

KRISHI VIGYAN KENDRA, GANGAVATHI (KOPPAL DISTRICT)

ANNUAL REPORT- 2021

(FOR THE PERIOD FROM 01 January, 2021 TO 31 December, 2021 along with good action oriented photographs in jpeg format for all activities of KVK with size of more than 2 MB need to be sent separately with caption in the file name)

KVK Address with QR Code, web site, E-mail, Tel and Host Organization details

GENERAL INSTRUCTIONS

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

- Annual report is the most important document for the KVK and it directly reflects the overall achievements pertaining to the reported period. Hence due care needs to be given by each KVK while preparing the report.
- Period of Report is from 01 January, 2021 to 31 December, 2021.
- Action photographs with relevant captions covering all OFTS/FLDS/TRAINING/EXTENSION activities of the KVK in High resolution should be submitted separately in a CD/DVD along with this report. A part from this, soft copy of the activity wise photos may be submitted in JPEG format.
- Prepare Summary tables carefully tallying with the relevant portions of the main report on all aspects.
- Retain the blank column and rows as such and do not merge the cells. Please specify NIL, wherever not applicable or details are not available.
- Check the names of varieties and hybrids and specify in the report.
- Check the units and totals of each data table.
- Extension activity under celebrations for each important day, please insert separate rows and give appropriate data separately. Clubbing of data should be avoided.
- Success stories/case studies should be supported with data tables and graphs. Without photos success stories will not be considered for inclusion in Annual Report of ATARI.

PART I – 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-Krishi Vigyan Kendra, Gangavathi (koppal) ARS Campus, Kanakagiri Road, Gangavathi-583 227 Koppal District	-	-	kvk.koppal@icar.gov.in pckvkkoppal@uasraichur.edu.in	www.kvkgangavathi.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 Raichur UAS Campus, Lingasugur Road, Raichur-584102	08532-221444	08532-220444	vc@uasraichur.edu.in	www.uasraichur.edu.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. M. V. Ravi Senior Scientist & Head	-	9480696316	pckvkkoppal@uasraichur.edu.in

1.4. Year of sanction: 2004

1.5. Staff position as on 31 December 2021

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Head/Senior Scientist	Dr. M. V. Ravi	Sr. Scientist & Head	M	Soil Science & Agril. Chemistry	Ph.D (Soil Science)	1,31,400 – 2,17,100	1,39,400	28.11.2019	Permanent	Others
2	Scientist/SMS	Mrs. Kavitha Ullikashi	Scientist (Home Science)	F	Home Science	MHSc (Food Science & Nutrition)	57700-182400	75300	22.06.2017	Permanent	SC
3	Scientist/SMS	Mr. Raghavendra Yaligar	Scientist (Agril. Entomology)	M	Agril. Entomology	M.Sc (Agril. Entomology)	57700-182400	82300	15.09.2017	Permanent	ST
4	Scientist/SMS	Dr. Jyothi, R.	Scientist (Horticulture)	F	Horticulture	Ph.D (Horticulture)	57700-182400	89900	25.07.2011	Permanent	ST
5	Scientist/SMS	Dr. Mahanthesh, M.T.	Scientist (Animal Science)	M	Animal Science	M.V. Sc (Animal Bio Technology)	57700-182400	77600	19.08.2011	Permanent	OBC
6	Scientist/SMS	Mrs. J. Radha	Scientist (Seed Science & Technology)	F	Seed Science & Technology	M.Sc (Seed science and Technology)	57700-182400	73100	12.05.2016	Permanent	ST
7	Scientist/SMS	VACANT	-	-	-	-	-	-	-	-	-
8	Technical Officer (Soil Science.)	Mrs. Farzana M. Korabu	Technical Officer (Soil Science)	F	Molecular Biology & Agril. Biotechnology	M.Sc (Molecular Biology & Agril. Biotechnology)	9,300-34,800	56900	11.11.2008	Permanent	OBC
9	Technical Officer (Computer)	VACANT	-	-	-	-	-	-	-	-	-
10	Technical Officer (Farm Management)	Mr. Narappa, G.	Technical Officer (Farm Mgmt.)	M	Agronomy	M.Sc (Agronomy), MBA	9,300-34,800	56900	16.07.2009	Permanent	ST
11	Assistant	Mr. T. Basavaraj	Assistant	M	Arts	BA		30350	14.05.2020	Permanent	
12	Jr. Stenographer	Mr. Ravi S	Stenographer	M	Arts	MA	37900-70850	39800	17.06.2019	Permanent	OBC
13	Driver - 1	Mr. Khadarbasha	Driver (HV)	M	-	SSLC	27650-52650	31850	03.01.2012	Permanent	OBC
14	Driver - 2	VACANT	Driver (Light Vehicle)								
15	SS-1	Mrs. Renukamma	Cook-cum-caretaker	F	-	SSLC	21400-42000	27868	04.06.2019	Permanent	ST
16	SS-2	Mr. Basappa, K.	Attender	M	-	SSLC	21400-42000	28950	19.02.2016	Permanent	ST

1.6. Total land with KVK (in ha): 19.9 ha

S. No.	Item	Area (ha)
1	Under Buildings	01.60
2.	Under Demonstration Units	-
3.	Under Crops	16.70
4.	Orchard/Agro-forestry	01.60
5.	Others	-
		19.9 ha.

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR, New Delhi	October, 2006	500	25,65,000	-	-	Established
2.	Farmers Hostel	ICAR, New Delhi	July, 2008	350	36,00,000	-	-	Established
3.	Staff Quarters	ICAR, New Delhi	June, 2007	400	36,92,000	-	-	Established
	1					-	-	
	2					-	-	
	3					-	-	
	4					-	-	
	5					-	-	
4.	Demonstration Units							
	1. Vermicompost Units	ICAR, New Delhi	Aug. 2013	6 Units	15,000	-	-	Established
	2. Horticulture Nursery	NHM, Bangalore	Aug. 2013	1 Unit	6,32,007	-	-	Established
	3. Fodder Bank	ICAR, New Delhi	Oct.2013	2 acre	20,000	-	-	Established
	4. Chaff Cutter Cum Grinder	ICAR, New Delhi	Jan. 2013	1 Unit	40,000	-	-	Present
	5. Nutrition Garden	ICAR, New Delhi	Sep. 2013	1 Unit	5,000			Established
	6. Azolla Unit	ICAR, New Delhi	Oct.2013	2 Units	3,000	-	-	Established

	7. Millet Processing Unit	UAS, Raichur & KSDA, Bangalore	Nov. 2013	1 Unit	8,00,000	-	-	Established
	8. Dairy Unit	ICAR, New Delhi	Jan 2015	53	2,25,000	-	-	Established
	9. Vermicompost units	ICAR, New Delhi	Mar 2014	20 units (0.25 acre)	1,00,000	-	-	Established
	10. Compost Unit	ICAR, New Delhi	July 2015	02 unit	57670	-	-	Established
	11. Vegetable special unit	ICAR, New Delhi	Feb 2014	01 unit	300000	-	-	Established
	12. Honey bee unit	ATMA	2014	02 No.	-	-	-	Established
5	Fencing	-	-	-	-	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godown	-	-	-	-	-	-	-
9	Fish Pond	ICAR, New Delhi	-	1Unit	70,000	-	-	Established

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Bolero	2016-17	6,63,495	15573	Good
New Holland Tractor	2006-07	4,99,502	311.50 hours	Good
Bajaj CT 100	2006-07	32551	-	Under repair
Hero Honda Passion Plus	2008-09	50,000	-	Good
John Deer Tractor	2014-15	6,66,705	559.60 hours	Good

C) Lab equipment & AV aids

Name of the equipment	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
Details Crew Augar head sign obtaining soil suppres complete with lemmelie long + peces & Handle	24.02.2021	1	3835	Good
Details post hold Augush Z for obtaining undreshedule soil samples with one mlie long pipe & thrith handel	24.02.2021	1	3835	Good
Details soil Agustube 1nd decton long with 50 cm verticle soil completewith hand	24.02.2021	1	6300	Good
Aluminium moster cum roundshape with lid size 75mm dier SD MMH	24.02.2021	1	13970	Good
Aluminium moisture cancrowd shape with lid size 75mm dier diax 50mm ht	24.02.2021	1	7050	Good

SE mg Rotary shaker-2 model 22/99 450x450mm, 252 mlx16No	24.02.2021	1	41800	Good
Deioniser, CA model consists of inbui Hprefilter, contion & anion resinocolumn, conductives metere all housed in trolly mounted method stand, deionized water will how the conductivity of less than 10m/cm	09.03.2021	1	22770	Good
Wooden stool	09.03.2021			
Specificatives Single solid door with lods & hore four wheels	01.01.2021	1	94000	Good
Soiltly drometere	01.01.2021	1	19750	Good
Double ring inifitrometer With point gaege double ring inifitrometere made from mild steel shed rolled	01.01.2021	1	31450	Good
Details high speed stress	01.01.2021	1	18800	Good

D) Farm equipment and implements : NIL

Name of the equipment/implement	Year of purchase	Quantity (No.)	Cost (Rs.)	Present status
-	-	-	-	-

1.8. Details of SAC meeting organized

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)

Sl. No	Farming system/ enterprise
Rainfed Situation	
1	Greengram – Rabi Sorghum
2	Sunflower – Chickpea
3	Greengram – Wheat
4	Cotton – Fallow
5	Fallow – Sorghum
6	Bajra – Bengalgram
7	Foxtail millet
8	Goat, Sheep, Cows and Buffalos rearing
Irrigated Situation	
9	Paddy based cropping system
10	<ul style="list-style-type: none"> • Fruit Crop (Pomegranate, Banana, Mango, Sapota, Citrus & Papaya) based cropping system • Vegetable (Tomato, Chilli & Brinjal) based cropping system
11	Sunflower – Maize – Groundnut
12	Maize– Sunflower – Groundnut
13	Onion – Chilli – Cotton
14	Dairying

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

Sl. No	Agro-climatic Zone	Characteristics
1	Northern Dry Zone of Karnataka, Zone – 3	<ul style="list-style-type: none"> • Very less rainfall (572 mm) and 30-35 rainy days • Medium Black, Deep Black & Red soils, Partly Irrigated (20%) and July & September are peak rainy months • Includes Agricultural crops (Paddy, Sorghum, Maize, Pearl millet, Foxtail millet, Redgram, Greengram, Groundnut, Sunflower Sesame, Bengalgram & Cotton) & Horticulture crops viz., Pomegranate, Mango, Papaya, Sapota, Banana and Vegetables (Onion, Chilli, Brinjal & Tomato etc.)

Sl. No	Agro ecological situation	Characteristics
1	Rainfed (80%)	<ul style="list-style-type: none"> ➤ Medium Black soil (Yelaburga, Kushtagi, Gangavati and Koppal) ➤ Deep black soil (Yelaburga and Koppal)
2	Irrigated (20%)	<ul style="list-style-type: none"> ➤ Red soil (Yelaburga, Kushtagi, Gangavati and Koppal) ➤ Source – TBP Canal, Well, Tank and lift irrigation

2.3 Soil type/s

Sl.No	Soil type	Characteristics	Area in ha
1	Black soils	<ul style="list-style-type: none"> • Possess a characteristically dark color, ranging from dark brown to deep black. They are high in clay content, clay mostly belong to montmorillonitic group and are sticky and plastic when wet. They show strong swelling and shrinkage with changes in moisture content and produce deep and wide cracks. Their limitation for crop production is because of their poor tillage and poor drainage. The black colour may be due to presence. • Clay-humus complexes or titaniferous-magnetite compounds. The soils classified as shallow-possessing a depth of 30 cm or less, medium-30 to 100 cm and deep black soils -100 to 200 cm or even more. • According to soil taxonomy, the common orders, sub orders and great groups of black soils are as follows. Order – Vertisol & Sub order – Torrets and Usterts • Great group – Torritorrerts, Usttorrets, Torriusterts & Ustusterts 	40%
2	Red soils	<ul style="list-style-type: none"> • Well-drained soils with clay enriched subsoil developed from granite, genesis of schists under subtropical climate. The normal red soils have a pH around neutrality acidic side. The A-horizon is dark reddish brown while B-horizon may have a dark brown color. • The clay minerals become coated with red hematite or yellow limonite forming a reddish-yellow soil. Impure iron, alumina-silica, concretions and quartz are common constituents of red soil. • According to soil taxonomy the common orders, sub orders and great groups of red soils are as follows. Order – Alfisol and Ultisol Sub order – Ustalfs, Ustults, Aquils • Great group – Haplustalfs, Rhodustalfs, Paleustalfs, Haplustults, Rhodoustults & Ochraqults 	60%

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

Irrigated

Sl. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	36667	146301	3990
2	Maize	13316	51267	3850
3	Bajra	1166	1982	1700
4	Millets	-	-	-

5	Redgram	879	1077	1225
6	Bengalgram	-	-	-
7	Greengram	-	-	-
8	Horsegram	-	-	-
9	Sunflower	4714	8250	1750
10	Groundnut	4921	11220	2280
11	Cotton	1568	4234	270

