildew and anthracnose		Management of Chilli Murda Complex	01			Field Visit 05					
24	INM	Cotton	Leaf reddening, pink bollworm and sucking pests incidence, lack of knowledge about foliar nutrition		Management of leaf reddening and pink bollworm cotton	01	-	-	Field Visit 05					
25	IDM	Maize	Incidence of fall army worm, 60-75% crop damages		Management of Fall Armyworm in Maize	01			Field Visit 06					
26	Value addition	Foxtail Millet	Low income realization due to lack of knowledge on processing, value addition, labeling, packaging and branding		Foxtail millet variety DHFT-109-3 processing and value addition for health mix	01	01		Field Visit 05 Field day 02	Seeds, Azospirillum & PSB, Sealing machine, Weighing scale Packagings	-	-	-	-

27	Varietal Introduction	Pigeonpea	Low yielding varieties, wilt and dry root rot susceptible variety and incidence of pod borer and podfly		Demonstration of TS-4R and GRG-811 in Pigeonpea	01	01		Field Visit 06 Field day 01	5 Kg			Biofertilizer	1 Kg
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3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
1.	Assessment of Charcoal rot tolerant Sorghum varieties	UAS, Dharwad	Sorghum	OFT	-	1	
2.	Assessment of ground nut varieties during summer	UAS, Dharwad	Ground nut	OFT	-	1	
3.	Assessment of fodder variety Co-5	IGFRI, Dharwad	Fodder	OFT	-	0	Field Day
4.	Assessment of Vit c rich foods to combat vit C deficiencies among farm women / children	UAS, Dharwad	Vitamin C rich foods	OFT	-	0	Training
5.	Assessment of Chilli hybrids for yield potential and disease resistance	IIHR, Bangalore	Chilli	OFT	-	03	Training
6.	Assessment of Sulphur application in onion	DOGR, Pune and NHRDF, Nasik	Onion	OFT	-	03	Training
7.	Wheat variety UAS-334	UAS, Dharwad	Wheat	-	FLD	1	Training
8.	ICM in Dicoccum Wheat and value addition	UAS, Dharwad	Dicoccum Wheat	-	FLD	1	Training
9.	Micronutrient management in maize	UAS, Dharwad	Maize	-	FLD	0	Training
10.	ICM in Rabi sorghum	UAS, Dharwad	Rabi Sorghum	-	FLD	1	Training
11.	ICM in Chickpea and value addition	UAS, Dharwad	Chick pea	-	FLD	1	Field Day
12.	ICM in Groundnut and value addition	UAS, Dharwad	Ground nut	-	FLD	0	Training
13.	Management of boron deficiency in watermelon	IIHR, Bengaluru	Watermelon	-	FLD	0	
14.	Onion variety Bhima Shakti during Rabi	DOGR, Rajgurunagar	Onion	-	FLD	0	Training
15.	ICM in Lime	UAS, Dharwad	Lime	-	FLD	2	Field Day
16.	IDM inPomegranate	UAS, Dharwad	Pomegranate	-	FLD	1	Training
17.	Arka Grape special in grape	IIHR, Bengaluru	Grape	-	FLD	1	Training
18.	Perennial green fodder supply model	TNAU, Coimbatore	Fodder	-	FLD	1	Field Day
19.	Tomato hybrid arkaSamrat	IIHR, Bengaluru	Tomato	-	FLD	0	Field Day
20.	Onion variety Bhima Super during Kharif	DOGR, Rajgurunagar	Onion	-	FLD	0	Field Day
21.	Management of leaf reddening and pink bollworm cotton	UAS, Dharwad	Cotton		FLD	1	Training
22	Management of fallarmy wrom in Maize	UAS, Dharwad	Maize	-	FLD	1	Training

23	Management of chilli mruda complex	IIHR, Bangalore	Chilli	-	FLD	1	Training
24	Foxtail millet variety DHFt-109-3processing and value addition for health mix	UAS, Dharwad UAS, Dharwad	Foxtail millet	-	FLD	1	Training
25	Demonstration on preservation of green fodder in the form of silage using silo bags	KVAFSU, Bidar	Fodder (Silage)	-	FLD	1	Training
26	Demonstration of TS-3R and GRG-811 in Pigeonpea	UAS,Dharwad and UAS Raichur	Pigeonpea	-	FLD	1	Training

3.B2 contd..

