

KRISHI VIGYAN KENDRA UTTARA KANNADA

ANNUAL REPORT -2017-18

(FOR THE PERIOD FROM 01 APRIL 2017 TO 31 MARCH 2018)

**ICAR- Krishi Vigyan Kendra, Uttara Kannada,
Banavasi Road Sirsi-581401**

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		
Krishi Vigyan Kendra Banavasi Road, Sirsi-581 401 District : Uttara Kannada State : Karnataka	Office (08384) 228411	FAX (08384) 228411	Kvk.uttarakananda@icar.gov.in kvkuks@gmail.com	www.kvkuttarkannada.org

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

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Agricultural Sciences, Krishi Nagar Dharwad -580 005	(0836) 2448512, 2447494	(0836) 2748199	deuasd@rediffmail.com de@uasd.in	www.uasd.edu

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Manju M J.	-	9448495345	manjumjm@yahoo.co.uk

1.4. Year of sanction: 2004

1.5. Staff position as on 31 March 2018

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.	Senior Scientist and Head	Dr.Manju M.J	Senior Scientist and Head	M	Plant Pathology	PhD	37,400	9000	23.10.2017	P	SC
2.	Scientist	Dr.Roopa S.patil	Scientist	F	Agri.Entomology	PhD	24,080	7000	03.12.2008	P	Others
3.	Scientist	Shri.Shivashankarmurthy M	Scientist	M	Agronomy	MSc.	19,050	6000	28.11.2011	P	SC
4.	Scientist	Shri.Venkatesh .L	Scientist	M	Agroforestry	MSc.	17,610	6000	05.05.2016	P	SC
5.	Scientist	Dr.Shweta Biradar	Scientist	F	Home Science	PhD	18,840	6000	17.02.2017	P	Others
6.	Scientist	Dr.Santosh Shinde	Scientist	M	Animal Science	PhD	18,840	6000	12.04.2017	P	SC
7.	Scientist	Dr.Santhosh H.M	Scientist	M	Horticulture	PhD	18,840	6000	23.05.2017	P	Others
8.	Programme Assistant	Shri.Siddappa Kannur	Programme Assistant	M	Agroforestry	MSc.	12,430	4200	02.08.2013	P	Others
9.	Computer Programmer	Smt.Annapurna F Neeralagi	Computer Programmer	F	Prog.Asst. Computer	MSc.	12,430	4200	29.03.2010	P	SC
10.	Farm Manager	Dr. Krishna K S	Farm Manager	M	Sericulture	PhD	11,010	4200	14.02.2018	P	Others
11.	Assistant	Smt.Sumalatha S.P	Assistant	F			16,800	-	05.09.2015	P	SC
12.	Stenographer	Ku.Purnima K Hirehal	Typist	F			19,500	-	12.11.2009	P	ST
13.	Driver 1	Shri Balappa Taragar	Driver (L.V)	M			12,750	-	02.04.2018	P	Others
14.	Driver 2	-	-	-			-	-	-	-	
15.	Supporting staff 1	Shri. Hajarath A Nadaf	Asst.cook.cum .care taker	M			12,500	-	02.08.2007	P	OBC
16.	Supporting staff 2	-	-	-			-	-	-	-	

1.6. Total land with KVK (in ha): 7 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2.	Under Demonstration Units	0.4
3.	Under Crops	4.65
4.	Orchard/Agro-forestry	1.15
5.	Others(Uncultivable)	0.4

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							
2.	Farmers Hostel	NATP	2003	395.81	-	-	-	-
3.	Staff Quarters							
	1							
	2							
	3							
	4							
	5							
	6							
4.	Demonstration Units							
	1							
	2							
	3							
	4							
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godawn							
9								
10								

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Bolero	2017-18	800000.00	25985 Km	Is in good condition
Hero Honda passion	2009-10	60000.00	26243 Km	Is in good condition
Tractor	2016-17	400000.00	190 (hrs)	Some minor repair works
Mini Tractor	2011-12	750000.00	423 (hrs)	Is in good condition
Power Tiller	2015-16	255700.00	55 hrs	Good Condition
VST Power Tiller	2010-11	121000.00	84.50 hrs	Good Condition

C) Equipment & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Godrej copier	30-03-2001	80,234	Good condition
Stabilizer	30-03-2001	6,000	''
Portable OHP	31-03-2001	23,920	''
Honda make EBK 2000 generator	31-03-2001	32,800	''
EB 833 Altimeter	25-02-2002	10,990	''

Thomson TV 29" monitor	30-03-2002	28,700	Under repair
Thomson CD player	30-03-2002	6,500	Under repair
Sharp VCR	30-03-2002	12,300	"
Computer and accessories	30-03-2003	72,513	"
Public address system	26-02-2003	10,500	Under repair
Nikon Camera	29-09-2003	28,350	"
Air Conditioner for computer hall	27-09-2003	10,500	"
Photo display frame	27-09-2003	17,000	"
Exhibition showcase	27-09-2003	14,000	"
Scanner	27-09-2003	3,500	"
Sony Digital Camera	2006	13,000	Under repair
Computer HP- with accessories	31.3.2007	36,000	Good condition
Motorized screen	2008	24,000	"
Lexmark Printer	March 2008	15,043	"
Printer (4 in one)	31.3.2009	13,950	"
Sony DV cam – Portable camera	Jan-2010	1,84,000	"
Computer and accessories-HP DC-7000 series (2 Nos)	April-2010	77690	"
Lenovo s10-3s Idea pad	4.02.2011	21600	"
Printer- HP 1007	30-03-2011	4900	"
Oven - Bajaj	March 2011	2,800	"
Pepper Diconing	March 2011	18,500	"
Generator 7.5 KVA, KIRLOSKER	January 2012	81,057	"
Power Sprayer Single Piston	March 2012	28,000	"
Digital Cameras Canon A 810	September 2012	5,995	"
Canon SX 150	September 2012	9,995	"
Digital Cameras Canon A 810	December 2012	4,900	"
Canon SX 150	January 2013	4,900	"
UPS V-Guard	January 2013	6,540	"
Grinder	January 2013	4,500	"
Coco Butter Extractor	January 2013	44,885	"
Ground nut Stripper (3)	January 2013	3,350	"
Hand Refractometer	January 2013	3,807	"
Banjo- Power operated groundnut stripper	March 2013	19474	"
HP Laptop	Jan-2014	52000	"
Sugarcane eye bud chipper	March 2014	4000	"
Power Safe UPS	March-2014	2250	"
Printer	July-2014	18500	"
Projector	July-2014	45000	"
Digital copier	July-2014	162518	"
UPS 650 VA	September 2014	1600	"
Iball baton Model	December - 2014	2150	"
UPS 1.5 KV	January 2015	31122	"
Portable bag sticher	December 2014	4800	"
Biometric	January 2015	14533	"
Laser Printer	January 2015	8600	"
Laser Printer	March 2015	8600	"
UPS 650 VA	March 2015	2250	"
KVA Stabilizer	2016	4537	Good condition
LG Air conditioners	2016	34253	Good condition
V Guard Stabilizer	2016	2000	Good condition
Sukum 2kva 24v UPS	2016	15,000	Good condition
150AH Hi-Power tabular battery	2016	13,800	Good condition
Logitech R400 Presenter	2016	4400	Good condition
16 GB H.P. Pen drive	2017	500	Good condition
Pocket projector	2017	42937	Good condition
SMPS Unit	2017	11450	Good condition
1.0 T.B. Seagate Hard disc	2017	49000	Good condition
HP LaserJet 128FN Printer	2017	17650	Good condition
Canon lide 120 scanner	2017	4500	Good condition