Rainfed

Sl. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Paddy	110	35	315
2	Maize	42479	17629	415
3	Bajra	54973	13743	250
4	Millets	4462	1339	300
5	Redgram	24298	8504	350
6	Bengalgram	52498	39374	750
7	Greengram	28843	7211	250
8	Horsegram	5478	1698	310
9	Sunflower	9600	3600	375
10	Groundnut	15164	5307	350
11	Cotton	30	15	5

* Source : Karnataka State Department of Agriculture (KSDA), Koppal

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
Jan-2021	16.80	29.90	17.64	57.09
Feb-2021	0.5	30.96	15.89	40.42
Mar-2021	0	34.35	15.65	30.38
Apr-2021	4.0	38.27	23.84	85.83
May-2021	70	37.17	24.7	87.03
Jun-2021	65	33.67	23.98	90.60
Jul-2021	2.5	31.91	24.12	91.39
Aug-2021	49.5	31.92	23.71	93.61
Sep-2021	104.5	30.79	23.29	96.87
Oct-2021	40.5	32.06	22.51	99.58
Nov-2021	115.5	29.7	21.28	99.67
Dec-2021	4.5	30.37	17.9	99.81
Total	473.3	32.59	21.21	81.02

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

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

Particulars	Population	Production	Productivity
Cows	2,31,413	347797 Lit/day	3 Lit/day
Buffalos	63,467	53037 Lit/day	2.5 Lit/day
Sheep	6,25,367	5636 ton	18 kg / Sheep
Goats	1,72,578	1729 ton	20 kg /Goat
Figs	8651	108 ton	25 kg /Fig
Rabbit	519	1 ton	2 kg / Rabbit
Poultry (Local and improved) Duck, Turkey Hen and others	40,00,09,653	2961 ton	1.5 kg / Animal

Sl.No.	Crop	Area (ha)	Production (Tons)	Productivity (kg/ha)
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1	Fruits	9149.66	194946.2	21.31
2	Vegetables	30697.8	558561	18.20
3	Flowers	862	104	0.12
4	Spices	231.38	2382.1	10.30
5	Plantation	1042	819	0.79

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

2.7 District profile maintained in the KVK has been **Updated** for 2021: 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
1.	Gangavathi	Karatagi	Chikka Dankanakall, Hanawal, Budugumpa, Yaradona, Bapireddy camp, Karatagi,	Two year	Paddy	<ul style="list-style-type: none"> ▪ Increased soil salinity (4 – 10 dS/m) in TBP command area from 20,000 ha to 96,000 ha ▪ Yield reduction by 15-20 % ▪ 	Crop productivity in saline soils
2.	Kustagi Yelaburaga	Koppal	Vataparvi, Chikkabommanal, Muddalagundi	Two year	Groundnut	<ul style="list-style-type: none"> ▪ Lack of awareness on high yielding, drought tolerant & High oil content varieties 	Crop productivity

3.	Gangavathi	Karatagi	Chikka Dankanakall (Karatagi)	Two year	Paddy	<ul style="list-style-type: none"> ▪ Indiscriminate use of chemical fertilizers (2-3 times) more than RDF & deterioration of soil health ▪ Increased COC ▪ Not considering soil nutrient availability and uptake to produce targeted yield ▪ Spatial and temporal change in nutrient availability 	Precision nutrient management
4.	Gangavathi	Karatagi	Chikka Dankanakall Budugumpa, Yaradona, Siddapura (Karatagi, Gangavathi)	Three years	Paddy	<ul style="list-style-type: none"> ▪ Low yield due to RDF by 15-20 % ▪ Indiscriminate use of fertilizer (2-3 times more than RDF), High COC • Increased incidence of pests and diseases. 	Crop productivity
5.	Gangavathi	Karatagi	Chikka Dankanakall Budagumpa (Karatagi)	Two year	Paddy	<ul style="list-style-type: none"> ▪ Increased COC due to high usage of chemical fertilizers/pesticides ▪ Increased demand for organic rice ▪ To enhance soil fertility and quality of rice 	Organic nutrient management

6.	Gangavathi	Karatagi	Hiredakanakal/ Chikkadankanakal/Bapireddy camp	Two year	Paddy	<ul style="list-style-type: none"> ▪ Excess use of N fertilizers (2 to 3 times more than RDF) & high COC ▪ Loss of N to the extent of 50-60 %, <ul style="list-style-type: none"> • Don't have much awareness on Nano nitrogen & zinc fertilizers 	Nano - technology
7.	Gangavathi	Karatagi	Karatagi, Heruru, Hosalli	Two year	Paddy	<ul style="list-style-type: none"> ▪ Don't have much knowledge on herbicide usage in paddy nursery & main field. 	Weed management
8.	Kanakagiri	Tippanala	Kanakagiri, Tippanala, Sulekal, Kalkeri	Two year	Sunflower	<ul style="list-style-type: none"> ▪ Non-awareness about usage of herbicides in sunflower ▪ Shortage of labour <p>Low yield</p>	Weed management
9.	Koppal	Vataparvi	Vataparvi, Chikkabommanala	Two year	Groundnut	<ul style="list-style-type: none"> • Low yield in normal condition (10-15 %) • Less knowledge on BBF for effective soil & moisture conservation • Increased pest and diseases causes low yield <p>Increased COC by excess use of pesticides</p>	Crop productivity & IPDM

10.	Gangavathi	Siddapur	Hiredakanakal/ Chikkadankanakal/Bapireddy camp	Two year	Paddy	<ul style="list-style-type: none"> • Excess use of N fertilizers (200-250 % more than RDF) & high COC • Loss of N to the extent of 50-60 %, No precise application of nitrogen fertilizers 	Demonstration of LCC for real time nitrogen management in Paddy
11.	Gangavathi	Marali	Hiredakanakal/ Chikkadankanakal/Bapireddy camp	Two year	Paddy	<ul style="list-style-type: none"> • Excess use of water • Lack of awareness of water saving techniques 	Water productivity
12.	Gangavathi	Karatagi	Karatagi/ Hanawal Somanahal	Three Years	Green Manure crop	<ul style="list-style-type: none"> ▪ Low soil fertility & high salinity in TBP area • Lack of awareness on crop rotation with GM in paddy fallows and also GM seed production 	Seed production and soil fertility and productivity
13.	Koppal	chikkabommanal	Vataparvi, Chikkabommanal/Yaradona, Mangaluru	Three Years	Proso millet	<ul style="list-style-type: none"> ▪ 20-25 % yield decrease in local variety, long duration (90-100 days) • Lack of awareness on high yielding and short duration variety 	Crop productivity
14.	Koppal	chikkabommanal	Vataparvi, Chikkabommanal/Yaradona	Two year	Little millet	<ul style="list-style-type: none"> ▪ Low yield (10-15 %) and lodging in local variety; • Lack of awareness on high yielding and non-lodging variety 	Crop productivity

15.	Koppal	chikkabommanal	Vataparvi, Chikkabommanal/ Muddalagundi	Three Years	Sorghum	<ul style="list-style-type: none"> ▪ Low yield (15-20 %) & susceptible to Charcoal rot and rust disease in local variety (Maldandi : M-35-1) • 	Crop productivity
16.	Yelburaga	Vatparvi	Vataparvi, Yaradona	Three Years	Browntop millet	<ul style="list-style-type: none"> ▪ Low yield (30-35 %) & long duration • 	Crop productivity
17.	Gangavathi	Budugumpa	Chikkadankanakal/ Budagumpa	Two year	Paddy	<ul style="list-style-type: none"> • Existing varieties are long duration and fetches low price in market. High COC 	Crop productivity
18.	Gangavathi	Karatagi	Siddapura/Marali	Two year	Paddy	<ul style="list-style-type: none"> • New pest , Lack of effective management practices 	IPM
19.	Yelburaga	Vatparvi	Vataparavi,Muddalagundi Chikkabommanal	Two year	Bengalgram	<ul style="list-style-type: none"> ▪ Rust is a new problem & no effective management practices • Non-awareness of seed treatment & biagents utilization 	IDM
20.	Yelburaga	Vatparvi	Vataparavi ,tavargera Jerala	Three years	Citrus	<ul style="list-style-type: none"> ▪ Increased dieback, canker and rootgrub problem which cause low yield & decreasing area Less awareness on micro-nutrient application & biofungicide utilization 	ICM

21.	Kushtagi	Muddalagundhi	Muddalagundhi /Kesarhatti	Three years	Guava	<ul style="list-style-type: none"> ▪ Emerging crop in Koppal district (696 ha) and suffering for wilt complex ▪ There was no effective chemical management ▪ Lack of awareness of bio-agents for effective management of wilt complex <p>High COC, excess use of K fertilizers & high wilt incidence</p>	ICM
22.	Yelburaga	Vatparvi	Vataparvi/ Muddalagundi	Three years	Ridgegaurd	<ul style="list-style-type: none"> ▪ High seed cost for private hybrid ▪ (Rs. 8000-9000/kg) <p>Lower yield & late flowering in local varieties</p>	Crop productivity
23.	Yelburaga	Vatparvi	Vataparvi/ Muddalagundi	Three years	China aster	<ul style="list-style-type: none"> ▪ New flower crop & high market demand & income in local market for garland making 	Crop productivity
24.	Yelburaga	Vatparvi	Vataparvi/ Muddalagundi	Two year	Marigold	<ul style="list-style-type: none"> ▪ High seedling cost (Rs. 3.0-3.5/seedling) • Market demand for Yellow colour flower 	Crop productivity

25.	Yelburaga	Vatparvi	Vatoarvi,chikkabommanal ad muddalgundi	Two year	Fertilizer application	<ul style="list-style-type: none"> ▪ Lack of awareness of portable fertilizer feeder equipment ▪ Traditional method is labour intensive, time consuming & drudgery • Wastage of fertilizer in broadcasting & less fertilizer use efficiency 	Drudgery reduction
26.	Gangavathi	Karatagi	Gangavathi, Koppal and Karatagi	Two year	terrace garden	<ul style="list-style-type: none"> • Prevalence of malnutrition in children in Koppal district (55.7 %) • Prevalence of anaemia in children (60.9%) and in women (70 %) <p>High cost of vegetables</p>	livelihood security
27.	Koppal	Chikkabommanal	Chikkabommanal ,Mudalgundi	Two year	Nutri-garden	<ul style="list-style-type: none"> • Prevalence of anaemia and Fe def. in children (60.9%) and women (70%). 	Nutritinal security
28.	Yelburagi	Vataparvi	Vataparvi, Chikkadankankal,Chikkabommanal		Cereal &Pulses	<ul style="list-style-type: none"> • Un scientific storage. Storage loss (30%) due to pest incidence 	Storage of seeds
29.	Gangavathi	Karatagi	Budagumpa Chikkadankanakal Gangavathi		Poultry	<ul style="list-style-type: none"> • Decreased reproductive performances (8-10%) in incandescent bulb <p>High feed intake and mortality in layer birds</p>	Poultry production

30.	Koppal Gangavathi	Karatagi	Maddalagundi, chikkadankanakal Chikkabommanal		Maize	<ul style="list-style-type: none"> ▪ High feed cost & there was less utilization of maize harvested cobs. 	Low Cost Feed Resource
31.	Koppal Gangavathi	Karatagi	Maddalagundi, chikkadankanakal Chikkabommanal		Buffaloes	<ul style="list-style-type: none"> ▪ Decrease in milk production and reproductive performance during summer season due to heat stress 	Animal health
32.	Koppal Gangavathi	Karatagi	Chikkadankanakal, Maddalagundi, Vataparvi		Sheep/Goat	<ul style="list-style-type: none"> • Lack of awareness of fodder preservation technologies for better utilization of excess fodder resource and use in off/drought situation 	Quality feed
33.	Yelaburaga Gangavathi	Karatagi	Chikkadankanakal, Vataparv		Dairy	<ul style="list-style-type: none"> • Lack of awareness of Integrated approach to improve milk yield, SNF, fat%, early post-partum estrous and health improvement 	IDM
34.	Gangavathi	Karatagi	Sanapura, Hirekheda, Siddapura ICAR-KVK, Gangavathi		Fishary	<ul style="list-style-type: none"> ▪ Slow growth & less weight in local variety. • Lack of awareness on high value & high yielding fishes 	Fish production

2.9 Priority thrust areas

S. No	Thrust area
1	Integrated Crop Management
2	Integrated Disease management
3	Integrated Pest Management
4	Integrated Nutrient Management
5	Varietal evaluation
6	Variety demonstration
7	Demonstration of disease resistant high yielding hybrid
8	Drudgery reduction
9	Mushroom production
10	Hybrid Evaluation
11	Crop Diversification
12	Processing and value addition
13	Water management
14	Reproductive management
15	Health management
16	Marketing linkage

3.B1. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No	Kg
1	Crop productivity in saline soils	Paddy	<ul style="list-style-type: none"> ▪ Increased soil salinity (4 – 10 dS/m) in TBP command area from 20,000 ha to 96,000 ha ▪ Yield reduction by 15-20 % ▪ 	Assessment of different salt tolerant paddy varieties for enhancing productivity in saline soils	-	-	-	-	1	0.75	-	-	-	-
2	Crop productivity	Groundnut	Lack of awareness on high yielding, drought tolerant & High oil content varieties	Assessment of Groundnut varieties for higher productivity	-	-	-	-	1	0.90	-	-	-	-