	No. of farmers covered															
	OFT				FLD				Training				Others (Specify)			
	General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1.	05	0	0	0	0	0	0	14	0	0	0	0	0	0	0	
2.	05	0	0	0	0	0	0	18	0	0	0	0	0	0	0	
3.	07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4.	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5.	03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6.	03	0	0	0	0	0	0	25	3	0	0	0	0	2	1	
7.	0	0	0	0	10	0	0	15	0	0	0	0	0	0	0	
8.	0	0	0	0	05	0	0	15	0	0	0	0	0	0	0	
9.	0	0	0	0	07	0	0	0	0	0	0	0	0	0	0	
10.	0	0	0	0	20	0	0	30	0	0	0	0	0	0	0	
11.	0	0	0	0	05	0	0	30	0	0	0	65	0	0	0	
12.	0	0	0	0	05	0	0	0	0	0	0	0	0	0	0	
13.	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	
14.	0	0	0	0	05	0	0	0	0	0	0	0	0	0	0	
15.	0	0	0	0	05	0	0	29	0	0	0	25	0	0	0	
16.	0	0	0	0	10	0	0	29	0	0	0	0	0	0	0	
17.	0	0	0	0	05	0	0	21	0	0	0	0	0	0	0	
18.	0	0	0	0	05	0	0	18	0	0	0	42	0	0	0	
19.	0	0	0	0	10	0	0	0	0	0	0	24	0	0	0	
20.	0	0	0	0	05	0	0	0	0	0	0	26	0	0	0	
21.	0	0	0	0	5	0	0	27	0	4	0	1	1	0	1	
22.	0	0	0	0	5	0	0	15	0	2	0	1	1	1	1	
23.	0	0	0	0	4	0	1	12	4	2	1	1	2	1	1	
24.	0	0	0	0	8	1	1	15	2	1	1	1	1	1	1	
25.	0	0	0	0	3	0	2	18	2	1	2	1	1	1	1	

26.	0	0	0	0	4	0	1	0	22	2	1	1	1	1	1	1
27.	0	0	0	0	4	1	0	0	15	2	1	0	0	0	0	0

PART IV - On Farm Trial(2019)

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management	01	01	01	-	02	-				05
Varietal Evaluation	-	-	-	-	01	-				01
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	-	-	-	-	-	1				
Value addition	-	-	-	-	-	-				
Drudgery Reduction	-	-	-	-	-	-				
Storage Technique	-	-	-	-	-	-				
Mushroom cultivation	-	-	-	-	-	-				
Total	01	01	01	-	03	1				06

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

Thematic areas	Cattle	Poultry	Piggery	Rabbit	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder	01					01
Small Scale income generating enterprises						
TOTAL	01					01

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

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

4.B. Achievements on technologies Assessed and Refined

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management Varietal Evaluation	Onion	Assessment of sulphur application in onion	03	03	1.2 ha
	Groundnut	Assessment of high yielding varieties of Groundnut during summer	07	07	1.4 ha
	Chilli	Assessment of Chilli hybrids for yield potential and disease resistance	07	07	2.8 ha
	Sorghum	Assessment of Charcoal rot tolerant Sorghum varieties	05	05	02 ha
	Chilli	Assessment of Chilli hybrids for yield potential and disease resistance	03	03	1.2 ha
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		Nutritional management	Assessment of Vitamin C supplementation foods for children	30	30

Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					5.8ha

4.B.2. Technologies Refined under various Crops

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

Storage Technique					
Mushroom cultivation					
Total					

4.B.3. Technologies assessed under Livestock and other enterprises

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds	-	-	-	-
Nutrition management	-	-	-	-
Disease management	-	-	-	-
Value addition	-	-	-	-
Production and management	-	-	-	-
Feed and fodder	Cows	Assessment of fodder variety (CO-5)	05	05
Small scale income generating enterprises	-	-	-	-
Total			05	05

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

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

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observation s 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
Ground nut (Rabi 2019)	Irrigated	Lack of high yielding varieties	Assessment of high yielding varieties of Groundnut during summer	07	T.O.1 (Farmers practice)//RPP : G2-52	UAS, Dharwad	17.86	q/ha	Days to maturity, No of pods per plant, Shelling percent	53,426	2.23:1	
					TO2:AP :K-9	UAS, Raichur	16.03	q/ha	-do-	44,106	2.12:1	
					T.O.3 =GKVK-5	UAS, Bengaluru	15.24	q/ha	-do-	39,928	2.02:1	
Chilli (Kharif 2019)	Irrigated	Low yield, inferior quality, private hybrids, pest and disease incidence	Assessment of Chilli hybrids for yield potential and disease resistance	03	T.O.1 (Farmers practice): Jwala		26.50	t/ha	Weight of 10 green fruits (g), Fruit length (cm), No. of fruits / plant, Pungency, PDI (%):	291316	126683	1.77 2.40 2.78
					TO.2: ArkaMeghana	IIHR, B	29.08	/ha	-do-	349000	203500	
					TO.3: ArkaKhyati	IIHR,B	32.42	t/ha	-do-	405208	259708	
Sorghum (Rabi 2019)	Rainfed	Charcoal rot disease	Charcoal rot in sorghum	05	TO 1: M35-1		7.46	q/ha	Charcoal rot incidence (%)	17,556	2.89:1	
					TO 2:BJV-44	UAS, Dharwad	9.83		-do-	25,868	3.68:1	
					TO 3:GS-23	UAS, Raichur	8.73		-do-	21,818	3.27:1	
					TO 4:PhuleSuchitra		8.23		-do-	19,778	3.01:1	
Livestock	Irrigation	Low milk	Assessment of	05	T.O.1 :(Farmers		27.60	t/ha/	Milk Yield	21600	3.60:1	