Double Stevenson screen box	2017	21250	Good condition
Exide MRed 700 L	2017	5900	Good condition
Acer Veriton Computer	2017	1,19,100	Good condition
Shedder	2017	49,820	Good condition
Exide XP 800 Battery	2017	5,900	Good condition
Bolero Vehicle (SLE 2WD 7 SEATER AC & PS BS45K)	12.05.2017	6,61,543	Good condition
External DVD writer	30.06.2017	2,500	Good condition
I Ball Multimedia Speaker	30.06.2017	4,900	Good condition
1000 GB Seagate External Hard disk	30.06.2017	4,900	Good condition
HP Laptop i 7	17.01.2018	74,180	Good condition
HP Laptop i 7	17.01.2018	74,180	Good condition
HP Laptop i 7	17.01.2018	74,180	Good condition
HP Laptop i 7	17.01.2018	74,180	Good condition
32 GB pen drive	31.01.2018	950	Good condition
HP Laserjet Printer (pro MFP m227sdn)	05.02.2018	25,390	Good condition
HP Laserjet Printer (pro MFP m227sdn)	05.02.2018	25,390	Good condition
1 TB Seagat External Hand disk	16.02.2018	3,898	Good condition
HP All in one Laserjet Printer	27.02.2018	15,500	Good condition
RICOH laser printer (Model SPIII)	05.03.2018	4,799	Good condition
Automatic Macro (250 ml) Black Digestion System (Brand: Tulin equipments)	18.03.2018	1,08,500	Good condition
EDSON Printer (380 colour ink tank printer (print/scan/copy)	19.03.2018	11,600	Good condition (GKMS)
Automatic Distillation System, (Brand: Tulin equipments)	20.03.2018	1,88,550	Good condition
Steam Sterilizer (Horizontal Autoclave) (Band: Heat control)	26.03.2018	4,22,440	Good condition
HP Laserjet Printer (Pro MEP M2275dn)	27.03.2018	24,800	Good condition
Mechanical Shakar (HSN # 85143090) (sl. No-LI-17-221)	27.03.2018	49,880	Good condition
HP BR 106 TX Laptop	28.03.2018	58,528	Good condition (GKMS)
HP Laptop	28.03.2018	77,526	Good condition
Laminar Air flow Chamber	31.03.2018	90,000	Good condition
Digital Balance	31.03.2018	81,479	Good condition

1.8. Details of SAC meeting conducted during 2017-18

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
01.06.2017	13	Pamphlets including the details viz, Address, Phone No availability of machines etc. Of custom hiring centres to be printed and distributed to the farmers The same information is to be uploaded to the KVK website. Dr. Srinath Dixit, Director, Zonal	The information is uploaded to website	
		Water and nutrient requirement major plantation crops the district are to be collected and distributed to the farmers The Same is to be uploaded to the website.	500 copies each of Water Management of Banana and Arecanut are developed and distributed to the farmers during trainings, seminars and other extension activities organized. The information is uploaded to KVK Website in PDF format.	
		KVK and KSDA Should work in Collaboration, in this connection list of FLD/OFT training and the details of other extension activities are to be sent to KSDA Also arrange exposure visits to such plots.	FLD and OFT plots of Groundnut, Bt cotton, LAC, Cashew , Greengram, Blackgram and Livestock are implemented in collaboration with KSDA, ATMA and Animal Husbandry Dept. , Forest Department	
		All technical Staff of KVK Should write at least one agribased article, Hence 72 Articles / Success Stories of farmers to be recorded & to be presented in the next SAC.	21 popular articles are written for different magazines.	
		Total 14 FPOS have been approved in the state for development & technical backstopping, in this connection appropriate technical backstopping should be provided to the FPO.	Technical backstopping to Pragati Mitra , Madhukeshwara and Dhan Foundnation in Sirsi Tq. are given regular technical back stopping.	
		Impact analysis of KVK activities is to be carried out & documented & presented.	Impact analysis of vocational training programme conducted on stitching and tailoring is documented.	
		Action may be taken to take up research should at university level to study the outreach of technologies developed by UASD, In this connection additional information may be sought from ATARI, Bangalore.	-	
		To address the Labors problem new technologies like mechanized paddy transplanting are to be taken up and KVK team may visit KVK	Not initiated.	

		Mallapuram for collecting information.		
		KVK has well established SWIL efforts may be made to test at least 3000 samples & issue Soil Health Cards.	2389 Samples are tested and analyzed during 2017-18	
		KVK has the credit of introducing KMP – 105 paddy variety in the district. In this connection success stories is to be prepared & uploaded to KVK website / portal.	The concerned scientist is on Deputation for PhD and will be back in July 2018. The work will be initiated in this regard.	
		Activities with respect to Fodder cafeteria Hydroponic unit availability of fodder seeds, silage with Jack fruit etc. Are to be taken up.	Hydroponic unit is established at KVK Sirsi. FLD on Silage making using silo bags is conducted in 10 farmers fields. It is planned to establish ½ acre fodder unit in instructional farm during Kharif 2018.	
		Hydroponic demo unit is to be established in KVK.	Hydroponic unit is established at KVK Sirsi.	
		Action may be taken to included 2 malanad Gudda cows in the Dairy unit. IF necessary pure breed of cows can be purchased from Ramachandrapura Math.	Permission from UASD to purchase the cattle is under process	
		Desi breed cattle mela is to be organized. If necessary financial aid may be taken from NABARD.	Cattle mela is planned during 2018-19.	
		Atleast 1000 Subscribe are to be made to Krishi Munnade during 2017-18	Nearly 200 farmers are subscribed to Krishi Munnade during 2017-18	
		In view of encouraging farmer written articles a seminar may be organized with caption “ Krishikara Kaige Lekhani”. & workshop of writers is to organized.	Will be taken up during 2018-19	
		Farmers – Bankers introduce meeting to be organized.	Organized on 13-03-2018 at KVK Sirsi. 48 farmers and managers from different banks participated in the event.	
		A Calendar depicting the activities of KVK is to be prepared & sent to line department.	Will be taken up for the year 2018-19 activities	
		Training to rural women’s are to be organised to train them in preparation of dry flower bouquet using plant remains of Arecanut & coconut.	Awareness regarding preparation of decorative items from arecanut leaf sheath and coconut coir was created through method demonstration to rural women.	
		The value added products prepared at KVK are to be branded and FSSIA license is to be procured	Preparation of value added products at ICAR-KVK UK and getting FSSAI license is	