3	Precision nutrient management	Paddy	<ul style="list-style-type: none"> ▪ Indiscriminate use of chemical fertilizers (2-3 times) more than RDF & deterioration of soil health ▪ Increased COC ▪ Not considering soil nutrient availability and uptake to produce targeted yield ▪ Spatial and temporal change in nutrient availability 		Demonstration of Site specific nutrient management in paddy	-	-	-	1	2.5	-	-	-	4
4	Crop productivity	Paddy	<ul style="list-style-type: none"> ▪ Low yield due to RDF by 15-20 % ▪ Indiscriminate use of fertilizer (2-3 times more than RDF), High COC <p>Increased incidence of pests and diseases.</p>		Maximization of paddy yield by modified dosage of NPK fertilizer	-	-	-	1	2.5	-	-	-	4

5	Organic nutrient management	Paddy	<ul style="list-style-type: none"> ▪ Increased COC due to high usage of chemical fertilizers/pesticides ▪ Increased demand for organic rice <p>To enhance soil fertility and quality of rice</p>		Demonstration of organic nutrient management in DSR	-	-	-	1	-	-	-	-	-	2035.0
6	Nano - technology	Paddy	<ul style="list-style-type: none"> ▪ Excess use of N fertilizers (2 to 3 times more than RDF) & high COC ▪ Loss of N to the extent of 50-60 %, Don't have much awareness on Nano nitrogen & zinc fertilizers 		Demonstration of Nano-Nitrogen and Nano Zinc for enhancing the productivity and profitability in Paddy	-	-	-	1	-	-	-	30	4.0	
7	Weed management	Paddy	<ul style="list-style-type: none"> ▪ Don't have much knowledge on herbicide usage in paddy nursery & main field. 		Demonstration of weed management in Paddy	-	-	-	1	2.5	-	-	-	-	

8	Weed management	Sunflower	<ul style="list-style-type: none"> ▪ Non-awareness about usage of herbicides in sunflower ▪ Shortage of labour <p>Low yield</p>		Demonstration of new herbicide molecule in Sunflower crop	-	-	-	1	0.2	-	-	-	2.0
9	Crop productivity & IPDM	Groundnut	<ul style="list-style-type: none"> • Low yield in normal condition (10-15 %) • Less knowledge on BBF for effective soil & moisture conservation • Increased pest and diseases causes low yield <p>Increased COC by excess use of pesticides</p>		Demonstration of BBF and IPDM in Groundnut crop for enhancing Yield	-	-	-	1	-	-	-	-	40

10	Demonstration of LCC for real time nitrogen management in Paddy	Paddy	<ul style="list-style-type: none"> Excess use of N fertilizers (200-250 % more than RDF) & high COC Loss of N to the extent of 50-60 %, No precise application of nitrogen fertilizers		Demonstration of LCC for real time nitrogen management in Paddy	-	-	-	1	-	-	-	-	-
11	Water productivity	Paddy	<ul style="list-style-type: none"> Excess use of water Lack of awareness of water saving techniques 		Demonstration of Water Saving Technique : Alternate Wetting & Drying (AWD) in Paddy	-	-	-	1	-	-	-	-	-
12	Seed production and soil fertility and productivity	Green Manure crop	<ul style="list-style-type: none"> Low soil fertility & high salinity in TBP area Lack of awareness on crop rotation with GM in paddy fallows and also GM seed production		Demonstration on green manure seed production in paddy fallows and its incorporation for enhancing soil fertility and productivity of paddy	-	-	-	1	4.0	-	-	-	-

13	Crop productivity	Proso millet	<ul style="list-style-type: none"> 20-25 % yield decrease in local variety, long duration (90-100 days) Lack of awareness on high yielding and short duration variety 		Demonstration of High Yielding Proso millet Variety HB-1	-	-	-	1	0.5	-	-	-	4.0
14	Crop productivity	Little millet	<ul style="list-style-type: none"> Low yield (10-15 %) and lodging in local variety; Lack of awareness on high yielding and non-lodging variety 		12.Demonstration of High Yielding Little millet Variety HS-1	-	-	-	1	0.5	-	-	-	4.0
15	Crop productivity	Sorghum	<ul style="list-style-type: none"> Low yield (15-20 %) & susceptible to Charcoal rot and rust disease in local variety (Maldandi : M-35-1) 		Demonstration of High Yielding Sorghum variety GS-23	-	-	-	1	0.3	-	-	-	4.0
16	Crop productivity	Browntop millet	<ul style="list-style-type: none"> Low yield (30-35 %) & long duration 		Demonstration of High Yielding Browntop millet Variety HBr-2	-	-	-	1	0.5	-	-	-	4.0

17	Crop productivity	Paddy	Existing varieties are long duration and fetches low price in market. High COC		Demonstration of Paddy variety RNR-15048 for better quality	-	-	-	1	2.5	-	-	-	4.0
18	IPM	Paddy	New pest, Lack of effective management practices		Demonstration of Integrated Management of Rice gall midge to increase productivity	-	-	-	1	-	-	-	-	-
19	IDM	Bengalgram	<ul style="list-style-type: none"> ▪ Rust is a new problem & no effective management practices Non-awareness of seed treatment & biagents utilization		Demonstration of IDM in Bengalgram to minimize wilt diseases	-	-	-	1	-	-	-	-	10.0
20	ICM	Citrus	<ul style="list-style-type: none"> ▪ Increased dieback, canker and root grub problem which cause low yield & decreasing area Less awareness on micro-nutrient application & biofungicide utilization		Demonstration of ICM in acid lime to enhance the yield	-	-	-	1	-	-	-	-	30.0

21	ICM	Guava	<ul style="list-style-type: none"> ▪ Emerging crop in Koppal district (696 ha) and suffering for wilt complex ▪ There was no effective chemical management ▪ Lack of awareness of bio-agents for effective management of wilt complex <p>High COC, excess use of K fertilizers & high wilt incidence</p>	Management of wilt complex in guava	-	-	-	1	-	-	-	-	-	100.0
22	Crop productivity	Ridgegaurd	<ul style="list-style-type: none"> ▪ High seed cost for private hybrid ▪ (Rs. 8000-9000/kg) <p>Lower yield & late flowering in local varieties</p>	Demonstration of high yielding Ridge-gaurd hybrid Arka Prasanna	-	-	-	1	0.05	-	-	-	-	-

23	Crop productivity	China aster	<ul style="list-style-type: none"> ▪ New flower crop & high market demand & income in local market for garland making 		Introduction of new china aster variety Arka Archana/Arka Aadya for increasing income of farmers	-	-	-	1	0.025	-	-	-	-
24	Crop productivity	Marigold	<ul style="list-style-type: none"> ▪ High seedling cost (Rs. 3.0-3.5/seedling) Market demand for Yellow colour flower		Introduction of high yielding Marigold variety Arka Abhi	-	-	-	1	-	4000	-	-	-
25	Drudgery reduction	Fertilizer application	<ul style="list-style-type: none"> ▪ Lack of awareness of portable fertilizer feeder equipment ▪ Traditional method is labour intensive, time consuming & drudgery Wastage of fertilizer in broadcasting & less fertilizer use efficiency		Introduction of Portable Fertilizer feeder equipment for uniform application & drudgery reduction	-	-	-	1	-	-	-	-	-

26	livelihood security	terrace garden	<ul style="list-style-type: none"> • Prevalence of malnutrition in children in Koppal district (55.7 %) • Prevalence of anaemia in children (60.9%) and in women (70 %) High cost of vegetables		Demonstration of terrace garden for livelihood security	-	-	-	1	0.09	300	-	-	-
27	Nutritinal security	Nutri-garden	<ul style="list-style-type: none"> • Prevalence of anaemia and Fe def. in children (60.9%) and women (70%). 		Demonstration of Nutri-garden for year round nutrition security among farm families	-	-	-	1	0.09	900	-	-	-
28	Storage of seeds	Cereal &Pulses	<ul style="list-style-type: none"> • Un scientific storage Storage loss (30%) due to pest incidence 		Demonstration of Super Grain Bags-For storage of food grains and seeds for enhancing shelf life	-	-	-	1	-	-	-	-	-

29	Poultry production	Poultry	<ul style="list-style-type: none"> • Decreased reproductive performances (8-10%) in incandescent bulb • High feed intake and mortality in layer birds 		Demonstration of red Spectrum Of Light On Reproductive Performances In Poultry Layer Under Normal Management Practices	-	-	-	1	-	-	100 bulbs	-	-
30	Low Cost Feed Resource	Maize	<ul style="list-style-type: none"> ▪ High feed cost & there was less utilization of maize harvested cobs. 		Demonstration of Low Cost Feed Resource- ‘Maize Cob’ As Feed Ingredient To Enhance The Productive Performance In Ruminants	-	-	-	-	-	-	-	-	-
31	Animal health	Buffaloes	<ul style="list-style-type: none"> ▪ Decrease in milk production and reproductive performance during summer season due to heat stress 		Demonstration of different approaches for Thermal Stress Management In Lactating Buffaloes	-	-	-	-	-	-	60 gm niacin 100 gm yeast 1.5 kg of mustard oil	-	-

32	Quality feed	Sheep/Goat	Lack of awareness of fodder preservation technologies for better utilization of excess fodder resource and use in off/drought situation		Demonstrations of Quality Silage Making for weight gain in Stall Fed Sheep/Goat	-	-	-	1	-	-	10 plastic drums	-	-
33	IDM	Dairy	Lack of awareness of Integrated approach to improve milk yield, SNF, fat%, early post-partum estrous and health improvement		Integrated Dairy Management For improving Animal health and milk Productivity	-	-	-	1	-	-	By pass fat (Fatomax) 9 kg/Cow (100gm/day/Cow for 90 days) Deworming bolus 3 gm/cow Saff kit spray 200 ml (for 90 days) Area Specific Mineral Mixture (50gm/day/cow)	-	-
34	Fish production	Fishary	<ul style="list-style-type: none"> ▪ Slow growth & less weight in local variety. ▪ Lack of awareness on high value & high yielding fishes 		Demonstration of fast growing, short duration and high value all male tilapia fish in farm ponds	-	-	-	1	-	-	5000	-	-

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 (Field visit/Field day)
1	2	3	4	5	6	7	8
1	Assessment of different salt tolerant paddy varieties for enhancing productivity in saline soils	UAS, Raichur PJ TSAU	Paddy	5		-	-
2	Assessment of Groundnut varieties for higher productivity	UAS, Raichur UAS, Dharwad ANGRAU, AP	Groundnut	5		-	3
3	Demonstration of Site specific nutrient management in paddy	UAS, Raichur	Paddy		10	-	4
4	Maximization of paddy yield by modified dosage of NPK fertilizer	UAS, Raichur	Paddy		10	-	4
5	Demonstration of organic nutrient management in DSR	UAS, Raichur	Paddy		10	-	4
6	Demonstration of Nano-Nitrogen and Nano Zinc for enhancing the productivity and profitability in Paddy	IFFCO, Nano Bio technology research center Kalalo, Gujurath	Paddy		10	-	4
7	Demonstration of weed management in Paddy	UAS, Raichur	Paddy		10	-	4
8	Demonstration of new herbicide molecule in Sunflower crop	UAS, Raichur	Sunflower		10	-	4
9	Demonstration of BBF and IPDM in Groundnut crop for enhancing Yield	AICRP, Groundnut UAS, Raichur	Groundnut		10	-	3
10	Demonstration of LCC for real time nitrogen management in Paddy	IIRI, Hyderabad	Paddy		20	-	4

11	Demonstration of Water Saving Technique : Alternate Wetting & Drying (AWD) in Paddy	UAS, Raichur	Paddy		20	-	4
12	Demonstration on green manure seed production in paddy fallows and its incorporation for enhancing soil fertility and productivity of paddy	UAS, Dharwad and Raichur	Green Manure crop		10	-	-
13	Demonstration of High Yielding Proso millet Variety HB-1	UAS, Raichur	Proso millet		10	-	2
14	12.Demonstration of High Yielding Little millet Variety HS-1	UAS, Raichur	Little millet		10	-	2
15	Demonstration of High Yielding Sorghum variety GS-23	UAS, Raichur	Sorghum		10	-	3
16	Demonstration of High Yielding Browntop millet Variety HBr-2	UAS, Raichur	Browntop millet		10	-	3
17	Demonstration of Paddy variety RNR-15048 for better quality	UAS, Raichur	Paddy		10	-	2
18	Demonstration of Integrated Management of Rice gall midge to increase productivity	UAS, Raichur	Paddy		10	-	4
19	Demonstration of IDM in Bengalgram to minimize wilt diseases	UAS, Raichur	Bengalgram		10	-	4
20	Demonstration of ICM in acid lime to enhance the yield	UHS, Bagalkot	Citrus		10	-	2