(Rabi 2019)		yield, Lack of knowledge on fodder variety	fodder variety (Co-5)		practice)			harvest	(lbs.)			
					TO 2 : Cultivation of C0-5	TNAU, Coimbatore	36.30	t/ha/ harvest	-do-	29300	4.19:1	
					TO 3 :Cultivation of DHN-6	IGFRI, Dharwad	30.20	t/ha/ harvest	-do-	23200	3.31:1	
Nutrition management(Rabi 2019)	-	Vitamin C deficiency in Children	Assessment of Vitamin C supplementati on foods for children	30	T1: Amla supplementation @ 20g /day/head	-	-	-	-	-	-	Vitamin C based intervention are helpful in preventing vitamin C deficiency especially in children.
					T2:Guava supplementation @ 50g /day/head	-	-	-	-	-		
					T3: lime juice supplementation	-	-	-	-	-		
Onion	Irrigated	<ul style="list-style-type: none"> • Non-application of sulphur • 15-20 % of storage losses 	Assessment of sulphur application in onion	03	T.O.1 :Farmers practice		18.20	t/ha	Soil test before and after application (including sulphur), fresh weight of onion (g), dry weight of onion (g) , bulb diameter (cm), yield (q/ha), shelf life (days) and B:C ratio	461090	410543	9.13
					TO.2: NPKS :	DOGR,	19.27			491150	444650	10.56

					110:40:60:20 kg / ha and Azospirillum and PSB @ 5 kg each/ha	Pune		t/ha	-do-			
					TO.3: NPKS @ 100:50:50:30 kg/ha and Azotobactor and PSB @ 5 kg each/ha	NHRDF, Nasik	20.43	t/ha	-do-	537517	490269	11.38

OFT: Supplementation of Vit C rich foods to combat Vit 'C' deficiencies among Children

Table 1: Efficacy of supplementation on the average daily nutrient intake of selected school children

Nutrients	RDA*	Experimental group (n=30)			
		Before	% adequacy	After	% adequacy
Energy (Kcal)	1690	1309.55 ± 54.19	77.48	1533.24 ± 65.79	89.19
Protein (g)	29.5	29.99 ± 3.79	101.68	33.12 ± 3.38	112.28
Fat (g)	30	35.28 ± 3.28	117.61	45.29 ± 4.65	150.97
Calcium (mg)	600	360.35 ± 69.62	60.06	490.69 ± 75.54	81.19
Iron (mg)	16	9.73 ± 1.14	60.80	16.4 ± 0.98	71.25
Zinc (mg)	8	3.19 ± 0.69	39.98	3.75 ± 0.65	46.99
Retinol (µg)	600	308.64 ± 92.56	51.44	343.91 ± 72.99	57.32
Thiamine(mg)	0.8	0.66 ± 0.21	82.75	0.80 ± 0.22	100.17
Riboflavin(mg)	1.0	0.53 ± 0.09	53.23	0.68 ± 0.09	68.27
Niacin (mg)	13	7.07 ± 1.34	54.40	8.86 ± 1.25	68.19
Folic acid (µg)	120	117.99 ± 14.32	98.33	126.22 ± 8.98	105.18
Vitamin B₁₂ (µg)	0.2-1.0	0.24 ± 0.18	40.72	0.25 ± 0.19	42.22
Ascorbic acid (mg)	40	33.03 ± 11.56	91.59	48.88 ± 9.68	111.22

Mean per cent adequacy of Nutrient intake among children before and after intervention presented in Table 1. The mean Ascorbic acid intake ranged from 91.59 mg in the children before the intervention. There was lower intake of ascorbic acid, iron, energy and ascorbic acid were reported as indicated by per cent adequacy in children. However, after the intervention, the intake of same nutrient intake was increased to 111.22 mg, 71.25 mg and 89 kcl respectively. This shows a positive impact of vitamin C supplementation intervention on the nutrient intake among children.

4.D.2. Details of Technologies refined:

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

PART V - FRONTLINE DEMONSTRATIONS (2019)