		and products are to supplied the market regularly For more information, www.itiha.com May be contacted.	under process. Primary value addition for kokum and turmeric as EDP & getting FSSAI license is also proposed under Action Pan for the year 2018-19	
		License may be taken from IIHR & IISR for production of IIHR special & IISR Special products and RIF.	The proposal for procurement of License for IISR Special and IIHR Special is sent to UASD under SRP Mode. The proposal is under consideration at UASD.	
		All the technical publication are to be uploaded to KVK website & KVK portal.	Uploaded to the website.	

PART II - DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Rainfed area : Paddy- Pulses/Ground nut, Maize- Pulses, Areca nut and Coconut based multi cropping system Irrigation : Paddy –Paddy, Sugarcane, Paddy –Maize, Areca nut and Coconut based multi cropping system
2	Non Timber Forest Produce, Fisheries and Dairy

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

S. No	Agro-climatic Zone	Characteristics
1	Zone – 9	Hill Zone Rainfall : 2500 mm Soils : sandy loam, laterite, clay loam & medium black Major crops : Paddy, Maize & pulses cotton, areca nut based mixed crops of spices.
2	Zone – 10	Coastal Zone Rainfall : 3500 mm. Soils : Sandy soils, laterite, costal alluvial, sandy loam. Major crops : paddy, groundnut, pulses and arecanut based cropping system.

S. No	Agro ecological situation	Characteristics
1	Coastal ecosystem	High to very high rainfall more than 3500 mm, hot and humidity climate with highly leached sandy soils with low & high pH (Sodium salts).
2	Hill zone ecosystem	Rainfall ranges from 2500 to 3000 mm, with valleys and low hills. Major area covered is forest and dominated by laterite soils.
3	Transitional ecosystem	Rainfall ranges from 800-1500 mm. dominated by plains and rolling hills. Soils vary from red loam to medium black soils.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Lateritic soils	Deep, well drained to excessively drained, yellowish red to dark reddish brown, sandy loam to sandy clay and clay surface soils and clay subsoil's, moderate to severely eroded with surface crusting.	36332
2	Coastal laterite soil	Deep, well drained to excessively drained, dark brown to yellowish red and dark reddish brown, sandy clay loam to clay loam surface soils and sandy clay to clay subsurface soils, moderately to severely eroded with surface crusting.	
3	Coastal alluvial soils	Deep, well drained and poorly drained, pale brown to dark yellowish brown, sand, sandy loam to loam surface soils and sand to loam subsurface soils.	
4	Red gravelly clay soils	Deep and shallow, well drained to excessively drained, yellowish brown dark red to reddish brown, gravelly sandy loam to sandy clay loam and loamy sand surface soils and no calcareous cracking clay to silty clay soils, moderately to severely eroded.	144589
5	Red clay soils	Deep to moderately deep and hallow, well drained, brown to yellowish red to reddish brown, sandy loam and sandy clay to clay subsurface soils, moderately to severely eroded.	552877
6	Forest soils (Brown forest soil)	Deep to moderately, Deep, well drained to excessively drained, dark brown to dark yellowish brown and black sandy clay to sandy clay loam, humus rich surface soils and clay to sandy clay, gravelly sandy clay to clay sub surface soils, moderately to severely eroded.	291679
7	Medium black soils	Shallow, well drained grey to dark grey and brown clay loam and silty clay loam.	

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

S. No	Crop	Area (ha)	Production (tons)	Productivity (kg /ha)
1	Paddy	66147	188895	3006
2	Maize	4576	24692	5680
3	Blackgram	3844	204	555
4	Greengram	451	106	244
5	Groundnut	1950	3065	1655
6	Cotton (Bales)	960	1652	308
7	Sugarcane	6519	693621	112
8	Arecanut	17912	43864.88	2450
9	Coconut (lakh nuts)	7784	1365	0.18 (lakh nuts)
10	Blackpepper	774	325	420
12	Ginger	372	9672	2600
13	Cardamom	528	132	250
14	Cashew	3380	7364	2182
15	Banana	2911	90297	31020
16	Mango	2514	46540	18510
17	Pineapple	441	32820	74420

* Source : Statistical Dept, Karwar & DoH, Sirsi

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
January	0.4	30.7	11.7	76
February	0.5	33.0	16.2	64
March	0.5	34.9	19.3	65
April	4.9	35.5	21.5	73
May	103.0	34.3	21.2	73
June	670	28.3	20.1	85
July	824	26.2	21.1	89
August	446	26.3	20.8	91
September	255	26.8	20.1	85
October	123	29.9	17.7	75
November	12	31.7	13.8	70
December	5	30.9	11.8	69

Sources :

* Rainfall Data : KSDA Karwar

* Temperature & RH : AAS Unit, Sirsi

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	47167	59679 thousand ltrs	
<i>Indigenous</i>	289788		
Buffalo	87816		
Sheep			
<i>Crossbred</i>	234	2491 tonnes (Meat)	
<i>Indigenous</i>	4549		
Goats	8961		
Pigs			
<i>Crossbred</i>	469		
<i>Indigenous</i>	1022		
Rabbits	508		
Poultry			
Hens	537037	287.31 lakh eggs	
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			

*Uttara Kannada at a Glance 2013-14 by Statistical Department , Karwar

Category	Area	Production	Productivity
Fish		109818.28 Tones	
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