21	Management of wilt complex in guava	IIHR, Bengaluru and NRC-Pomegranate, Solapur	Guava		10	-	2
22	Demonstration of high yielding Ridge-gaurd hybrid Arka Prasanna	IIHR, Bengaluru	Ridgegaurd		5	-	-
23	Introduction of new china aster variety Arka Archana/Arka Aadya for increasing income of farmers	IIHR, Bengaluru	China aster		10	-	1
24	Introduction of high yielding Marigold variety Arka Abhi	IIHR, Bengaluru	Marigold		5	-	3
25	Introduction of Portable Fertilizer feeder equipment for uniform application & drudgery reduction	Adoptive Agri-tech solutions, Belagam	Fertilizer application		3	-	-
26	Demonstration of terrace garden for livelihood security	UHS, Bagalkot	terrace garden		30	-	2
27	Demonstration of Nutri-garden for year round nutrition security among farm families	UHS, Bagalkot	Nutri-garden		30	-	4
28	Demonstration of Super Grain Bags-For storage of food grains and seeds for enhancing shelf life	UAS, Raichur and PCI	Cereal &Pulses		10	-	3
29	Demonstration of red Spectrum Of Light On Reproductive Performances In Poultry Layer Under Normal Management Practices	ICAR-NIANP, Bengaluru	Poultry		10	-	2

30	Demonstration of Low Cost Feed Resource- 'Maize Cob' As Feed Ingredient To Enhance The Productive Performance In Ruminants	ICAR-NIANP, Bengaluru	Maize		02	-	-
31	Demonstration of different approaches for Thermal Stress Management In Lactating Buffaloes	ICAR-Central Institute for Research on Buffaloes, Hissar	Buffaloes		10	-	2
32	Demonstrations of Quality Silage Making for weight gain in Stall Fed Sheep/Goat	KVAFSU, Bidar	Sheep/Goat		10	-	2
33	Integrated Dairy Management For improving Animal health and milk Productivity	KVAFSU, Bidar	Dairy		01	-	3
34	Demonstration of fast growing, short duration and high value all male tilapia fish in farm ponds	ICAR-Central Institute of Fresh water Aquaculture, Odisha	Fishery		05	-	3

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
03	-	02	-	-	-	-	-	-	-	-	-	-	-	-	-
03	-	02	-	-	-	-	-	-	-	-	-	10	-	02	-
-	-	-	-	08	-	02	-	-	-	-	-	28	02	05	01
-	-	-	-	07	-	03	-	-	-	-	-	25	03	10	-
-	-	-	-	08	-	02	-	-	-	-	-	30	02	11	01
-	-	-	-	09	-	01	-	-	-	-	-	27	02	10	01
-	-	-	-	09	-	01	-	-	-	-	-	36	02	09	-

-	-	-	-	06	-	02	-	-	-	-	-	38	03	11	01
-	-	-	-	07	-	03	-	-	-	-	-	08	-	03	-
-	-	-	-	08	-	02	-	-	-	-	-	23	01	04	-
-	-	-	-	07	-	03	-	-	-	-	-	27	-	05	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	09	-	01	-	-	-	-	-	06	01	02	-
-	-	-	-	09	-	01	-	-	-	-	-	08	-	03	-
-	-	-	-	08	-	02	-	-	-	-	-	12	-	02	-
-	-	-	-	08	-	02	-	-	-	-	-	17	02	03	-
-	-	-	-	07	-	03	-	-	-	-	-	10	01	02	01
-	-	-	-	08	-	02	-	-	-	-	-	23	-	05	-
-	-	-	-	08	01	01	-	-	-	-	-	21	01	03	-
-	-	-	-	07	-	03	-	-	-	-	-	07	01	02	-
-	-	-	-	10	-	-	-	-	-	-	-	11	-	03	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	08	-	02	-	-	-	-	-	04	-	02	-
-	-	-	-	05	-	-	-	-	-	-	-	12	-	05	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	25	-	05	-	-	-	-	-	21	-	03
-	-	-	-	-	24	-	06	-	-	-	-	-	27	-	02
-	-	-	-	02	05	-	03	-	-	-	-	-	27	-	03
-	-	-	-	05	02	03	-	-	-	-	-	12	02	03	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	07	-	03	-	-	-	-	-	08	01	03	-
-	-	-	-	08	-	02	-	-	-	-	-	11	-	03	-
-	-	-	-	01	-	-	-	-	-	-	-	23	05	04	-
-	-	-	-	01	-	04	-	-	-	-	-	07	-	04	-

Technology										
Farm Machineries	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-	-	-	-	-	-
Storage Technique	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Farm Mechanization	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-

4.A3. Abstract on the number of technologies assessed in respect of livestock :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	-	-	-	-	-	-
Dairy	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

4.A4. Abstract on the number of technologies refined in respect of livestock : 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	-	-	-	-	-	-
Dairy	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

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

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technologies	No. of trials	Number of farmers / locations	Area in ha (Per trial covering all Technological Options in a farm)
Integrated Nutrient Management					
Varietal Evaluation	Paddy	Assessment of different salt tolerant paddy varieties (TO1: Gangavathi sona, TO2: GNV-1109, TO3: NLR3041) for enhancing productivity	05	05	2.5
	Groundnut	Assessment of groundnut varieties (TO1: TMV-2, TO2: G-2-52, TO3: KDG-128, TO4: Kadari Lepakashi 1812 for higher productivity	05	05	2.5
Integrated Pest Management	-	-	-	-	-
	-	-	-	-	-
Integrated Crop Management	-	-	-	-	-
	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-
	-	-	-	-	-
Small Scale Income Generation Enterprises	-	-	-	-	-
	-	-	-	-	-
Weed Management	-	-	-	-	-
	-	-	-	-	-
Resource Conservation Technology	-	-	-	-	-
	-	-	-	-	-
Farm Machineries	-	-	-	-	-
	-	-	-	-	-
Integrated Farming System	-	-	-	-	-
	-	-	-	-	-
Seed / Plant production	-	-	-	-	-
	-	-	-	-	-
Value addition	-	-	-	-	-
	-	-	-	-	-
Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-

Storage Technique	-	-	-	-
	-	-	-	-
Mushroom cultivation	-	-	-	-
	-	-	-	-
Total			10	10
				05

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

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

Drudgery Reduction	-	-	-	-	-
	-	-	-	-	-
Storage Technique	-	-	-	-	-
	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-
	-	-	-	-	-
Cropping Systems	-	-	-	-	-
Farm Mechanization	-	-	-	-	-
Others, Pl specify	-	-	-	-	-
Total	-	-	-	-	-

4.B.3. Technologies assessed under Livestock : NIL

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

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

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

4.B.5. Technologies assessed under various enterprises by KVKs : NIL

Sl.	Thematic areas	Name of the enterprise	Name of technology(s)	No. of trials	No. of locations
1	Drudgery reduction	-	-	-	-
2	Entrepreneurship Development	-	-	-	-
3	Health and nutrition	-	-	-	-
4	Processing and value addition	-	-	-	-
5	Energy conservation	-	-	-	-
6	Small-scale income generation	-	-	-	-
7	Storage techniques	-	-	-	-
8	Household food security	-	-	-	-
9	Organic farming	-	-	-	-
10	Agroforestry management	-	-	-	-
11	Mechanization	-	-	-	-
12	Resource conservation technology	-	-	-	-
13	Value Addition	-	-	-	-
14	Others, pl. specify	-	-	-	-

4.B.6. Technologies assessed under various enterprises for women empowerment : NIL

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

4.C1.Results of Technologies Assessed

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
Cereals	Irrigated	Increased soil salinity (4 – 10 dS/m) in TBP command area from 20,000 ha to 96,000 ha Yield reduction by 15-20 %	Assessment of different salt tolerant paddy varieties for enhancing productivity in saline soils	5	TO1: BPT 5204/Gangavathi sona	UAS, Raichur			Continued			
					TO2: GNV - 1109	UAS, Raichur						
					TO3: Nellore Sona (NLR3041)	PJTSAU						
Oilseeds	Irrigated	Lack of awareness on high yielding, drought tolerant & High oil content varieties	Assessment of Groundnut varieties for higher produ	5	TO1: TMV-2	TNAU, Coimbatore			Continued			
					TO2: G-2-52	UAS, Dharwad						
					TO3: KDG-128	UAS, Raichur						
					TO4: Kadiri lepakshi 1812	ANGRAU, AP						

4. C2. Feedback on technologies assessed: NIL

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

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

1. Title of Technology Assessed
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 and feedback received
6. Feedback on usefulness and constraints of technology

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	Gross Return Rs. / unit	Net Return Rs. / unit	BC Ratio (Gross income/ Gross Cost)
1	2	3	4	5	6	7	8	9	10	11	12	13
-	-	-	-	-						-		
-	-	-	-	-						-		

4. D2. Feedback on technologies refined : NIL

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

4.D.2. Details of Technologies refined: NIL

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

PART V - FRONTLINE DEMONSTRATIONS

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													
		Rainfeed	Kharif	Sun flower	RSFH-1887	-	Weed management	Demonstration of new herbicide molecule in Sunflower crop	4	4	3	7	8	2
		Irrigated	Kharif	Ground nut	G-2-52	-	IPDM	Demonstration of BBF and IPDM in Groundnut crop for enhancing Yield	4	4	2	8	9	1
2	Pulses													
		Rainfeed	Rabi	Bengalgram	Local	-	IDM	Management of dry root rot and wilt complex in Bengalgram	4	4	2	8	9	1
3	Cereals													
		Irrigated	Kharif	Paddy	GGV-05-01	-	ICM	Demonstration of Site specific nutrient management in paddy	4	4	5	5	7	3
		Irrigated	Kharif	Paddy	BPT-5204	-	ICM	Maximization of paddy Yield by modified dosage of NPK fertilizer	4	4	4	6	6	4
		Irrigated	Kharif	Paddy	RNR-15048	-	Reduced cost of cultivation and less usage of water	Demonstration of organic nutrient management in DSR	4	4	4	6	6	4
		Irrigated	Kharif	Paddy	BPT-5204	-	Nano technology	Demonstration of Nano-Nitrogen and Nano Zinc for enhancing the productivity and profitability in Paddy	4	4	3	7	8	2

		Irrigated	Kharif	Paddy	RNR-15048	-	Weed management	Demonstration of weed management in Paddy	4	4	3	7	7	3
		Irrigated	Kharif	Paddy	RNR-15048		Nutrient management	Demonstration of LCC for real time nitrogen management in Paddy	4	4	2	18	18	2
		Irrigated	Kharif	Paddy	RNR-15048	-	Water management	Demonstration of Water Saving Technique : Alternate Wetting & Drying (AWD) in Paddy	4	4	5	15	18	2
		Irrigated	Kharif	Paddy	RNR-15048	-	High yielding variety	Demonstration of Paddy variety RNR-15048 for better quality	4	4	2	8	9	1
		Irrigated	Kharif	Paddy	BPT-5204	-	IPM	Demonstration of Integrated Management of Rice gall midge to increase productivity	4	4	2	8	8	2
4	Millets													
		Rainfed	Kharif	Proso millet	HB-1	-	High yielding variety	Demonstration of High Yielding Proso millet Variety HB-1	4	4	3	7	8	2
		Rainfed	Kharif	Little millet	HS-1	-	High yielding variety	Demonstration of High Yielding Little millet Variety HS-1	4	4	2	8	8	2
		Rainfed	Kharif	Sorghum	GS-23	-	High yielding variety	Demonstration of High Yielding Sorghum variety GS-23	4	4	3	7	8	2
		Rainfed	Kharif	Brown top millet	HBr-2	-	High yielding variety	Demonstration of High Yielding Browntop millet Variety HBr-2	4	4	2	8	9	1
5	Vegetables													
		Irrigated	Rabi/summer	Ridge gourd	Arka prasanna	-	High yielding variety	Demonstration of high yielding Ridge-gourd	10	05	-	-	-	-

								hybrid Arka Prasanna						
		Irrigated	Kharif/Rabi	Vegetables	Nutri garden Kit	-	Nutrition garden	Demonstration of Nutri-garden for year round nutrition security among farm families	30	30	8	22	30	-
		Irrigated	Kharif/Rabi	Vegetables	Nutri garden Kit	-	Terrace garden	Demonstration of terrace garden for livelihood security	30	30	6	24	30	-
6	Flowers													
		Irrigated	Kharif	China aster	Arka Archana	-	Introduction of new variety	Introduction of new china aster variety Arka Archana for increasing income of farmers	4	4	3	7	9	1
		Irrigated	Kharif	Marigold	Arka Abhi	-	High yielding variety	Demonstration of High yielding Marigold variety Arka Abhi	1.2	1.2	1	4	5	-
7	Ornamental			-	-	-	-		-	-		-	-	-
					-	-	-		-	-		-	-	-
8	Fruit													
		Irrigated	Kharif/Rabi	Acid lime	kagazi	-		Demonstration of ICM in acid lime to enhance the yield	4	4	1	9	8	2
		Irrigated	Rabi/summer	Guava	Thiwan pink		ICM	Management of wilt complex in guava	4	4	2	8	8	2
9	Spices and condiments	-		-	-		-		-	-	-	-	-	-
10	Commercial	-		-	-		-		-	-	-	-	-	-
11	Medicinal and aromatic	-		-	-		-		-	-	-	-	-	-
12	Fodder	-		-	-		-		-	-	-	-	-	-