5.A. Summary of FLDs implemented

Sl. No	Category	Farming Situation	Season	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		Farmers (No.)		Farmers (No.)	
									Proposed	Actual	SC/ ST	Others	Small/ Marginal	Others
1	Oilseeds													
		Irrigated	Summer	Summer groundnut	G2-52		ICM in Groundnut and value addition	ICM in Groundnut and value addition	2.0	2.0	2	3	2	3
2	Pulses													
				Pigeon pea			ICM	Demonstration of TS-3R & GRG-81 in pigeon pea	2.0	2.0				
		Irrigated	Rabi	Chickpea	JG-11		ICM in Chickpea and value addition	ICM in Chickpea value addition	2.0	2.0	2	3	5	-
							Drugery reduction	Demonstration of Protective Clothing for harvesting of Bengalgram			2	3	5	-
3	Cereals													
		Rainfed	Rabi	Rabi Sorghum	BGV-44		ICM in Rabi sorghum	Bio fertilizers (Trichoderma, Azospirillum, PSB)	8.0	8.0	10	10	12	8
		Irrigated	Rabi	Dicoccu wheat	DDK-1029		ICM in Dicoccum Wheat	Dicoccum Wheat DDK-1029, seed treatment with biofertiliser and management of rust.	2.0	2.0	2	3	2	3
		Irrigated	Rabi	Wheat	UAS-334		Crop Production	New variety UAS-334 (Resistant to rust & good quality of chapati)	4.0	4.0	5	5	4	1
		Irrigated	Summer	Maize		Hybrid	Micronutrient management in maize	Each of ZnSO ₄ & FeSO ₄ @ 25kg/ha Vermi compost 50kg/ha	2.8	2.8	2	5	3	4
		Irrigated	Kharif	Maize	-	-	Management of fallarmy worm in maize	Sleeve Traps Emamectin benzoate Metarhiziumanisople a Bacillus thurengensis	2.0	2.0	0	4	1	0
4	Millets	Rainfed	Kharif	Foxtail Millet	DHFt-109-	-	Low income	Seeds, Azospirillum & PSB,						

					3		realization due to lack of knowledge on processing , value addition, labeling, packaging and brandin	Sealing machine, Weighing scale Packaging materials						
5	Vegetables	Irrigated	Kharif	Tomato	-	Arka Samrat	ICM	Demonstration of high yielding, triple disease resistant tomato hybrid – ‘Arka Samrat’	2ha	2ha		5	5	0
		Irrigated	Kharif	Onion	Bhima Super	-	ICM	Demonstration of <i>Kharif</i> onion variety “Bhima Super” for higher yield & income	2ha	2ha		5	5	0
		Irrigated	Kharif	Chilli	-		IDM	Management of chilli murda complex	2ha	2ha		5	5	0
		Irrigated	Kharif	Onion	Bhima Shakti	-	ICM	Demonstration of Bhimashakthi for <i>rabi</i> season	2ha	2ha		5	5	0
6	Flowers													
7	Ornamental													
8	Fruit	Irrigated	Rabi	Lime		Kagzi	ICM	Integrated Crop Management (ICM) in lime Foliar application of citrus special @ 5g/lit and Bahar management (In the	2ha	2ha		5	5	

Cotton	Pheromone traps(30/ha), Soil application of MgSO ₄ @ 25 kg/ha, foliar application of MgSO ₄ @ 1% at 70 and 90 DAS and alternate furrow irrigation. Profenophos 2ml/L within 100 DAS, At 110-130 DAS use of need based pyrethroid insecticide @0.5 ml/ltr. 5% neem oil spray	Bt Cotton		Irrigated	05	02	30.6	26.2	28.4	23.6	20.34	156948	120468	4.30	126894	92456	3.68
Sugarcane																	
Fibre crops like cotton																	
Medicinal and aromatic																	
Fodder																	
	Perennial supply of green fodder model	Co-5, CoFs-31, Lucerne	--	Irrigated	05	05	7.6	5.2	6.40	5.32	20.3	224	147.2	1.91:1	186.2	111.72	1.50:1
	Demonstration of preservation of green fodder in the form of silage using silo bags			Irrigated	05	02	9.3	8.5	9.4	106.95	325.5	218.55	3.04	110.5	255	144.5	2.31
Plantation																	
Fibre																	
Others (pl.specify)																	

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

** BCR= GROSS RETURN/GROSS COST

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

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Bulb weight (Rabi onion)	112.76g	78.24g
Bulb diameter (Rabi onion)	5.2cm	4.67cm

5.B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Name of the parameter with unit	Yield (kg/animal)			% Increase	*Economics of demonstration (Rs./unit)			*Economics of check (Rs./unit)			
						Demo		Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR	
						H	L									A
Dairy																
Poultry																
Rabbitry																
Pigerry																
Sheep and goat																
Duckery																
Others (pl.specify) Fodder	Perennial supply of green fodder model	Crossbred	05	05	Fodder Yield in Kg	7.6	5.2	6.4	5.32	15.0	224	147.2	74.8	186.2	111.72	4.60

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

** BCR= GROSS RETURN/GROSS COST

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

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

5.B.3. Fisheries

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

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5.B.4. Other enterprises

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m ² }	Name of the parameter with unit	Yield			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m ²)			*Economics of check (Rs./unit) or (Rs./m ²)			
						Demo				Check if any	Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
						H	L	A								
Oyster mushroom																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																

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

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

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

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

5.B.5. Farm implements and machinery

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

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

** BCR= GROSS RETURN/GROSS COST

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

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

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	05	142	
2	Farmers Training	39	1071	
3	Media coverage	12	-	
4	Training for extension functionaries	2	30	
5	Others (Please specify)	21	1801	Jal Shakti Abhiyaan

Others (pl.specify)															
Total															
Commercial crops															
Sugarcane															
Coconut															
Others (pl.specify)															
Total															
Fodder crops															
Maize (Fodder)															
Sorghum (Fodder)															
Others (pl.specify)															
Total															