*Uttara Kannada at a Glance 2015-16 by Statistical Department , Karwar

2.7 District profile has been **Updated** for 2017-18 Yes / No: **Yes**

2.8 Details of Operational area / Villages

Sl.No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Sirsi	Sirsi	Kesarkoppa	1	Paddy, arecanut, blackpepper, banana, dairy, Agroforestry	Poor nutritional status of the adolescents and lack of knowledge regarding importance of nutrients, Repeat breeding in cows, Maintainance, poor management of new born calfs, Fodder scarcity, under Utilized betta lands	ICM in Paddy, fodder production through Hydroponics, Silage preparation, Use of new PG protocols for management in RB cows., Promotion of Nutritional Garden In Schools. Effective utilization of betta lands through TBO and NTFPS, MPTs as blackpepper standards., IFS
			Ajjibale	1			
			Jaganur	1			
			Sirsi	1			
			Kenchagadde	5			
			Shigehalli	1			
			Javalagundi	1			
			Uplekoppa	1			
			Gadihalli	1			
			Kokalli	1			
			Ugremane	1			
			Honnegadde	1			
			Manjuguni	1			
			Terakanalli	1			
			Kabbe	1			
			Arehalla	1			
			Kerekoppa	1			
			Kanagod	2			
			Kanakoppa	1			
			Hudelkoppa	1			
			Deverkoppa	1			
			Kalgar	1			
			Achnalli	2			
Koppalgadde	1						
Horle	1						
Bisalakoppa	1						
Kalli	5						
			Santholli	5			
			Dasanakoppa	3			
			Tattaguni	1			
	Sirsi	Banavasi	Gudnapur	7 yrs	Paddy, Ginger, Banana, pineapple, Blackpepper, arecanut	Rhizome rot, stem borer, sheat rot in ginger, heart rot in pineapple, stem borer, leaffolder, armyworm in paddy, nutdrop and nutsplitting , root grub in arecanut	ICM in Paddy, Ginger and Arecanut, IFS
			Rangapur	3			

	Mundagod	Hirehalli	Hirehalli	3	Paddy, Maize <i>Bt.</i> cotton Vegetables Arecanut, Banana, Mango, DairyBlack pepper, Dairy	No additional source of income, Non adoption of scientific cultivation methods in vegetables, low yielding varieties of vegetables	Varietal introduction in Bhendi, Introduction of LAC, ICM in Maize, ICM in <i>Bt.</i> cotton
			Kodambi	1			
			Pala	3			
	Malagi	Malagi	Malagi	3	Paddy, Maize <i>Bt.</i> cotton Vegetables Arecanut, Banana, Mango,Dairy	No additional source of income, Non adoption of scientific cultivation methods in vegetables	Nutritional Garden In Schools., Agroforestry
	Ankola	Ankola	Sakalabena	1	Groundnut, coconut, cashew, paddy	Low yield in paddy, groundnut, Stem borer and tea mosquito in cashew	IPM in Cashew, FFS in groundnut, CFLD in groundnut
			Varialbena	1			
	Haliyal	Shivapur	Shivapur	2	Sugarcane, Maize and Vegetables	Poor tillers, Lesser Cane weight, Low yield in sugarcane, Scarcity of water	Assessment of planting methods of sugarcane
			Rayapattana	2			

2.9 Priority thrust areas

S. No	Thrust area
1	Integrated Crop Management
2	Integrated Nutrient Management
3	Integrated Pest Management
4	Farm Mechanization
5	Integrated Disease Management
6	Integrated Weed Management
7	Soil and Water conservation
8	Integrated Farming system
9	Income Generating activities
10	Nutrition
11	Agro forestry

PART III - TECHNICAL ACHIEVEMENTS

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

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	4	21	16	15	13	110	95

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
98	75	2500	2500	327	1094	107560	20292

Seed Production (Q)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
462	136.83 q	15000	13610

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
0	0	0	0

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
01	ICM	Paddy	<ul style="list-style-type: none"> Poor soil fertility Blast incidence Leaf folder, stem borer, BPH & ear head bug infestations Moisture Stress during summer. 	-	Advanced production technologies for profitable Paddy cultivation	06	0	0	01 Field Day FV : 02	Diancha/sunhemp : 1.5 Paddy (PSB 68) : 3.75	0	0	Azospirillum PSB	7.5 7.5
02		Maize	<ul style="list-style-type: none"> Low yield Poor fertility, Weeds, Stem borer and Root rot 	-	ICM in Maize with special emphasis on weed and nutrient management	05	0	0	FV : 02	0	0	0	0	0
03		<i>Bt.</i> cotton	<ul style="list-style-type: none"> 		ICM in Bt Cotton	02	0	0	FV : 03	Bhendi seeds: 0.005	0	0	0	0

04		Ginger	<ul style="list-style-type: none"> • Rhizome rot disease • Leaf spot • Shoot borer • Poor yield 		Enhancing productivity of Ginger through scientific production technologies	02	0	0	Field Day : 01 Method Demo : 01 FV : 13	0	0	0	Neemcake	150
05		Black pepper	<ul style="list-style-type: none"> • Berry drop • Poor yield 	Management of berry drop in Blackpepper	-	01	0	0	GD : 01 FV : 5 MD : 01	0	0	0	0	0
06		Sugarcane	<ul style="list-style-type: none"> • Low yield due to Poor tiller and lesser cane weight 	Assessment of Planting Methods in Sugarcane	-	01	0	0	FV : 02	0	0	0	0	0
07	IPM	Cashew	<ul style="list-style-type: none"> • Low yield • TMB • CSRB 	-	IPM in Cashew	0	0	0	FV : 02	0	0	0	0	0
08	Vegetables	Bhendi	<ul style="list-style-type: none"> • Lack of commercial cultivation • Yellow vein mosaic virus disease 	-	Introduction of Bhendi variety Arka Anamika	01	0	0	FV : 05	Arka anamika: 0.025	0	0	0	0
09	Home Science	Nutritive Vegetable Garden	<ul style="list-style-type: none"> • Poor nutritional status of the adolescents • Lack of knowledge regarding importance of nutrients 	-	Nutritional Garden in Schools	02	0	01	FV : 7	Vegetable seeds : 1.2 kg	0	0	Neem Oil	5 ltr

10	Agroforestry	TBOs	<ul style="list-style-type: none"> • Improper utilization of Betta lands • Loss of species diversity 	-	Effective utilization of betta lands through cultivation of TBO's for sustainable land use	01	0	0	FV : 8 MD : 01	0	TBO seedlings : 3000	0	0	0
11		NTFPS	<ul style="list-style-type: none"> • Loss of soil fertility • Loss of indigenous tree species • Improper utilization of Betta lands • Loss of species diversity 	-	Effective utilization of betta lands through cultivation of NTFPs for sustainable land use	01	0	0	FV : 07 MD : 1	0	NTFP Seedlings : 3000	0	0	0
12		MPTs	<ul style="list-style-type: none"> • Need for evaluation of existing MPTs as pepper standards 	Evaluation of Multi Purpose Trees (MPT) as pepper standards	-	0	0	0	F V : 04	0	Blackpepper seedlings: 835	0	0	0
13	Dairy Management	Livestock	<ul style="list-style-type: none"> • Repeat breeding in cows 	-	Assessment of modified PG protocol for treating repeat breeding cows	01	0	0	FV : 11	0	0	0	0	0
14	Feed and Fodder Management	Silage	<ul style="list-style-type: none"> • Scarcity of fodder during summer, 	-	Preparation and maintenance of silage using silo bags	02	0	0	FV : 7 MD : 02	0	0	0	0	0