		Irrigated	Kharif	Maize	-	Hybrid	Low cost feed	Demonstration of Low Cost Feed Resource- 'Maize Cob' As Feed	-	-	-	-	-	-
		-	-	silage	-	-	-	Demonstration on Silage preparation for stall fed sheep and Goat	10 Demo	10 Demo	5	5	8	2
13	Plantation	-		-	-		-	-	-	-	-	-	-	-
14	Fibre	-		-	-		-	-	-	-	-	-	-	-
15	Dairy													
		-	-	Buffaloes	-		Integrated Dairy Management	Demonstration of different approaches for Thermal Stress Management In Lactating Buffaloes	-	-	2	8	10	-
16	Poultry													
		-	-	layer	-	-	Enhancement of reproductive performance of poultry	Demonstration of red Spectrum Of Light On Reproductive Performances In Poultry Layer Under Normal Management Practices	-	-	2	8	5	5
17	Rabbitry	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Piggery	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Sheep and goat	-		-	-		-	-	-	-	-	-	-	-
20	Duckery	-		-	-		-	-	-	-	-	-	-	-

21	Common carps	-		-	-		-	-	-	-	-	-	-	-
22	Mussels	-		-	-		-	-	-	-	-	-	-	-
23	Ornamental fishes	-		-	-		-	-	-	-	-	-	-	-
24	Oyster mushroom	-		-	-		-	-	-	-	-	-	-	-
25	Button mushroom	-		-	-		-	-	-	-	-	-	-	-
26	Vermicompost	-		-	-		-	-	-	-	-	-	-	-
27	Sericulture	-		-	-		-	-	-	-	-	-	-	-
28	Apiculture	-	-	-	-		-	-	-	-	-	-	-	-
29	Implements													
		-	-	Fertilizer feeder	-	-	Drudgery reduction	Introduction of Portable Fertilizer feeder equipment for uniform application & drudgery reduction	03	02	-	-	-	-
30	Safe storage practices	-	-	Super grain bags	-	-	Safe storage practices	Demonstration of Super Grain Bags-For storage of food grains and seeds for enhancing shelf life	40 bags	40bags	2	8	9	1
31	Fisheries	irrigated	kharif	Fish	Male tilapia	-	Fish farming	Demonstration of fast growing, short duration and high value all male tilapia fish in farm	5 demo	-	1	4	2	3

	Management of dry root rot and wilt complex in Bengalgram	Local	-	Rabi	10	4	12.97	11.23	12.10	10.63	13.82	54,903	33,657	2.58	47335	24901	2.11
Cereals	Demonstration of Site specific nutrient management in paddy	GGV-05-01		Kharif	10	4	68.5	79.0	75.0	700	7.14	135000	70000	2.07	126000	70000	1.80
	Maximization of paddy Yield by modified dosage of NPK fertilizer	BPT-5204		Kharif	10	4	70.0	82.5	78.5	72.0	9.02	141300	67300	1.90	129600	59600	1.85
	Demonstration of organic nutrient management in DSR	RNR-15048		Kharif	10	4	39.5	51.0	46.35	71.0	-53.1	116250	66250	2.32	127800	57800	1.82
	Demonstration of Nano-Nitrogen and Nano Zinc for enhancing the productivity and profitability in Paddy	BPT-5204		Kharif	10	4	68.0	72.5	71.0	69.0	2.89	127800	62800	1.96	124200	54200	1.77
	Demonstration of weed management in Paddy	RNR-15048		Kharif	10	4	68.5	72.5	70.75	66.5	6.39	141500	73500	2.08	133000	63000	1.90
	Demonstration of LCC for real time nitrogen management in Paddy	RNR-15048		Kharif	20	4	78.0	85.0	82.0	76.12	7.72	147600	82600	2.27	137016	67016	1.95
	Demonstration of Water Saving Technique : Alternate Wetting & Drying (AWD) in Paddy	RNR-15048		Kharif	10	4	81.0	89.0	86.0	76.3	12.71	154800	89800	2.38	137340	67340	1.96
	Demonstration of Paddy variety RNR-15048 for better quality	RNR-15048		Kharif	10	4	61.2	65.0	63.2	75.1	-15.84	139040	79040	2.31	150200	80200	2.18
	Demonstration of Integrated Management of Rice gall midge to increase productivity	BPT-5204		Kharif	10	4	71.0	61.5	69.26	65.34	5.99	124668	69668	2.26	117612	52612	1.80

Millets	Demonstration of High Yielding Proso millet Variety HB-1	HB-1		Kharif	10	4	23.2	21.8	22.5	19.4	15.97	45,000	32,000	3.46	38,800	25,800	2.98
	Demonstration of High Yielding Little millet Variety HS-1	HS-1		Kharif	10	4	15.1	12.9	14.00	12.00	16.66	30,800	17,800	2.36	26,400	13,400	2.03
	Demonstration of High Yielding Sorghum variety GS-23	GS-23		Kharif	10	4	16.9	14.1	15.5	13.5	14.81	46,500	32,500	3.32	40,500	26,500	2.89
	Demonstration of High Yielding Browntop millet Variety HBr-2	HBr-2		Kharif	10	4	24.1	21.3	22.7	18.5	22.7	36,320	23,320	2.79	29,600	16,600	2.27
Vegetables	Demonstration of high yielding Ridge-gaurd hybrid Arka Prasanna	Arka prasanna		Rabi/summer	5	2	Continued										
	Demonstration of Nutri-garden for year round nutrition security among farm families	Nutri garden Kit		Kharif/Rabi	30		Continued										
	Demonstration of terrace garden for livelihood security	Nutri garden Kit		Kharif/Rabi	30		Continued										
2020-21	Demonstration of Nutri-garden for year round nutrition security among farm families	Nutri garden Kit		Kharif/Rabi	30												
Flowers	Introduction of new china aster variety Arka Archana for increasing income of farmers	Arka Archana		Kharif	10	4	Vitiated due to low germination percent										
	Demonstration of High yielding Marigold variety Arka Abhi	Arka Abhi		Kharif	5	1.2	99.7	92.7	96.2	69.9	37.62	4,81,000	3,68,450	4.27	3,49,500	2,30,900	2.94
2020-21	Demonstration of tuberose variety Arka Prajwal for higher productivity	Arka Prajwal		Kharif	5	1.2	41.87	40.13	41.00	33.67	21.78	3,45,000	1,14,867	3.00	2,70,266	1,06,933	2.52
Ornamental																	
Fruit	Demonstration of ICM in acid lime to enhance the yield	kagazi		Kharif/Rabi	10	4	Continued										

	Management of wilt complex in guava	Thiwan pink		Rabi/summer	10	4	18.86	13.64	16.25	13.75	18.18	3,15,000	2,25,000	3.5	2,75,000	1,45,000	2.11
Spices and condiments	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Commercial	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Fibre crops like cotton	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Medicinal and aromatic	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Fodder	Demonstration of Low Cost Feed Resource- 'Maize Cob' As Feed	Maize	-	--	2	-											
	Demonstration of quality silage making in stall fed sheep/goat units for better weight gain	Silage		-	10	-	-	-	29.83	23.33	21.63	7456	1832	1.30	5833	1032	1.19
Plantation	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Fibre	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
Safe storage practices	Demonstration of Super Grain Bags- For storage of food grains and seeds for enhancing shelf life	Super grain bags		-	10	-	Continued										
Safe storage practices (2020-21)	Demonstration of Super Grain Bags- For storage of food grains and seeds for enhancing shelf life	Super grain bags		-	30	-	Results mentioned below										
Functional clothing 2020-21	Demonstration of functional clothing for agricultural activities	Protective clothing kit		Rabi/Summer	40	-	Results mentioned below										

Green manure	Green manure seed production (Diancha and Pillepesaru) in paddy fallows	Diancha and Pillepesaru		Summer	10	4	Continued										

* 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.)

Title of the Technology	Data on other parameters in relation to technology demonstrated		
	Parameter with unit	Demo	Check
Demonstration of new herbicide molecule in Sunflower crop	Weed count	9.0	16.0
	Weed dry weight	12.0	20.0
	WCE (%)	77.0	
Demonstration of Site specific nutrient management in paddy	pH	8.13	8.17
	EC (dS/m)	3.42	3.49
	OC (%)	0.38	0.41
	Av. N (kg/ha)	112.56	122.11
	Av. P ₂ O ₅ (kg/ha)	62.12	64.56
	Av. K ₂ O (kg/ha)	428.66	442.00
Maximization of paddy Yield by modified dosage of NPK fertilizer	pH	7.80	8.11
	EC (dS/m)	2.23	3.23
	OC (%)	0.45	0.48
	Av. N (kg/ha)	137.5	144.88
	Av. P ₂ O ₅ (kg/ha)	58.42	65.00
	Av. K ₂ O (kg/ha)	423.11	438.11
Demonstration of organic nutrient management in DSR	pH	8.13	8.15
	EC (dS/m)	2.05	2.11
	OC (%)	0.76	0.78
	Av. N (kg/ha)	145.44	152.11
	Av. P ₂ O ₅ (kg/ha)	68.80	75.00
	Av. K ₂ O (kg/ha)	444.11	450.11
Demonstration of Nano-Nitrogen and Nano Zinc for enhancing the productivity and profitability in Paddy	pH	8.23	8.25
	EC (dS/m)	1.88	2.63
	OC (%)	0.29	0.30
	Av. N (kg/ha)	138.56	145.00

	Av. P ₂ O ₅ (kg/ha)	61.00	68.11
	Av. K ₂ O (kg/ha)	411.80	426.88
	Zn (ppm)	0.42	0.58
Demonstration of weed management in Paddy	Weed count	12.0	20.0
	Weed dry weight	15.0	25.0
	WCE (%)	66.6	
Demonstration of LCC for real time nitrogen management in Paddy	Plant height (cms)	100	97.4
	No of effective tillers/m ²	720	685
	Length of panicle	22.8	21.7
	No of hoppers/hill	7.85	10.5
	% Nitrogen saved	26.30	
Demonstration of Water Saving Technique : Alternate Wetting & Drying (AWD) in Paddy	No. of irrigation	20	63
	Plant height cm	99.2	96.7
	No. of effective tillers/hill	70	63
Demonstration of Paddy variety RNR-15048 for better quality	Plant height (cm)	106.8	100.1
	No. of effective tillers/ hill	630	660
	No. of Hoppers/hill	8.14	10
	% Lodging	40	8
Demonstration of Integrated Management of Rice gall midge to increase productivity	No. of galls per hill	1.56	6.36
Demonstration of High Yielding Proso millet Variety HB-1	Days to maturity	68	70
	No. of effective tillers	07	05
Demonstration of High Yielding Little millet Variety HS-1	Plant height (cm)	115.4	110.2
	Days to maturity	90	85
	No. of effective tillers per plant	5.0	3.0
Demonstration of High Yielding Sorghum variety GS-23	Plant height (cm)	155.4	152.2
	PDI	9.5	15.4
Demonstration of High Yielding Browntop millet Variety HBr-2	Straw yield (q/ha)	15.3	13.8
	No. of tillers per plant	6.5	5.5
Demonstration of High yielding Marigold variety Arka Abhi	No. of flowers per plant	65.7	44.2
	Flower weight per plant (kg)	2.11	1.26
Demonstration of tuberos variety Arka Prajwal for higher productivity	No. of flowers per spike	44.2	33.8
	Flower weight per plant (g)	7.2	4.1
Demonstration of IDM in chickpea to minimize wilt diseases	Wilt PDI	5.81	16.86
	Rust PDI	8.18	11.64
	% Pod damage	3.12	6.39

Demonstration of Nutri-farms for year round nutrition security among farm families (2020-21)
General information of the families who adopted nutri-garden (N=30)

Sl.No.	Particulars	Categories	Numbers
1	Categories to which beneficiaries belonged	SC	4

		ST	5
		Others	21
2	Age groups to which beneficiaries belongs	20-30 years	13
		30-40 years	12
		40-50 years	5
3	Occupation of the beneficiaries	Farming	30
		House wives	--
		Others	--
4	Type of family (Av. of 30 FLD Farm Families)	Nuclear	6
		Joint	24
5	Education status of the farm women	Primary education	19
		Secondary education	6
		Illiterate	5
6	Average monthly income of the families		Rs. 5900
7	Expenditure pattern (Rupees)	Food	1825
		Education	283
		Health and medicine	646
		Fruits and vegetables	764
		Others	2382
8	Experience in farming/nutri-garden	Less than 5 years	--
		More than 5 years	30
		Never involved in farming	--
9	Purpose of nutrition garden	Social or recreational	--
		Family health and Financial benefits	30
10	Average Man hours in nutri-garden		1.6 hr.