H-High L-Low, A-Average

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

Others (pl.specify) chia cultivation	1	54	1	55	2	0	2	55	2	57
Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated nutrient management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops	1	15	4	19	1	0	1	16	4	20
Nutrient use efficiency										
Balanced use of fertilizers	1	25	3	28	1	2	3	26	5	31
Soil and water testing										
Others (pl.specify)										
Livestock Production and Management										
Dairy Management	1	31	0	31	2	0	2	31	2	33
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Animal Disease Management										
Feed and Fodder technology										
Production of quality animal products										
Others (pl.specify)										
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	25	25	0	4	4	0	29	29

Fish processing and value addition										
Others (pl.specify)										
Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
Mushroom production										
Apiculture										
Others (pl.specify)										
CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
Others (pl.specify)										
Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (Pl. specify)										
TOTAL	17	361	45	406	27	10	37	388	55	443

Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	04	86	20	106	5	2	7	91	22	113

Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	03	61	11	72	4	5	9	67	16	83

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
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	01	0	38	38	0	13	13	0	51	51
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
Total	01	0	38	38	0	13	13	0	51	51

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants											
			General			SC/ST			Grand Total					
			Male	Female	Total	Male	Female	Total	Male	Female	Total			
1	Crop production and management													
1.a.	Increasing production and productivity of crops	01	34	0	35	1	0	1	34	1	36			
1.b.	Commercial production of vegetables													
2	Production and value addition													
2.a.	Fruit Plants													
2.b.	Ornamental plants													
2.c.	Spices crops													
3.	Soil health and fertility management													
4	Production of Inputs at site													
5	Methods of protective cultivation													
6	Others (pl.specify)													
7	Post harvest technology and value addition													
7.a.	Processing and value addition													
7.b.	Others (pl.specify)													
8	Farm machinery													
8.a.	Farm machinery, tools and implements													
8.b.	Others (pl.specify)													
9.	Livestock and fisheries													
10	Livestock production and management													
10.a.	Animal Nutrition Management													
10.b.	Animal Disease Management													
10.c.	Fisheries Nutrition													
10.d.	Fisheries Management													
10.e.	Others (pl.specify)													
11.	Home Science													
11.a.	Household nutritional security													
11.b.	Economic empowerment of women													
11.c.	Drudgery reduction of women													
11.d.	Others (pl.specify)													
12	Agricultural Extension													
12.a.	CapacityBuilding and Group Dynamics													
12.b.	Others (pl.specify)													
	Total													

Details of sponsoring agencies involved

1. Nela Jala NGO Indi

2.

3.

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
1.a.	Commercial floriculture											
1.b.	Commercial fruit production											
1.c.	Commercial vegetable production											
1.d.	Integrated crop management											
1.e.	Organic farming											
1.f.	Others (pl.specify)											
2	Post harvest technology and value addition											
2.a.	Value addition											
2.b.	Others (pl.specify)											
3.	Livestock and fisheries											
3.a.	Dairy farming	01	26	0	26	4	0	4	30	0	30	
3.b.	Composite fish culture											
3.c.	Sheep and goat rearing	01	29	0	29	2	0	2	31	0	31	
3.d.	Piggery											
3.e.	Poultry farming											
3.f.	Others (pl.specify)											
4.	Income generation activities											
4.a.	Vermi-composting											
4.b.	Production of bio-agents, bio-pesticides, bio-fertilizers etc.											
4.c.	Repair and maintenance of farm machinery and implements											
4.d.	Rural Crafts											
4.e.	Seed production											
4.f.	Sericulture											
4.g.	Mushroom cultivation											
4.h.	Nursery, grafting etc.											
4.i.	Tailoring, stitching, embroidery, dying etc.											
4.j.	Agril. para-workers, para-vet training											
4.k.	Others (pl.specify)											
5	Agricultural Extension											
5.a.	Capacity building and group dynamics											
5.b.	Others (pl.specify)											
	Grand Total	02	55	0	55	6	0	6	61	0	61	

PART VIII – EXTENSION ACTIVITIES(2019)**8.1. Extension Programmes (including extension activities undertaken in FLD programmes)**

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	05	86	2	88	1	1	2	4	3	7
Kisan Mela	02	45000	32500	77500	525	252	777	251	12	263
Kisan Ghosthi										
Exhibition	02	253	125	378	25	25	40	10	3	13
Film Show	10	223	48	271	21	13	34	5	2	7
Method Demonstrations	15	282	23	305	18	13	31	15	7	22
Farmers Seminar										
Workshop										
Group meetings	02	43	2	49	1	1	2	8	3	11
Lectures delivered as resource persons	32	895	113	998	27	19	46	7	4	11
Newspaper coverage	10									
Radio talks	05									
TV talks										
Popular articles	14									
Extension Literature										
Advisory Services										
Scientific visit to farmers field	72	62	4	66	3	3	6			
Farmers visit to KVK	521	447	38	485	5	3	8			
Diagnostic visits	35	18	4	22	8	5	13			
Exposure visits	04	198	103	301	12	14	26			
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	01	0	38	38	0	13	13	2	2	4
World breast feeding day										
Any Other (Specify) Independence day, Republic day, Farmer day, World soil health day, Farmers day	05	118	23	141	14	12	26	4	3	7
Total	730	47539	33021	80554	659	373	1022	302	36	338