15	Dairy Management	Livestock	<ul style="list-style-type: none"> Lack of awareness regarding care of calf after birth, Higher risk of naval cord infection, Reduced body weight 	-	Care and management of new born calf to avoid bacterial and parasitic infection	0	0	0	FV : 7	0	0	0	0	0
16	Feed and Fodder Management	Hydroponics	<ul style="list-style-type: none"> Scarcity of fodder 	-	Hydroponic fodder (Demo unit at KVK)	02			FV : 09					
17	Others	LAC	<ul style="list-style-type: none"> No knowledge on Lac cultivation 	Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District	-	01	0	0	FV: 05	Brood Lac : 0.022	0	0	0	0

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
01	Integrated Crop Management	UASD	Paddy	0	01	07	FD : 01
02	Integrated Crop Management	UASD	Maize	0	01	05	0
03	Integrated Crop Management	UASD	<i>Bt.</i> cotton	0	0	02	0
04	Integrated Crop Management	UASD	Ginger	0	01	02	FD : 1
05	Integrated Pest Management	UASD	Cashew	0	01	01	0
06	Introduction of new variety of bhendi	UASB	Bhendi	0	01	01	0

07	Nutritive Vegetable Garden in School	UASD	Vegetables	0	01	03	0
08	Agro forestry	KAU Thrissur	NTFPS, TBOs	0	02	02	0
09	Assessment of modified PG protocol for treating repeat breeding cows	KVAFSU, Bidar	Livestock	0	01	01	0
10	Care and management of new born calf to avoid bacterial and parasitic infection	KVAFSU, Bidar	Livestock	0	01	0	0
10	Preparation and maintenance of silage using silo bags	KVAFSU, Bidar	Silage	0	01	02	0
11	Hydroponics	UASD	Hydroponics	0	01	02	0
12	IFS	UASD	IFS	0	01	07	0
13	Management of berry drop in Blackpepper	TNAU & KAU	Black pepper	01	0	01	0
14	Assessment of Planting Methods in Sugarcane	UASD	Sugarcane	01	0	01	0
15	Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District	IINRG Ranchi	Lac	01	0	02	0

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
0	0	0	0	15	0	0	0	85	88	15	22	42	08	0	0
0	0	0	0	15	0	0	0	82	63	19	16	0	0	0	0
0	0	0	0	8	0	02	0	18	2	02	0	0	0	0	0
0	0	0	0	02	02	01	0	70	01	15	0	15	04	03	0
0	0	0	0	11	0	0	10	01	0	0	0	0	0	0	0
0	0	0	0	4	0	01	0	06	0	0	0	0	0	0	0
0	0	0	0	05	0	0	0	120	70	0	0	0	0	0	0
0	0	0	0	15	0	0	0	30	05	0	0	0	0	0	0
0	0	0	0	12	0	0	0	26	03	0	0	0	0	0	0
0	0	0	0	8	02	02	0	0	0	0	0	0	0	0	0
0	0	0	0	05	0	01	0	45	10	0	0	0	0	0	0
0	0	0	0	01	0	0	0	17	25	0	0	0	0	0	0
0	0	0	0	05	0	0	0	132	72	01	05	0	0	0	0
05	0	0	0	0	0	0	0	21	10	0	0	0	0	0	0
03	0	0	0	0	0	0	0	12	2	5	2	0	0	0	0
03	0	0	0	0	0	0	0	17	3	1	0	0	0	0	0

PART IV - On Farm Trial

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Agroforestry*	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management				1				01		02
Integrated Disease Management										
Small Scale Income Generation Enterprises				1						01
Weed Management										
Resource Conservation Technology									01	01
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total				2				1	1	04

* New category "Agro forestry" is included in place of tuber crops.

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

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

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

4.B. Achievements on technologies Assessed and Refined :

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Integrated Nutrient Management					
Varietal Evaluation					
Integrated Pest Management					
Integrated Crop Management	Black pepper	Management of berry drop in Blackpepper	05	05	0.36
	Sugarcane	Assessment of planting methods in sugarcane	03	03	0.4
Integrated Disease Management					
Small Scale Income Generation Enterprises	Lac	Evaluation of inoculation seasons for brood lac on Kusum tree in uttara Kannada District	03	03	-
Weed Management					
Resource Conservation Technology	MPTs	Evaluation of Multi Purpose Trees as pepper standards	05	05	0.1
Farm Machineries					
Integrated Farming System					
Seed / Plant production					
Value addition					
Drudgery Reduction					
Storage Technique					
Mushroom cultivation					
Total					

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

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

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

4.C1. Results of Technologies Assessed

Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Source of technology	Yield	Unit of yield	Observations other than yield	Net Return Rs. / unit	BC Ratio	Remarks if any
1	2	3	4	5	6	7	8	9	10	11	12	13
Black pepper	Limited Irrigation	Berry drop leading to low yield	Management of berry drop in Blackpepper	05	TO1: No spray	-	15.7	q/ha	% reduction in Berry drop: 0.0	369873	3.07	
					TO2: DAP 1.5 % spray & NAA @ 25 ppm at berry set and fruit development stage respectively	TNAU Coimbatore	16.7	q/ha	11.76	401950	3.23	
					TO3: NAA @ 40 ppm at berry set and fruit development stage	KAU Thrisur	16.5	q/ha	7.38	393750	3.17	
Sugarcane	Irrigated	Water shortage leading to poor tillering and low cane weight leading to low yield	Assessment of Planting Methods in Sugarcane	03	TO1 : Planting at 75 cm spacing		119.0		Pl. population/ha: 7714 Length of Cane l (m): 1.73 Single cane weight (Kg): 1.55	177467	2.13	
					TO2: Planting at 90 cm	UASD	129.2		73260 2.03 1.78	20453	2.26	
					TO3 : Planting at 60- 120 - 60 cm (Paired row system)	UASD	165.5		81400 2.20 2.0	301733	2.87	
					TO4 :	UASD	222.89	Tones/ha	104633	396268	2.74	