Average production of vegetables of farm families (2020-21)

Sl. No.	Name of the vegetables	Vegetables production (kgs)

1	Methi	4.00
2	Spinach	5.00
3	Amaranthus	4.50
4	Coriander	5.00
5	Dill	8.00
6	Spring roll	2.00
Roots & tubes		
7	Onion	8.00
8	Radish	5.00
9	Carrot	2.00
10	Beet root	5.00
Other vegetables		
11	Ridge gouard	25.00
12	Sponge gouard	15.00
13	Pumpkin	15.00
14	Ladies finger	5.00
15	Tomato	20.00
16	Bitter gouard	12.00
17	Brinjal	20.00
18	Cluster bean	8.00
19	Cauliflower	5.00
20	Cucumber	15.00
Spices		
21	Chilli	2.00
Pulses		
22	Peas	1.00
23	Pigeon pea (Tender)	5.00

	Total	196.0
--	-------	-------

Change occurrence by intervention of nutrition garden in rural families

Particulars	Production (kgs)	Purchase (kgs)	Distribution (kgs)	Consumption (kgs)
Before intervention	25	85	--	110
After intervention	196	21	10	175
Per cent change	-	75.3%	100%	65.0%

Impact of nutrition garden intervention on food intake of farm women

Food groups	RDA (g)	Before		After		% change (Before and after)
		Mean	% Adequacy	Mean	% Adequacy	
Cereals and millets	330	285	86.36	320	97.0	12.28
Pulses	75	40	53.3	60	80.0	33.33
Meat, egg & fish	150	50	33.3	80	53.3	60.0
Milk & Milk products	500	150	30.0	200	40.0	33.33
Roots and tubers	200	55	27.5	120	62.5	118.2
Green leafy vegetables	100	45	45.0	85	85.0	88.8
Other vegetables	200	80	40.0	130	65.0	62.5
Fruits	100	40	40.0	75	75.0	87.5
Sugar	30	30	100	30	100	--
Fat	25	25	100	25	100	--

Demonstration of Super grain bags-for storage of seeds and food grains (2020-21)

Details	Redgram		Sorghum		Rice	
	Demo	check	Demo	check	Demo	check
Egg load /kg	0.20	6.12	1.12	8.31	0.92	8.31
No of live insects/kg	0	5.02	0	7.12	0	7.50
Initial weight of grains (Kg)	50	50	50	50	50	50
Final weight of grains (Kg)	49.35	44.81	49.45	45.12	49.31	45.25
Weight loss of grains (kg)	0.65	5.18	0.55	4.88	0.69	4.75
Weight loss of grains (%)	1.30	13.30	1.10	9.76	1.38	9.50

Demonstration of functional clothing for agricultural activities (2020-21)

Existing practices of the respondents during harvesting of Bengalgram (n=40)

Statements	Always	Sometimes	Never	WMS
Bare hand harvesting	32 (80.00)	8 (20.00)	-	1.8
Covering hands/feet with old cloths	19 (47.5)	10 (25)	11(27.5)	1.2
Polyethene cover	5 (12.5)	12 (30)	23(57.5)	0.55
No mask/Covering the nose and mouth with cloth	33 (82.5)	7 (17.5)	-	1.65
Wearing shirt/over coat	25 (62.5)	10 (25)	5(12.5)	1.5

Problems being reported by respondents during harvesting of bengalgram (n=40)

Statements	Always	Sometimes	Never	WMS
Burning hand and feet	25 (62.5)	15 (37.5)	-	1.6
Rashes on hands	31 (77.5)	9 (22.5)	-	1.7
Difficulty in progressive harvesting	32 (80)	8 (20)	-	1.8
Difficulty in consuming food	29 (72.5)	10 (25)	1 (2.5)	1.7
Difficulty in performing household chores	26 (65)	10 (25)	4 (10)	1.5

Opinion of the respondents after wearing protective clothing (n=40)

Statements	Always	Sometimes	Never	WMS
No burning sensation	40 (100)	-	-	2.0

No rashes on hands	40 (100)	-	-	2.0
Comfortable to carryout household chores	36 (90)	5 (15)	-	1.9
Reduced contact with mallic acid and facilitates consumption of food	33 (82.5)	7 (17.5)	-	2.0
No breathing difficulties	36 (90.0)	4 (10.0)	-	1.9
No allergies due to dust	34 (85)	6 (15)	-	1.85

Always:2, Sometimes:1, Never:0, WMS: Weighted Mean Score, Values in parenthesis indicate percentages

5. B2. Feedback on technologies demonstrated

Name of technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of new herbicide molecule in Sunflower crop	Less labour required and higher weed control efficiency	-
Demonstration of Site specific nutrient management in paddy	Higher yield, net return and benefit cost ratio due to balanced application of fertilizer	-
Maximization of paddy Yield by modified dosage of NPK fertilizer	Reduced cost of cultivation and higher net returns	-
Demonstration of organic nutrient management in DSR	Rejection of rice is less due to less chemical residues for export and sustain the soil fertility	-
Demonstration of Nano-Nitrogen and Nano Zinc for enhancing the productivity and profitability in Paddy	Low cost, increase the efficiency of N use by foliar application	-
Demonstration of weed management in Paddy	Higher yield and net returns	Timely availability of labours
Demonstration of LCC for real time nitrogen management in Paddy	Less fertilizer requirement, less incidence of pest and diseases and reduced cost of cultivation with higher yield	-
Demonstration of Water Saving Technique : Alternate Wetting & Drying (AWD) in Paddy	Less water requirement, less incidence of pest and diseases and reduced cost of cultivation with higher yield	-
Demonstration of Paddy variety RNR-15048 for better quality	Slender fine grains fetches high market price and no lodging Low yielding	-
Demonstration of Integrated Management of Rice gall midge to increase productivity	Saving of cost of cultivation, less use of chemicals	Less adoptability
Demonstration of High Yielding Proso millet Variety HB-1	Higher income, Higher yield, short duration and more no. of tillers	-
Demonstration of High Yielding Little millet Variety HS-1	Higher income, Higher yield, short duration and more no. of tillers	-
Demonstration of High Yielding Sorghum variety GS-23	Higher income, Higher yield, Resistant to pest and disease	-
Demonstration of High Yielding Browntop millet Variety HBr-2	High yielding and higher net returns	-
Demonstration of High yielding Marigold variety Arka Abhi	More no. of flowers per plant with bigger size	Difficult to get the seeds/planting material
Demonstration of tuberos variety Arka Prajwal for higher productivity	More no. of flower per spike with increased weight Development of smooth petal variety is needed	Farmer has to visit long way to IIHR to purchase the bulbs
Demonstration of Nutri-farms for year round nutrition security among farm families	Year round availability of fresh and pesticide free vegetables. Children's actively involved in kitchen garden activity. Children's and teenage developed positive attitude towards healthy food choices. Kitchen garden increased the	-

	food and nutrient adequacy	
. Demonstration of Super grain bags-for storage of seeds and food grains	Increased in the storage life by 6 months and decreased loss by 10 to 12% by disease and pest	-
Demonstration of functional clothing for agricultural activities	Decreased in the health hazards such as itching, rashes and allergies. Easy to carry out the farm activities. Increased labour work efficiency	-

Sheep and goat (2020-21)	Demonstration of quality silage making in stall fed sheep/goat units for better weight gain	Kenguri	20	-	Weight gain (kg)	30.8	29.50	30.15	22.41	34.53	7537	2038	1.31	5603	1000	1.17
2021-22	Demonstrations of Quality Silage Making for weight gain in Stall Fed Sheep/Goat	-	10	-	Weight gain (kg)	-	-	29.83	23.33	21.63	7456	1832	1.30	5833	1032	1.19
Duckery																
Others																

* 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
	Cow	Buffalo	
Conception rate % (After 3 months)	90	60	

5. B4. Feedback on livestock technologies demonstrated

Name of livestock technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of Integrated dairy management for better health and productive performance in cow	Increased milk yield, Fat % and SNF Less incidence of mastitis	-
Demonstration of impregnated nano fibres for injection of oysters in repeat breeding cow/buffalo	High percentage of conception rate	-
Low cost egg incubator and hatchery to enhance income and food security to self help groups	Increased percentage of hatchability	Redesigning of egg incubator to accommodate more number of egg per batch
Demonstration of quality silage making in stall fed sheep/goat units for better weight gain	Good palatability of the silage, Increased body weight of sheep/goat	-

5.B.5. Fisheries

Type of Breed	Name of the technology demonstrated	Breed	No. of Demo	Units/ Area (m ²)	Name of the parameter with unit	Yield (q/ha)			% Increase	*Economics of demonstration (Rs./unit)			*Economics of check (Rs./unit)			
						Demo		Check if any		Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR	
						H	L									A
Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mussels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ornamental fishes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others (pl.specify) Tilapia 2020-21	Demonstration of fast growing, short duration and high value all male tilapia fish in farm pond	Tilapia	05	-	Av. weight gain @ 8 months (gm)	-	-	590	-	-	113280	75898	1.49	-	-	-
Tilapia 2021-22	Demonstration of fast growing, short duration and high value all male tilapia fish in farm ponds	Tilapia	05	-	Continued											

* 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.) NIL

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

5. B6. Feedback on fisheries technologies demonstrated

Name of fisheries technology demonstrated	Useful characters as well as constraints of technology	Socio-economic as well as administrative constraints for its adoption
Demonstration of fast growing, short duration and high value all male tilapia fish in farm ponds	Good survivability, fetch more price Local market value is same as Indian major carps	-

5.B.7. Other enterprises : NIL

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)	Nutrition garden															

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

** BCR= Gross Return/Gross Cost

H-High L-Low, A-Average

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

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

5. B8. Feedback on enterprises demonstrated

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

5.B.9. Farm implements and machinery

Name of the implement	Cost of the implement in Rs.	Name of the technology demonstrated	No. of Demo	Area covered under demo in ha	Name of the operation with unit	Labour requirement in Mandays		% save	Savings in labour (Rs./ha)	*Economics of demonstration (Rs./ha)			*Economics of check (Rs./ha)		
						Demo	Check			Gross Return	Net Return	** BCR	Gross Return	Net Return	** BCR
Fertilizer feeder	3200	Safe practices of pesticide & fertilizer application	02	-											

Continued

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

** BCR= Gross Return/Gross Cost

Sunflower	Demonstration of new herbicide molecule in Sunflower crop	RSFH-1887	10	4	21	11.5	17	15	13.33	102000	81000	4.85	90000	65000	3.60
Groundnut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Soybean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Greengram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blackgram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bengalgram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redgram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vegetable crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bottle gourd	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capsicum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tomato	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brinjal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Okra	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potato	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sugarcane	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coconut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fodder crops	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maize (Fodder)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sorghum (Fodder)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	10	4	21	11.5	17	15	13.33	102000	81000	4.85	90000	65000	3.60

H-High L-Low, A-Average

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

Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
Mushroom production	1	28	3	31	7	2	9	35	5	40
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	8	220	189	409	36	30	66	256	219	475

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	-	-	-	-	-	-	-	-	-	-
Women and Child care	2	-	78	78	-	9	9	-	87	87
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	2	112	10	122	28	8	36	140	18	158
Household food security	-	-	-	-	-	-	-	-	-	-
Any other (pl.specify)	-	-	-	-	-	-	-	-	-	-
Total	4	112	88	200	28	17	45	140	105	245

7.G. Sponsored training programmes conducted -Nil

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management	-	-	-	-	-	-	-	-	-	-	-
1.a.	Increasing production and productivity of crops	-	-	-	-	-	-	-	-	-	-	-
1.b.	Commercial production of vegetables	-	-	-	-	-	-	-	-	-	-	-
2	Production and value addition	-	-	-	-	-	-	-	-	-	-	-
2.a.	Fruit Plants	-	-	-	-	-	-	-	-	-	-	-
2.b.	Ornamental plants	-	-	-	-	-	-	-	-	-	-	-
2.c.	Spices crops	-	-	-	-	-	-	-	-	-	-	-
3.	Soil health and fertility management	-	-	-	-	-	-	-	-	-	-	-
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.
- 2.
- 3.