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL (2019)**9.A. Production of seeds by the KVKs**

Crop category	Name of the crop	Name of the Variety	Name of the Hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Rabi Jowar	M35-1		4.65	18,375	10
Oilseeds						
Pulses	Greengram	Virat		1.0		Seeds submitted seed unit UAS,Dharwad
	Greengram	DGGV-2		2.0		Seeds submitted seed unit UAS,Dharwad
	Pigeonpea	TS-3R		30.0 (Approx)		2020 <i>kharif</i> season seed will be sold
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others (specify)						
Total				41.65		

9.B. Production of planting material by the KVKs

rop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings	Drumstick	PKM-1		600	9000	
Fruits	Guava	L-49		186kg	2790	
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others(specify)						
Total						

9.C. Production of Bio-Products

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

9.D. Production of livestock

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

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

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

(A) KVK Newsletter:

Date of start: _____ Periodicity: _____ Copies printed in each issue: _____ Nil

(B) Literature developed/published

Item	Number
Research papers- International	
Research papers- National	
Technical reports	
Technical bulletins	
Popular articles - English	01
Popular articles – Local language	14
Extension literature	15
Others (Pl. specify) abstracts	07
TOTAL	37

10.B. Details of Electronic Media Produced

S. No.	Type of media	Title	Details
1	CD / DVD		
2	Mobile Apps		
3	Social media groups with KVK as Admin		
4	Facebook account name	kvkindi@gmail.com	
5	Instagram account name		

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

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

The Broad outline for the case study may be

Title

Background

Interventions

Process

Technology

Impact

Horizontal Spread

Economic gains

Employment Generation

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

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

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

10 F. Technology Week celebration during 2019:Nil

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

Other Details

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

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

Nil

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory Nil (Soil and Water Testing Laboratory is not established yet KVK Indi)

A. Status of establishment of Lab : NIL

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

Sl. No	Name of the Equipment	Qty.	Cost	Status
1				
2				
3				
Total				

B. Details of samples analyzed since establishment of SWTL:

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

C. Details of samples analyzed during the 2019:

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

11.2 Mobile Soil Testing Kit

A. Date of purchase and current status

Mobile Kits	Date of purchase	Current status
1.		
2.		

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

	Progress during 2019	Cumulative progress
Samples analyzed (No.)		
Farmers benefited (No.)		
Villages covered (No.)		

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

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

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/Minister/MLA attended (No.)	Other Public Representatives participated	Officials participate (No.)	Media coverage (No.)

PART XII. IMPACT

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

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

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

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

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

IMPACT OF VOCATIONAL TRAINING ON SCIENTIFIC GOAT FARMING

Goat Farming is the major enterprise in KVK Vijayapura-II jurisdiction. However, most of the farmers are unaware of scientific method of goat farming which is leading to high kid mortality and low overall body weight gain which is ultimately responsible for huge economic losses to the farmers. Further, many farmers want to start the goat farming enterprise however; they fail due to lack of knowledge on scientific goat farming. Further, few farmers who are engaged in goat farming are not getting the maximum returns out of it. Hence, to encourage the farmers about goat farming a vocational training programme on advanced techniques/scientific goat rearing was conducted at KVK, Vijayapur-II (Indi).

Mode of Approach

The training programme was open for any category of peoples. However, we focussed on rural youths, retired personnel's and the farmers who are already engaged with goat farming. The training was attended by more than 50 farmers/rural youths and few farmers came from outside of our jurisdiction area. The training was conducted for three days during which lectures on different aspects of scientific goat farming were delivered by experts. Further, hands on training was also extended to farmers on topics like, azolla cultivation, selection of best breeds, deworming and cultivation of fodder varieties etc. Farmers were taken to the goat farm scientifically maintained by farmer with least expenditure.

Outcome:

Extent of adoption:

Among the 50 farmers, 32 were already engaged in goat farming however, remaining 18 farmers/youth were about to start the goat farming. Interestingly, after attending the training programme 8 (45.0%) out of 18 farmers/youths started the goat farming under the continuous guidance of Animal Scientist of KVK, Indi. Further, among the 32 farmers who were already engaged in goat farming, only few were knowing about the activities like azolla feeding (6.0%), regular deworming (25.0%), vaccination (18.0%), green fodder production (Hybrid napier) (35.0%) , Lucerne cultivation (30.0%), mineral mixture (21.0%) and concentrate feeding (18.0%). However, after attending training programme adoption level of various activities was increased viz, azolla feeding (56.0%), regular deworming (62.0%), vaccination (46.0%), green fodder production (Hybrid napier) (68.0%), Lucerne cultivation (56.0%), mineral mixture (50.0%) and concentrate feeding (40.0%). However, many farmers even after acquiring information on different activities has not adopted these activities may be due to financial burden or so.