					Pit method (90 X45 cm spacing and Pit size 100 cm X100 x45 cm)				2.28 2.13			
MPTs (Melia dubia)	Rainfed		Evaluation of Multi Purpose Trees (MPT) as pepper standards	5	TO1: Areca nut with black pepper	UHS Bagalkot	-	-	Survival %: 76.60	-	-	Vegetable stage
					TO2: Silver oak with black pepper	UHS Bagalkot	-	-	79.60	-	-	
					TO3: <i>Melia dubia</i> with black pepper	KAU Thrissur	-	-	82.0	-	-	
Lac	-	Lack of awareness on lac cultivation	Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District	03	TO1: Nil	-	-					
					TO2 : Inoculation during Kharif	IINRG Ranchi	64.83	Kg/tree	% Eublema infestation 5.50	15010.6	5.37	-
					TO 3 : Inoculation during Summer	IINRG Ranchi	-	-	4.58	-	-	Maturation Stage
Black pepper	Irrigated	Sucking pests in black pepepr	Eco friendly management of sucking insects in black pepper		TO 1: Spraying with Dimethoate 2 ml/l	Vitiated due to non availability of bio pesticides (TO-2) in limited quantity						
			TO 2 : Spraying with Fish oil rosin soap @ 3% + Soil appln of Neem Cake @ 1 kg/vine									
			TO 3: Spraying with Neem based pesticide Az 3000 ppm @ 0.5% Soil appln of Neem Cake @ 1 kg/vine									

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

OFT 1: Management of berry drop in black pepper

- 1. Title of Technology Assessed :** Management of berry drop in black pepper
- 2. Performance of the Technology on specific indicators :** Best treatment (TO2) resulted in higher B:C ratio (3:23) compared to farmer practice (3.06)
- 3. Specific Feedback from farmers :** Spraying of NAA Growth regulator and DAP Fertilizer to blackpepper vines was effective in reducing the berry drop and the cost of technology was also very minimal
- 4. Specific Feedback from Extension personnel and other stakeholders :** The technology greatly helped in convincing the farmers about new scientific Technologies.
- 5. Feedback to Research System based on results and feedback received :** Still there is a ample scope for increase in yield by reduding the berry drop hence other water soluble fertilizers and growth regulators may be utilized for further research.

OFT 2: Assessment of Planting Methods in Sugarcane

- 1. Title of Technology Assessed :** Assessment of Planting Methods in Sugarcane:
- 2. Performance of the Technology on specific indicators :** TO4 has yielded highest yield(222.89 ton/ha) with B:C ratio 2.74 and TO3 has yielded 165.5 tones/ha with B:C Ratio 2.87. The B:C ratio in TO4 is less compared to TO3 due to high cost involvement in pit digging.
- 3. Specific Feedback from farmers :** Good yield, less consumption of water as compared to TO1, TO2 and TO3.
- 4. Specific Feedback from Extension personnel and other stakeholders :** Good method for water conservation as well as good yield.
- 5. Feedback to Research System based on results and feedback received :** High cost for pit digging, need mechanization

OFT 3: Evaluation of Multi Purpose Trees (MPT) as pepper standards :

The crop is under vegetative stage, hence the indicators and feedback will be collected in future.

OFT 4: Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District

- 1. Title of Technology Assessed :** Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District
- 2. Performance of the Technology on specific indicators:**
- 3. Specific Feedback from farmers:** No assured market for brood lac , inoculation and harvesting are coincided with heavy rainfall
- 4. Specific Feedback from Extension personnel and other stakeholders :** Not remunerative enterprise when compared to black pepper and areca nut
- 5. Feedback to Research System based on results and feedback received :** Basic studies on lac cultivation for UK district needs to be undertaken

OFT 5: Eco friendly management of sucking insects in black pepper : Vitiated due to non availability of bio pesticides (Fish Oil Rosin Soap) in limited quantity. Hence trials will be initiated 2018-19 with neem oil and pongamia .

4.D1. Results of Technologies Refined : NIL

4.D.2. Details of Technologies refined:

	Ornamental fishes													
	Oyster mushroom													
	Button mushroom													
	Vermicompost													
	Sericulture													
	Apiculture													
	Implements													
	Others (Agroforestry)			TBO										
	TBOs	Rainfed	Kharif	Different NTFPS	-	-	Agro forestry	Effective utilization of betta lands through cultivation of TBOs for sustainable land use	0.5	0.5	0	10	10	0
	NTFPS	Rainfed	Kharif	Different NTFPS	-	-	Agro forestry	Effective utilization of betta lands through cultivation of NTFPs for sustainable land use	0.5	0.5	0	10	10	0

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

Advanced production technologies for profitable Paddy cultivation

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Straw yield t/ha	5.20	4.26
Plant Height (cm)	141.4	132.8
No.of tillers per hill	13.6	10.2
Panicle length	17.64	15.46
No.of Grains / panicle	151.9	139.5

ICM in Maize with special emphasis on weed and nutrient management

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Plant Height (cm)	175.5	167.8
Cob length (cm)	23.80	20.50
Cob Diameter	6.77	5.60
Cost on weed Management	1750	5680
Cost save on weed Management	3930	-
Labour Requirement for weed Management	4	28
% Labour save for weed Management	84.70	-

Introduction of Arka Anamika bhendi variety

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Days to 50% flowering	41.67	53.27

Nutritional Vegetable Garden

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
% Gain in Knowledge (Pre Test)	73.5	-
% Gain in Knowledge (Post Test)	89.5	-

Enhancing productivity of Ginger through scientific production technologies

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
% Germination	88.40	79.13
% incidence of rhizome rot	10.67	18.22
% Leaf Spot	14.24	27.66
% shoot borer	16.55	22.10

IPM in Cashew

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
TMB Damage rating 0-4 scale	1.53	3.67
Recovery of CSRB affected Trees(%)	5.45	1.64

ICM in Bt. cotton

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Aphids/ 3 leaves	2.02	8.75
Square & Boll drop(%)	1.44	4.07
Thrips/3 leaves	1.52	4.17
Incidence of Shoot weevil(%)	Negligible	Negligible

Effective utilization of betta lands through cultivation of TBOs for sustainable land use

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Survival %	68.52	-
Height(cm)	52.97	-
Collar Diameter(mm)	9.28	-

Effective utilization of betta lands through cultivation of NTFPs for sustainable land use

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Survival %	71.35	-
Height(cm)	58.17	-
Dollar Diameter(mm)	9.17	-

5.B.2. Livestock and related enterprises

Type of livestock	Name of the technology demonstrated	Breed	No. of Demo	No. of Units	Milk Yield (lit/animal/day)				% Increase	*Economics of demonstration (Rs./unit)				*Economics of check (Rs./unit)			
					Demo			Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Dairy	Assessment of modified PG protocol for treating repeat breeding cows	Crossbred	12	12	16	10	12	8	50	38600	228480	189880	4.20	49500	188160	138660	6.27
	Care and management of new born calf to avoid bacterial and parasitic infection	Crossbred	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry																	
Rabbitry																	
Pigerry																	
Sheep and goat																	
Duckery																	
Others: Fodder (Silage)	Preparation and maintenance of silage using silo bags	Crossbred	05	05	12.50	8.40	9.92	9.32	6.44	109.12	277.76	168.64	2.55	121.16	260.96	139.8	2.15
Hydroponics	Demonstration and establishment of hydroponics unit at KVK	Local Maize	01	01	9.3	8.4	8.8	8.26	6.54	105.6	220	114.4	2.08	115.85	206.90	90.05	1.79

Note: Economics of Fodder category FLDs is calculated based on per day milk yield.