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

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

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

S. No.	Name of Job Role	Date of Start	Date of Close	Total Participants	No. of Participants									Date of Assessment	No of Participants passed assessment
					General			SC/ST			Grand Total				
					Male	Female	Total	Male	Female	Total	Male	Female	Total		
1	ASCI- Small poultry farmer	26.09.2021	27.10.2021	25	19	2	25	4	2	6	19	6	25	08.12.2021	23

PART VIII – EXTENSION ACTIVITIES**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
Advisory services	-	-	-	-	-	-	-	-	-	547
Farmers visit to KVKs	-	311	01	312	6	-	6	317	01	318
Lectures delivered as resource persons	60	1136	64	1200	587	13	600	1723	77	1800
Diagnostic Visits	09	153	7	160	15	2	17	168	9	178
Field Days	10	296	2	298	14	-	14	310	02	312
Group discussions/ meetings	04	112	3	115	19	4	23	131	07	138
Kisan Gosthies	-	-	-	-	-	-	-	-	-	-
Film Shows	03	79	4	83	12	5	17	91	9	100
Self help group meetings	02	-	38	38	-	6	6	-	44	44
Mahila mandals meetings	-	-	-	-	-	-	-	-	-	-
Kisan Melas	-	-	-	-	-	-	-	-	-	-
Exhibitions	1	-	-	-	-	-	-	-	-	-
Scientist visit to farmers fields	57	-	-	-	-	-	-	-	-	117
Soil health camps	-	-	-	-	-	-	-	-	-	-
Animal health camps	3	-	-	-	-	-	-	-	-	77
Plant health camps	-	-	-	-	-	-	-	-	-	-
Farm Science Club meetings	-	-	-	-	-	-	-	-	-	-
Ex-trainees Sammelans	-	-	-	-	-	-	-	-	-	-
Farmers seminars	-	-	-	-	-	-	-	-	-	-
Workshops	-	-	-	-	-	-	-	-	-	-
Method Demonstrations	07	196	3	199	14	-	14	210	3	213
Celebration of important days	06	258	12	270	48	05	53	306	17	323
Special day celebrations	06	267	13	280	67	13	80	334	26	360
Exposure visits	04	119	05	124	08	06	14	127	12	138
Others, Please specify	-	-	-	-	-	-	-	-	-	-
Total	172	2616	151	2767	784	54	838	3400	206	3800

8.2 Other extension activities like print and electronic media etc.

Sl. No.	Type of media/activity	Number of activities/Number
1	Popular articles	02
2	Newspaper coverage	68
3	Extension Literature	01
4	Radio Talks	07
5	TV Talks	06
6	CD/DVD/Video clips	-
7	Animal health camps (no. of animal treated)	03
8	Others, please specify	-
	Total	87

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIAL

9.A. Production of seeds by the KVKs

Crop category	Name of the crop	Name of the Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Paddy	GGV-05-01	392	323400	112
Oilseeds	-	-	-	-	
-	-	-	-	-	
Commercial crops	-	-	-	-	
Vegetables	-	-	-	-	
Flower crops	-	-	-	-	
Spices	-	-	-	-	
Fodder crop seeds	-	-	-	-	
Fiber crops	-	-	-	-	
Forest Species	-	-	-	-	
Others (specify)	-	-	-	-	
Total			392	323400	112

9.B. Production of hybrid seeds by the KVKs : NIL

Crop category	Name of crop	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
-	-	-	-	-	-
-	-	-	-	-	-
Total					

9.C. Production of planting material by the KVKs

Crop category	Name of the crop	Variety	Number	Value (Rs.)	Number of farmers to whom provided
Commercial					
Vegetable seedlings	Drumstick	Bhagya	33	330	03
Fruits	Mango	Baneshan	277	13850	05
	Sapota	Kalipati	80	3200	02
Ornamental plants	-	-	185	11200	15
Medicinal and Aromatic					
Plantation					
Spices	Curryleaf	Local	468	4680	05
Tuber					
Fodder crop saplings					
Forest Species	Neem	-	5	50	01
Others(specify)					
Total			1048	33310	31

9.D. Production of hybrid planting materials by the KVKs : NIL

Crop category	Name of crop	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
-	-	-	-	-	-
-					
Total					

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity (q)	Value (Rs.)	Number of farmers to whom provided
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	-	-	-	-
Bio Agents	-	-	-	-
Others (specify)	Vermicompost	32.00	19200	13
	Vermis	0.47	23500	19
Total		8.7	113700	32

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 (Milk)	-	1494	59769	-
Total		1494	59769	

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

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

(i) KVK Newsletter: Nil

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

(ii) Summary of Literature developed/published

Item	Number
Research papers- International	-
Research papers- National	3
Technical reports	2
Technical bulletins	1
Popular articles - English	
Popular articles – Local language	2
Extension literature	-
Others if any	-

(iii) Details of Literature developed/published

Please provide the details of above publication in the following format:

1. Research articles in journals: Complete citation indicating authors, year of publication, title of publication, journal name, volume and page number in sequence.

Example:

Dinesha, B. L., Sharanagouda Hiregoudar, Udaykumar Nidoni, Ramappa, K. T., Anilkumar Dandekar and **Ravi, M. V.** 2021, Comparison of chitosan based nano-adsorbents for dairy industry wastewater treatment through response surface methodology and artificial neural network models. *Water Science & Technology* | 83.5 | 2021, P: 1250-1264

2. Technical Reports/ bulletins: Authors name, Title of the technical report, name of publishing KVK, number of pages.

Example:

Ravi, M.V., Narayana Rao and Balanagoudar, S.R., 2021-22, Laboratory manual on Problematic soils and waters management. *Published by COA, Raichur, P No. 1-51.*

Mahantesh, M.T and Ravi, M.V. 2021-22, Small poultry farming. *Published by KVK, Gangavathi. P No. 1-57*

3. Popular articles: Authors name, Title of the article, date of publication, Name of the newspaper/magazine, page no.

Kavitha Y.Ullikashi, Ravi M.V., Jyothi R., Raghavendra Yaligar (2020-21) , Arogyadakhani Dragon Hannu. Sukkhibhava, Annadatha-7 (2) : 42-43

Extension literature; Authors name, month and year of publication, Title of extension literature like folders, pamphlets etc., name of publishing KVK, number of pages.

Example:

Ravi Kand Shankar R, (2021) Sodic soil reclamation, No. 20, KVK Koppal, 4p.

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	KVK GANGAVATHI farmers	-
4	Facebook account name	ICAR-Krishi Vigyan Kendra, Gangavathi-Koppal	www.facebook.com/kvkgangavathi
5	Instagram account name		
6	Others if any Youtube channel	ICAR-Krishi Vigyan Kendra, Gangavathi-Koppal	www.youtube.com/channel/UCJ0s0ZN25Kz3VuKOsSec9UA

10.C. Success Stories / Case studies, if any (two/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 : Successful progressive farmer Sri. Basayya S. Hiremath in organic moringa cultivation and its value addition

Background : Shri Basayya Siddalingaihyya Hiremath, a progressive farmer from Gangavathi taluk in Koppal district, holds a B.Sc. (IT) education. His interest in Agriculture made him to leave the IT company in Bengaluru and start organic farming of Drumstick in his own 66 acre farm in Tavaregare village

Interventions : He adopted high-density farming for a large number of saplings in a given area. He is Using the advanced compost needed for organic farming of Drumstick. The farmer is managing water of 66 acre by using drip irrigation system with gravitational force thereby reducing power consumption and he also providing water to the fields by building farm ponds.

Process : He is procuring cow dung required to produce compost from Self-managed Gir, Ongole and Kilar breeds. In addition, vermicomposting and beekeeping sidewalks have been incorporated in his farm and the use of gobar gas left over as soil applicator has been shown to increase soil fertility by increasing the number of microorganisms in the soil. He his owning agricultural equipment, such as tractor, forage cutter, weeder, mechanical sprinkler, and grain processing equipment. The farmer have a polyhouse, solar dryer and a well equipped laboratory for the preparation of various drumstick products. Overall, the farmer has been working on organic farming for 5 years and is working towards managing malnutrition in Koppal district.

Technology: Preparation of moringa powder, pellets and capsules

Output and outcome : He directly exports these products to states such as Gujarat, Tamil Nadu, Maharashtra and Telangana, as well as to outside countries such as France, Germany, Dubai, Dakshinakori, Japan and the USA.


Impact :promoting youth, many young farmers to undertake organic Moringa cultivation through organizing online training programmes, field visits and counseling.

Horizontal Spread: Nearly 8 farmers are cultivating organic moringa crop through the guidance of Sri. Basayya Hiremath

Economic gains : Total annual income is Rs. 1.476 crore

Employment Generation : During harvesting and processing period of 3-4 months nearly 15 peoples get the job.

Photos

<p>Photo</p> 	<p>Photo</p> 
<p>Title: Moringa Processing Unit</p>	<p>Title: Visit of organic farming faculty of UAS, Raichur and KVK, Gangavathi Scientist</p>
<p>Photo</p> 	<p>Photo</p> 
<p>Title: Visit of District Commissioner to the processing Unit</p>	<p>Title: Receiving Krishi Ratna Award by UAS, Raichur</p>

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

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) : NIL

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

10 F. Technology Week celebration: 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

Sl. No.	Name of the Farmer/Scientist	Award/Year	Institution	Major Enterprises/Subject	Farminnovations
1	Sri Maruti Dore, Hulihyder, Tq: Kanakagiri, Dist: Koppal	Best Farmer 2020-21	UHS, Bagalkota	Horticulture crops Fig and organic farming	Water conservation techniques in Fig and Onion cultivation
2	Sri. Veeranagouda Kulkarni, Malakanamaradi, Tq: Gangavathi Dist: Koppal	State level Best IFS farmer 2020-21	Alumini Association, Bengaluru	IFS	Solar pumpset, Organic Banana and lime cultivation
3	Sri. Basayya S. Hiremath, Tq: Gangavathi Dist: Koppal	Krishi Ratna Award 2021-22	UAS, Raichur	Moringa Cultivation	Organic cultivation and value addition in moringa

4	Dr. Raghavendra Yaligar, Scientist (Agril.Entomology)	Best Poster Award 2021-22	NRC, Pomegranate	Integrated Disease management in pomegranate	-
5	Mr. Narappa G. Technical Officer (FM), KVK, GVT	Outstanding farm manager award 2021-22	Holiday Home, Ranchi, Jharkhand	In recognition valuable contributions and achievements	Holiday Home

PART XI – SOIL AND WATER TEST

11.1 Soil and Water Testing Laboratory

A. Status of establishment of Lab :

1. Year of establishment : 2013
2. List of equipments purchased with amount : 164000

Sl. No	Name of the Equipment	Qty.	Cost	Status
1	Details Crew Auger head sign obtaining soil suppres complete with lemmelie lo + peces & Handle	1	3835	Good
2	Details post hold Augush Z for obtaining undreshedule soil samples with one m long pipe & thrith handel	1	3835	Good
3	Details soil Agustube 1nd decton long with 50 cm verticle soil completewith hand	1	6300	Good
4	Alminium moster cum roundshape with lid size 75mm dicr SD MMH	1	13970	Good
5	Aluminium moisture cancrowd shape with lid size 75mm dicr diax 50mm ht	1	7050	Good
6	SE mg Rotary shaker-2 model 22/99 450x450mm, 252 mlx16No	1	41800	Good
7	Deioniser, CA model consists of inbui Hprefilter, contion & anion resinolum conductives metere all housed in trolly mounted method stand, deionized water w how the conductivity of less than 10m/cm	1	22770	Good
8	Wooden stool			
9	Specificatives Single solid door with lods & hore four wheels	1	94000	Good
10	Soiltly drometere	1	19750	Good
11	Double ring inifitrometer With point gaege double ring infiltrmetere made from mild steel shed rolled	1	31450	Good
12	Details high speed stress	1	18800	Good
Total		12	164000	

B. Details of samples analyzed since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	9459	9459	4913	1850200
Water Samples	6542	6542	3349	633700
Plant samples	-	-	-	-
Manure samples	-	-	-	-
Others (specify)	-	-	-	-
Total	16001	16001	8262	2483900

C. Details of samples analyzed during 2021:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	927	927	728	185800
Water Samples	618	618	370	61900
Plant samples				
Manure samples				
Others (specify)				
Total	1545	1545	1098	247700

11.2 Mobile Soil Testing Kit : NIL

A. Date of purchase and current status

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

B. Details of soil samples analyzed during 2021 and since establishment with Mobile Soil Testing Kit: NIL

	During 2020	During 2021	Cumulative progress (Total)
Samples analyzed (No.)	-	-	-
Farmers benefited (No.)	-	-	-
Villages covered (No.)	-	-	-

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

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

11.4 World Soil Health Day celebration

Sl. No.	Farmers participated (No.)	Soil health cards issued (No.)	VIPs (MP/ Minister/MLA attended (No.)	Other Public Representatives participated	Officials participated (No.)	Media coverage (No.)
1	84	20	2	2	6	3

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)
Demonstration of Direct seeded rice	650	60	Rs.43000/ha.	Rs. 60000/ha.
Integrated Farming System	90	40	Rs. 100000/farm family/year	Rs. 150000/farm family/year
Honey bee cultivation	1800	15	Rs. 0.0/ Unit	Rs. 1200000/ Unit
Establishment of Scientific Dairy farms	320	50	Rs.11000 /animal / lactation	Rs. 20000/animal / lactation
Vegetable special micronutrient application in vegetable crops	450	69	Rs. 39,900/ ha.	Rs. 61500/ha.
Demonstration of High yielding Bengalgram variety (JG-11)	286	73	Rs. 29154/ ha.	Rs. 35174 / ha.
Demonstration of Foxtail millet var. DHFt-109-03	150	60	Rs.15000/ha.	Rs. 22000/ha.
Demonstration of Foxtail millet var. HN-46	30	05	Rs. 15000/ha.	Rs. 23000/ha.
Bio-control agent (<i>Trichodurma</i> , <i>psuedomonous</i> , <i>Beauria</i> , <i>paceilomyces</i>)	500	20	Rs. 0.0/ Unit	Rs. 5000/ acre

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)

Technology :

- ICM in Direct Seeded Rice (DSR) method
- Technology: Direct seeding using paddy tractor drawn seed drill, Weedicides and Cycle Weeder for weed management, ICM practices
- Major features: High cost of cultivation, scarcity of labor, water for irrigation, delayed planting, non awareness about use of seed drill
- Relevance to district: Paddy area in Koppal dist is 39000 ha.

Extension activities carried out for spread of technology

Year	Taluk	Area (Acre)	No. of Demos	Training (No. farmers)
2016-17	J.Kalgudi	10	10	65
2017-18	Yeradona	10	10	65

2018-19	Chellur	10	10	150
2019-20	Marali	10	10	80
2020-21	Thimmapur	10	10	60

Other activities for spread of technology:

- Short messages , Field visits , Leaf lets, folders, leading newspaper coverage,
- Tie up with Agril. Dept in spread of technology
- Technical bulletin was published and distributed to farmers

Spread of technology:

This is a new technology to the farmers of Koppal Dist. and farmers are showing interest to adopt the technology. From 2015-16 to 2019-20 , morethan 6500 ha area is under DSR Paddy.