Adoption Level of different Technologies at Farmer's Field

Sl.no	Parameters	Level of adoption (%)		% Gained
		Before training	After Training	
1	Azolla Feeding	6.0	56.0	50.0
2	Regular Deworming	25.0	62.0	37.0
3	Vaccination	18.0	46.0	28.0
4	Green fodder production (Hybrid napier)	35.0	68.0	33.0
5	Lucerne	30.0	56.0	26.0
6	Mineral mixture feeding	21.0	50.0	29.0
7	Concentrate feeding	18.0	40.0	22.0

The training has significantly boosted many youths to take up goat farming activity as a source of livelihood for their family. Further, overall adoption percentage by the farmers, which indicated that training, had a significant impact in uptake of new technologies thereby increasing their livelihood with renewed income. The training imparted to the farmers increased the exposure of awareness to new messages in the respondents, increased their knowledge and also farmers got experience to new technologies

PART XIII - LINKAGES

13A. Functional linkage with different organizations

Name of organization	Nature of linkage
State Dept. of Agriculture	Trainings, demonstrations, seminars and field days.
State Dept. of Horticulture	Training programmes, demonstrations, seminars and field days, soil testing
State Dept. of Animal husbandry & Veterinary Sciences	Animal Health Camps, trainings.
Syndicate Bank	Guidance to beneficiaries about schemes in Trainings
All India Radio, E-TV, Udaya, Chetan TV and Door Darshan	Publicity and transfer of technology
Farmers clubs	Trainings, demonstrations, seminars and field days.
Sri KshetraDharmastalaGrameenabhivrudhiYojane (SKDRDP)	Seminar, Field day.
Raitamitra, NGO	Trainings
Dhan Foundation	Trainings, seminars
FPO, Indi, Sindagi	Technical backstopping
KMF	Demonstrations
Department of Women and Child Development	Primary data collection on women and children
RUDSETI	Organizing training programmes for women SHG's
Line departments	Organizing training programmes, income generating activities for women for women, participation as recourse person

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Preparation of ready to feed enriched crop residue fodder blocks	2018-19	UAS, Dharwad	10,00,000
Promotion of sustainable nutrition for farm women through nutria farms	2018-19 (Completed)	UAS, Dharwad	6,00,000
Development of DRIS norms in Grape, Lime and Pomegranate orchards of Indi and Sindagi Talukas of Vijayapura district.	2018-19(Completed)	UAS, Dharwad	3,20,000
Short Term Research Projects 1.Preparation of ready to feed enriched crop residue fodder blocks 2.Popularization of Bush Bean in northern parts of vijayapura district 3. Promotion of sustainable nutrition through Nutri-farms and educating farm women on diet diversification in Vijayapur District	2018-19 (Completed)	ATMA, vijayapura	1,45,000
FPO (Sindagi)	2018-19(Completed)	NHM, Bengaluru GoK	3,09,750
Short Term Research Projects	2018-19(Completed)	ATMA, vijayapura	73,000
FPO (Indi)	2018-19(Completed)	NHM, Bengaluru GoK	3,09,750

13C. Details of linkage with ATMA

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings				
02	Research projects	1.Preparation of ready to feed enriched crop residue fodder blocks 2.Popularization of Bush Bean in northern parts of Vijayapura district 3. Promotion of sustainable nutrition through Nutri-farms and educating farmwomen on diet diversification in Vijayapur District			Project completed report submitted
03	Training programmes				
04	Demonstrations				
05	Extension Programmes				
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Others (Pl. specify)				
06	Publications				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	Other Activities (Pl.specify)				
	Watershed approach				
	Integrated Farm Development				

	Agripreneurs development				

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

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

13E. Nature of linkage with National Fisheries Development Board

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

13F. Details of linkage with RKVY

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

13G. Kisan Mobile Advisory Services

Month	Message type (Text/Voice)	SMS/voice calls sent (No.)						Total SMS/Voice calls sent (No.)	Farmers benefitted (No.)
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprises		
January	Text	1				1		2	320
February	Text	1				1		2	320
March	Text	1		1				2	325
April	Text	2						2	335
May	Text	1				1		2	585
June	Text	1				1		2	585
July	Text	1				2		3	633
August	Text	3	1					4	759
September	Text	3				2		5	771
October	Text	2	1			1		4	806
November	Text		1	1		2		4	860
December	Text	1				3		4	871
Total		17	3	2		14		34	7170

PART XIV- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Dairy Unit	2018			Milk	4010.5	30000	1,46,437	

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals	20.10.2018	22.02.2019	4.0	M35-1	Certified Seeds	4.65	5000	18,375	
Pulses									
Greengram	13.06.2019	25.09.2019	1	DGGV-2	Breeder Seeds	2.5	10,000	25,000	
Greengram	13.06.2019	25.09.2019	1	VIRAT	Breeder Seeds	1.0	5,000	10,000	
Redgram	29.06.2019	16.01.2020	4	TS-3R	Certified Seeds	30 q	98,000	1,90,000 (Approximately)	
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Guava	Existing/Established	November Month 2019	50 Trees	L-49	Commercial	186Kg	1000	2790	
Vegetables Drumstick	Existing/Established			PKM-1	Commercial	600 fruits		9000	
Others (specify)									

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

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

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

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

14E. Utilization of hostel facilities : Hostel yet not started functioning.