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

Assessment of modified PG protocol for treating repeat breeding cows

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any
Conception/No of animals pregnant	10	4
Conception rate (%)	83.33	33.33
Duration of Estrus(hrs) (< 18-24 hrs)	03	0
Duration of Estrus(hrs) (24-48 hrs)	07	05
Duration of Estrus(hrs) (> 48 hrs)	02	07

Care and management of new born calf to avoid bacterial and parasitic infection

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any
Incidence of Umbilical cord infection	0	03
% incidence of calves infected	0	25
No of calves infested with pot belly	01	04
% calves infested with pot belly	8.33	33.33
Body weight gain(kg) after 2.5 to 3 months	78.30	69.88
% increase in weight gain	10.75	-

Preparation and maintenance of silage using silo bags

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any
Quality of silage	Good (+2)	
Palatability	Low Rejection (+1)	

5.B.3. Fisheries : NIL

5.B.4. Other enterprises : NIL

5.B.5. Farm implements and machinery : NIL

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

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	02	72	
2	Farmers Training	28	127	
3	Media coverage	5	-	
4	Training for extension functionaries	0	0	
5	Others (Please specify)			

PART VI – DEMONSTRATIONS ON CROP HYBRIDS : NIL**Demonstration details on crop hybrids****PART VII. TRAINING****7.A.. Training of Farmers and Farm Women including sponsored training programmes (On campus)**

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Farming	3	59	30	89	01	0	01	60	30	90
Integrated Crop Management	2	0	42	42	0	12	12	0	54	54
Horticulture										
a) Vegetable Crops										
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
Production and Management technology	1	13	06	19	02	02	4	15	8	23
e) Tuber crops										
f) Spices										
Production and Management technology	2	73	8	81	13	2	15	86	10	96
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Livestock Production and Management										
Dairy Management	3	80	74	154	12	16	28	92	90	182
Animal Disease Management	1	32	8	40	5	3	8	37	11	48
Feed and Fodder technology	2	17	25	42	0	0	0	17	25	42
Home Science/Women empowerment										
Preperation of coca chocolates	05	0	150	150	0	0	0	0	150	150
Agril. Engineering										
Plant Protection										
Integrated Pest Management	1	19	0	19	0	0	0	19	0	19
Fisheries										
Production of Inputs at site										
Vermi-compost production	1	12	40	52	0	0	0	12	40	52
Mushroom production	1	8	40	48	0	3	3	8	43	51
Apiculture	1	100	50	150	0	0	0	100	50	150
Capacity Building and Group Dynamics										
Others : Capacity building for ICT Applincation	1	18	20	38	5	5	10	23	25	48
Agro-forestry										
Nursery management	04	90	0	90	0	0	0	90	0	90
Others : Bamboo Crafts	02	100	50	150	0	0	0	100	50	150
TOTAL	30	627	400	1027	47	53	100	381	349	1120

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Resource Conservation Technologies	1	2	2	14	5	2	7	17	4	21
Integrated Farming	3	43	42	85	0	5	5	43	47	90
Integrated Crop Management	8	96	104	200	13	18	31	109	122	231
Others :Organic frming	1	33	2	35	4	0	4	37	2	39
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	2	31	60	91	10	20	30	41	80	121
b) Fruits										
c) Ornamental Plants										
d) Plantation crops										
e) Tuber crops										
f) Spices										
Production and Management technology	2	43	11	54	4	0	4	47	11	58
g) Medicinal and Aromatic Plants										
Soil Health and Fertility Management										
Livestock Production and Management										
Feed and Fodder technology	2	45	10	55	0	0	0	45	10	55
Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	7	79	86	0	0	0	7	79	86
Agril. Engineering										
Plant Protection										
Integrated Pest Management	5	43	5	48	2	0	2	45	5	50
Others : Safe use of pesticides	1	16	9	25	2	1	3	18	10	28
Fisheries										
Production of Inputs at site										
Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	1	8	2	10	1	0	1	9	2	11
Agro-forestry										
Production technologies	1	17	13	30	0	0	0	17	13	30
Others (Pl. specify)	4	135	20	155	0	0	0	135	20	155
TOTAL	36	636	385	1021	65	55	120	701	440	1141

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

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Any other: Apiculture	1	8	25	33	0	0	0	8	25	33
Any other: Nutritive Vegetable Gardening	1	25	16	41	0	0	0	25	16	41
TOTAL	2	33	41	74	0	0	0	33	41	74

7.D. Training for Rural Youths including sponsored training programmes (off campus): NIL**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
Any other: Dairy Management	1	26	3	29	0	0	0	26	3	29
Total	1	26	3	29	0	0	0	26	3	29

7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus): NIL**7.G. Sponsored training programmes conducted**

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	6	102	72	174	1	5	6	103	77	180
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 : Nursery Management	01	7	7	14	2	1	3	8	10	18
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.	Capacity Building and Group Dynamics										
12.b.	Others (pl.specify)										
	Total	7	109	79	788	3	6	9	112	88	200

Details of sponsoring agencies involved**1. Farmers-Farmers Training from Government of Karnataka****2. Manage, Hyderabad**

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

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Crop production and management											
1.a.	Commercial floriculture											
1.b.	Commercial fruit production											
1.c.	Commercial vegetable production											
1.d.	Integrated crop management											
1.e.	Organic farming											
1.f.	Others (pl.specify)											
2	Post harvest technology and value addition											
2.a.	Value addition											
2.b.	Others (pl.specify)											
3.	Livestock and fisheries											
3.a.	Dairy farming											
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	01	11	05	16	0	0	0	11	05	16	
4.h.	Nursery, grafting etc.	2	44	7	51	2	1	3	46	8	54	
4.i.	Tailoring, stitching, embroidery, dying etc.	02	0	44	44	0	0	0	0	44	44	
4.j.	Agril. para-workers, para-vet training											
4.k.	Others : Preparation of bakery products	01	01	21	22	0	0	0	1	21	22	
5	Agricultural Extension											
5.a.	Capacity building and group dynamics											
5.b.	Others (pl.specify)											
	Grand Total	6	56	77	133	2	1	3	58	78	136	