Outcome :

Adoption of ICM in DSR method using tractor drawn seed drill increases the yield 8-9% than conventional practice by saving cost of cultivation around 7000 to 9000 per acre in demonstration field



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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Demonstration of Direct seeded rice	650	60	Rs.43000/ha.	Rs. 60000/ha.
Demonstration of High yielding Bengalgram variety (JG-11)	240	68	Rs.29154/ha.	Rs. 35174/ha.
Vegetable special micronutrient application in vegetable crops	300	60	Rs. 39900/ha.	Rs. 61500/ha.

PART XIII - LINKAGES

13A. Functional linkage with different organizations

Name of organization	Nature of linkage
<ul style="list-style-type: none"> • Karnataka State Dept. of Agriculture (KSDA) • Karnataka State Dept. of Horticulture (KSDH) Dept. of AH & VS, Dept of Women and Child Welfare, ARS, NABARD, NGO (BAIF, Sarvodaya)	Trainings, Demonstration, field days, Joint Diagnostic survey, Awareness campaigns and meetings
<ul style="list-style-type: none"> • Dept. of Information and Broadcasting (AIR, DD-1) and Daily Newspapers like Prajavani, Vijaya Karnataka, Samyukta Karanataka, Deccan Herald, The Hindu and Local Newspapers 	Live phone-in programmes, Radio tips, Press coverage, publicity etc.

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.)

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	SREP			
02	Research projects	-			

03	Training programmes	Training on ICM, IPM, IDM and value addition to millets	08	03	
04	Demonstrations	Method demonstration, seed treatment, soil sampling	03	-	
05	Extension Programmes				
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps		-	-	
	Animal Health Campaigns				
	Others (Pl. specify)	Women's day	--	1	-
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
1.	Technical guidance to FPO	Trainings, Demonstration and Exposure visits.	9.27 lakhs	6.6 lakhs	--

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

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

Fibers									
Spices & Plantation crops									
Floriculture									
Fruits		-							
Vegetables									
Others (specify)									
Tamarind fruit	-	-	-	-	Tamarind fruit	100 kg	-	3000	

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

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

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

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

14E. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January	-	-	Not conducted on campus programmes because of Covid-19 instructions
February	-	-	
March	-	-	
April	-	-	
May	-	-	
June	-	-	

July	-	-	
August	-	-	
September	25	04	-
October	25	26	-
November	-	-	Not conducted on campus programmes because of Covid-19 instructions
December	-	-	

14F. Database management

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

14G. Details on Rain Water Harvesting Structure and micro-irrigation system**(a) Rain Water Harvesting Structure**

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

(b) Micro-irrigation systems

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

PART XV – SPECIAL PROGRAMMES**15.1 Paramparagath Krishi Vikas Yojana (PKVY): NIL**

Sl No.	Name of cluster village	Initial soil fertility status (Average of cluster village)				Facilities created for organic source of	Name of Crops cultivated	Variety	Organic inputs applied including bio-agents and	Yield (q/ha)	Economics	
		Aval. N	Aval. P	Aval. K	OC %						Cost of cultivation	Net returns (Rs/ha)

15.10 SCSP: NIL

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		OFT (No of Technolo giess)	Number of farmers involved			Partici pants in extensi on activiti es (No.)	Produ ction of seed (q)	Produ ction of Planti ng materi al (Num ber in lakh)	Produ ction of Livest ock strains (Num ber in lakh)	Produ ction of fingerl ings (Num ber in lakh)	Testi ng of Soil, water , plant, manu res sampl es (Num ber)
No. of Trainings/ Demos	No. of Farmers	No. of Trainings/ Demos	No. of Women Farmers	No. of Trainings/ Demos	No. of You ths	No. of Trainings/ Demos	No. of Ext. Per son		On - far m tri als	Front line demo s	Mob ile agro-adv isory to farm ers						
-	-	-	-	-	-	-	-	-	-	--	-	-	-	-	-	-	-

15.11 NARI: NIL

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

15.12 KVK Portal

No. of Events added by KVKs	No. of Facilities added by KVKs	Filled Report on Package of Practices (Y/N)				Filled Profile Report (Y/N)							
		Crop	Livestock	Fisheries	Horticulture	Employees	Posts	Finance	Soil Health Cards	Appliances	Crops	Resources	Fish
230	12	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

15.13 KSHAMTA: NIL

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

15.14 DFI

Sl	District	Taluks	Villages	Farmers (No.)	Average Benchmark Income (Rs/year)	Crops/ enterprises	KVK Interventions	Additional Net Income generated due to KVK interventions (Rs/year)	Total income of farmer (Rs/year)
1	Koppal	Koppal	Chikkabomannal	50	33400	Sunflower Redgram, Greengram, Maize, Bengalgram Groundnut	FLD OFT Trainings Field day Field visit	10,000	43400
2	Koppal	Kushtagi	Muddalagundi	50	77250	Sunflower Redgram, Greengram, Maize, Bengalgram Groundnut	FLD OFT Trainings Field day Field visit	12000	89250
3	Koppal	Gangavathi	Chikkadankankal	50	110580	Paddy Onion Maize	FLD OFT Trainings Field day	15000	125580

							Field visit		
4	Koppal	Yelburaga	Vataparvi	50	227800	Sunflower Redgram, Greengram, Maize, Bengalgram Groundnut Vegetables Seed production	FLD OFT Trainings Field day Field visit	25000	252800

PART XVI - FARMERS FEEDBACK ON ASSESSED/DEMONSTRATED TECHNOLOGIES OF CROPS / LIVESTOCK

16.1 Farmers feedback on performance of crop varieties/hybrids

Sl. No.	Crop varieties/hybrids assessed/ demonstrated	Farmer's feedback
1	Paddy Variety 15048	Slender fine grains fetched higher market price and no lodging but the yield of the variety is low
2.	Sorghum variety GS-23	Higher income, higher yield, resistant to pest and disease
3.	Demonstration of High Yielding Proso millet Variety HB-1	Higher income, Higher yield, short duration and more no. of tillers
4.	Demonstration of High Yielding Little millet Variety HS-1	Higher income, Higher yield, short duration and more no. of tillers
5.	Demonstration of High Yielding Browntop millet Variety HBr-2	High yielding and higher net returns
6.	Demonstration of High yielding Marigold variety Arka Abhi	More no. of flowers per plant with bigger size
7.	Demonstration of tuberose variety Arka Prajwal for higher productivity	More no. of flower per spike with increased weight Development of smooth petal variety is needed

16.2 Farmers feedback on performance of agronomic practices

Sl. No.	Agronomic practices	Farmer's feedback
1	Demonstration of new herbicide molecule in Sunflower crop	Less labour required and higher weed control efficiency
2.	Demonstration of Site specific nutrient management in paddy	Higher yield, net return and benefit cost ratio due to balanced application of fertilizer
3.	Maximization of paddy Yield by modified dosage of NPK fertilizer	Reduced cost of cultivation and higher net returns
4.	Demonstration of organic nutrient management in DSR	Rejection of rice is less due to less chemical residues for export and sustain the soil fertility
5.	Demonstration of Nano-Nitrogen and Nano Zinc for enhancing the productivity and profitability in Paddy	Low cost, increase the efficiency of N use by foliar application
6.	Demonstration of weed management in Paddy	Higher yield and net returns
7.	Demonstration of LCC for real time nitrogen management in Paddy	Less fertilizer requirement, less incidence of pest and diseases and reduced cost of cultivation with higher yield
8.	Demonstration of Water Saving Technique : Alternate Wetting & Drying (AWD) in Paddy	Less water requirement, less incidence of pest and diseases and reduced cost of cultivation with higher yield

16.3 Farmers feedback on performance of pest and disease management in crops

Sl. No.	Pest and disease management in crops	Farmer's feedback
1.	Demonstration of Integrated Management of Rice gall midge to increase productivity	Saving of cost of cultivation, less use of chemicals

16.4 Farmers feedback on performance of farm machinery technologies: NIL

Sl. No.	Farm machinery technologies	Farmer's feedback
-		

16.5 Farmers feedback on performance of livestock and fisheries technologies: NIL

Sl. No.	Livestock/fisheries technologies	Farmer's feedback
1	Demonstration of Integrated dairy management for better health and productive performance in cow	Increased milk yield, Fat % and SNF Less incidence of mastitis
2	Demonstration of impregnated nano fibres for injection of oestrus in repeat breeding cow/buffalo	High percentage of conception rate
3	Low cost egg incubator and hatchery to enhance income and food security to self help groups	Increased percentage of hatchability
4	Demonstration of quality silage making in stall fed sheep/goat units for better weight gain	Good palatability of the silage, Increased body weight of sheep/goat
5	Demonstration of fast growing, short duration and high value all male tilapia fish in farm ponds	Good survivability, fetch more price Local market value is same as Indian major carps

PART XVII - FINANCIAL PERFORMANCE

17A. 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	-	-	-	-	-	-	-
PFMS	SBI	Gangavati	009752	Senior Scientist & Head	10809525754	583002227	SBIN0009752
ICAR RF	SBI	Gangavati	009752	Senior Scientist & Head	10809526032	583002227	SBIN0009752
KVK_ Imprest AC	SBI	Gangavati	009752	Senior Scientist & Head	38650317733	583002227	SBIN0009752

17B. Utilization of KVK funds during the year 2020-21 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	20288000	20288000	19131116
2	Traveling allowances	142000	142000	135150
3	Contingencies			
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	240000	240000	233614
<i>B</i>	POL, repair of vehicles, tractor and equipments	200000	200000	189214
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	140000	140000	121840
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	20000	20000	19950
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	315000	315000	254588
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	30000	30000	16450
<i>G</i>	Training of extension functionaries	5000	5000	3360
<i>H</i>	Maintenance of buildings	50000	50000	46027
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	10000	10000	9978
<i>J</i>	Library	5000	5000	4490

<i>K</i>	Nutrigardens	29000	29000	22750
<i>L</i>	EDP/Innovation Activities	30000	30000	29568
<i>m</i>	Extension Activities	25000	25000	23760
TOTAL (A)		1237309	1237309	20382599
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipment including SWTL & Furniture	243000	243000	242362
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library (Purchase of assets like books & journals)	-	-	-
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		21955816	21955816	20670468

17C. Status of revolving fund (Rs. in lakh) for the last three years

Year	Opening balance as on 1 st January	Income during the year	Expenditure during the year	Net balance in hand as on 31 st December of each year
January to December 2019	19,60,293	34,44,836	28,18,463	8,16,666
January to December 2020	8,16,666	52,61,044	39,00,306	21,77,404
January to December 2021	21,77,404	40,27,424	36,53,146	20,21,043

18. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Jyothi R.	Scientist (Horticulture)	Terrance gardening	IIHR Bengaluru	28.09.2021 (Online)
		Mushroom Production and consumption	IIHR Bengaluru	09.08.2021 to 11.08.2021 (Online)
		International webinar on pomegranate : ancient fruit in modern horticulture	NRC, Pomegranate, Sholapur	25.08.2021 to 27.08.2021 (Online)

Dr. Raghavendra Yaligar	Scientist (Agril.Entomology)	E-Resources E-Learning and IOT	ICAR-National Academy of Agriculture Research management, Rajendranagar Telegana	13.12.2021 to 24.12.2021
Dr. Raghavendra Yaligar	Scientist (Agril.Entomology)	ICAR-IIHR technologies for dissemination through KVKs	IIHR, Bengaluru	17.12.2021 to 18.12.2021
Dr. Raghavendra Yaligar	Scientist (Agril.Entomology)	AESA and ecological Engineering in pest management	NIPHM, Hyderabad	05.07.2021 to 09.07.2021
Dr. Mahanthes M.T.	Scientist (Animal Science)	E-Resources E-Learning and IOT	ICAR-National Academy of Agriculture Research management, Rajendranagar Telegana	13.12.2021 to 24.12.2021
Dr. Mahanthes M.T.	Scientist (Animal Science)	Application of Noval Methods in prevention and control of zoonoses and ensuring food safety	College of Veterinary Science and Animal Husbandry, NDVSU, Jablapur (M.P)	18.02.2021 to 10.03.2021
Dr. Kavitha Ullikashi	Scientist (Home Science)	Trainers training programme on fat and oil seed processing	NIFTEM, MOFPI and UASR	27 th July to 4 th Aug 2021
Dr. Kavitha Ullikashi	Scientist (Home Science)	Road map for KVKs to enhance mushroom production and consumption	IIHR ,Bangalore	9 th Aug To 11 Aug 2011
Dr. Kavitha Ullikashi	Scientist (Home Science)	Biofortification: A path to sustainable nutrition	ASSOCHAM	1/10/2021
Dr. Kavitha Ullikashi	Scientist (Home Science)	“FSSAI Regulatory Framework with Codex Perspective”	SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA, INDORE Shri Vaishnav Institute of Home science Department of Food and Nutrition	16/10/2021

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