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

14F. Database management

S.No	Database target	Database created
1	Farmer database	Under Progress

15.2 District Agriculture Meteorological Unit (DAMU): NIL

Sl No.	Agro advisories			Farmers awareness programmes	
	No of Agro advisories generated	No of farmers registered for agro advisories	No of farmers benefitted	No of programmes	No of farmers benefitted
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	ICAR KVK Vijayapura-II (Indi)	<ol style="list-style-type: none"> 1. Lectures on nano fertilizer 2. Balanced use of fertilizer 3. Film show 4. Interaction with farmers 	2	68	70

15.4 Seed Hub: Nil

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

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: Nil

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

15.8 Micro-Irrigation: Nil

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

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	1.SBI	Indi	2214	Senior Scientist & Head, KVK, Indi	36561181843	5860002209	SBIN0002214
	2.SBI	Indi	2214	Senior Scientist & Head, KVK Training Revolving Fund	37223614685	5860002209	SBIN0002214
	3.SBI	Indi	2214	Senior Scientist & Head, Seed Revolving Fund KVK, Indi	37275359075	5860002209	SBIN0002214

16B. Utilization of KVK funds during the year 2018-19(Rs. in lakh) as on 31.12.2019

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	77,95,000	56,25,000	42,74,883
2	Traveling allowances	1,00,000	1,00,000	1,02,000
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2,00,000	2,00,000	1,93,818
B	POL, repair of vehicles, tractor and equipments	125000	125000	148998
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	100000	100000	83120
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	25000	25000	15000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	325000	325000	273342
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	70000	70000	56356
G	Training of extension functionaries	25000	25000	16000
H	Maintenance of buildings	-	-	-
I	Establishment of Soil, Plant & Water Testing Laboratory	25000	25000	15000
J	Library	5000	5000	3500
K	Extension activities	25000	25000	22000
L	EDP/Innovative activities	30000	30000	20000
M	Nutri garden	25000	25000	19000
TOTAL (A)		8875000		
B. Non-Recurring Contingencies				
1	Works	-	-	-
	Administrative building (IIIrd Installment)	4800000	4800000	3000500
	Farmers Hostel (all installment after deducting initial release)	7169000	7169000	6604000
2	Equipment including SWTL & Furniture	-	-	-
	IT	200000	200000	150000
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			-
TOTAL (B)		12169000		
C. REVOLVING FUND		3,00,000	3,00,000	3,00,000
GRAND TOTAL (A+B+C)		2,10,44,000	1,91,74,000	1,52,97,517

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 2016 to March 2017	--	--	--	--
April 2017 to March 2018	5,00,000/-	--	74,575/-	4,25,425/-
April 2018 to March 2019	4,25,425/-	4,40,000/- (Receipts of 2017-2018)	86,700/-	7,78,725/-

17. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. Savita B	Scientist (Soil Science)	Land resource management for climate smart agriculture.	NBSS&LUP, Nagpur	03.09.2019 to 25.09.2019
		National conference on Arid Fruit: A Way Forward for Sustainable Production and National Security	UAS Raichur	28.11.2019 to 30.11.2019
Heena M S	Scientist (Horticulture)	Farmer producer organizations for profitability in agriculture and allied sectors	EEI, Hyderabad	17.09.2019 to 21.09.2019
		Model production and protection practices in pomegranate	NRC, Pomegranate, Solapur	4.11.2019 to 8.11.2019
		National conference on Arid Fruit: A Way Forward for Sustainable Production and National Security	UAS Raichur	28.11.2019 to 30.11.2019
		National workshop on Gender Sensitization and Policy Advocacy of Gender Functionaries	SAMETI, West Bengal.	5.12.2019-6.12.2019
Dr. Syeda Sameena Anjum	Scientist (Plant Pathology)	HRD on professional excellence	EEI Hyderabad	16.07.2019 to 20.07.2019

		ASCI Skill Training of Trainer Programme	UAS, Bengaluru GKVK campus	20.11.2019 to 22.11.2019
		National conference on Arid Fruit: A Way Forward for Sustainable Production and National Security	UAS Raichur	28.11.2019 to 30.11.2019
		Transdisciplinary approaches to plant pathology research, educational and extension in response to changing climate: The way Ahead	UAS, Raichur	06.12.2018 to 07.12.2018
Dr. Santosh Shinde	Scientist (Animal Science)	ASCI Skill Training of Trainer Programme	UAS, Bengaluru GKVK campus	20.11.2019 to 22.11.2019

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