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

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	5	124	13	137	11	8	19	5	0	5
Kisan Mela										
Kisan Ghosthi										
Exhibition	4	10450	675	11125	1080	150	1230	165	65	230
Film Show										
Method Demonstrations	16	176	46	222	17	8	25	16	5	21
Farmers Seminar	01	241	50	291	30	20	50	50	27	77
Workshop	3	263	60	323	20	18	38	50	31	81
Group meetings	2	58	18	76	15	6	21	02	0	02
Lectures delivered as resource persons	60	1552	901	2453	194	168	362	345	87	432
Newspaper coverage	20									
Radio talks	18									
TV talks	01									
Popular articles	19									
Extension Literature	14									
Advisory Services	500	600	50	650	75	25	100	25	0	25
Scientific visit to farmers field	171	508	189	697	35	6	41	117	11	128
Farmers visit to KVK	196	130	18	148	18	10	28	15	5	20
Diagnostic visits	45	117	17	134	9	2	11	9	4	13
Exposure visits	7	96	90	186		2	6	1	3	4
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp	01	10	3	13	2		4	12	5	17
Agri mobile clinic										
Soil test campaigns										
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify)	9	469	308	777	16	10	26	28	16	44
Any Other (Specify)										
Total	1094	14794	2438	17232	1522	433	1961	840	259	1099

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

Crop category	Name of the crop	Name of the Variety	Name of the Hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers to whom provided
Cereals	Paddy	Abhilasha	-	132.75	Amount Yet to be received	Seed Unit , UASD
Oilseeds						
Pulses	Blackgram	DU-1	-	0.51	3720	Seed Unit , UASD
	Greengram	D3GV-5	-	1.69	16800	
	Greengram	IPM	-	0.13	804	
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						
Fiber crops						
Forest Species						
Others : Sunhemp	Sunhemp	-	-	1.75	3420	04
Total				136.83		04

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Commercial						
Vegetable seedlings						
Fruits	Guava	-		09	90	02
Ornamental plants						
Medicinal and Aromatic						
Plantation						
	Arecanut	SAS-1		1800	27000	08
Spices	Blackpepper	Paniyur-1		7750	116250	28
	Vanilla	Local		90	5400	04
	Cardamom	Mudigere-1		2400	36000	01
Tuber						
Fodder crop saplings	Guinea	-		120	60	01
Forest Species	Melia dubia			1165	17475	04
	Neem			50	500	1
	Red Sanders			16	240	01
	Sandal			60	900	01
	Silver oak			50	750	01
Fodder Trees	Sesbania			100	1000	0
Total				13610	205665	52

9.C. Production of Bio-Products: NIL

9.D. Production of livestock materials : NIL

PART X – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND DROUGHT MITIGATION

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

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):

1. April-June 2017, 100 copies
2. Jul-Sept 2017, 100 Copies
3. Oct-Dec 2017, 100 Copies

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Diallel analysis in brinjal (<i>Solanum melongena</i> L.) for fruit yield, its attributes and bacterial wilt resistance	Santhosha, H. M., Indires, K. M. and H. B. Lingaiah	2017, <i>J. Pharmacognosy and phytochemistry</i> , 6(6): 860-872
	Fertility status in repeat breeding cows treated with various treatment	A. Walikar, T. Honnappa, S. Empalli and S. Shinde.	Accepted. 2018, <i>International Journal of Livestock Research</i>
	Glyricidia garland: a prominent livelihood option for sub forest dwellers	Roopa S Patil and Hanumanth M	Abstract in National conference on recent advances in creation conservation management & utilization of tree resources for sustainable future held at COF Ponnampet from 21-22 March 2018, 168 pp
	Bioefficacy of insecticides and biopesticides on Banana leaf roller(<i>Erionata torus</i> Evans)	Guru P N, Roopa Patil, Patil R K and Shreedhar Chatter	2018, <i>Journal of Entomology and Zoology studies</i> , 6(1):1343-1346.
	Validation of indigenous paddy plant protection measures adopted by farmers of Uttara Kannada district	Roopa S Patil and Javeregowda	Abstract in National conference on improving income of farmers through agril and aquaculture through development interventions held at CIFA, Bhuvaneshwar from 5-7 Jan 2018, 34 pp
	Pest Scenario and Appropriate Management for Bt Cotton in Belgaum district of Karnataka	Shashikumar, S. and Shweta Biradar	2017, <i>International Journal of Plant Protection</i>
Technical reports			
News letters			
Technical bulletins			
Popular articles	Drainage management in arecanut plantation	Santhosha, H. M. and Manju, M. J.	2017, <i>Krishi Kamadhenu</i> , 9 (12) :19-21
	Bush pepper cultivation in pot	Santhosha, H. M. and Venkatesh, L.	2017, <i>Krishi Kamadhenu</i> , 10 (1) :45-46
	Terrace garden	Santhosha, H. M. and Santhosh Shinde	2018, <i>Aishwarya krishi kannadanadu</i> , pp22-23

	Mara adharita krishi indina avashyakate	Venkatesh L, Rajakumar and Siddappa Kannur	2018, Krishi Munnade, 31(2):
	Krishi aranyakke sooktavada maragidagalu	Dr. venkatesh L and Dr. Santosh H M	2018, Krishi Munnade, 31(8):18-19
	Vaividyamaya Krishi: Yashogathe	Dr. Roopa S Patil and Annapurna Neeralgi	2018, Krishi Munnade, 31(3):34-35
	Kalumenasu raita vignyani : Narayan Hegde	Dr. Roopa S Patil and Annapurna Neeralgi	2018, Krishi Munnade, 31(2):34-35
	Bili nonada bhadeyinda balaluttiruva kabbu	Roopa S. Patil and Manjappa K.	2017, Negila Miditha, April: 25 p.
	Halasina Beejada cutlet	Akkamahadevi D. Agsimani and Roopa S. Patil	2017, Negila Miditha, April: 27 p.
	Hannu mattu tarakarigala shekarane mattu samskarane	Shweta Biradar and Shashikumar. S	2017, Sukhibhava Annadata April 3 -5.
	Chikku Hanninalliruva aarogya vruddi gunagalu	Shweta Biradar and Shashikumar. S	2017, Sukhibhava Annadata June : 40 -42.
	Tarasi totagarekeya savayava sasya samrakshane hagu kolalottara salahegalu	Shashikumar S and Shweta Biradar	2017, Krishi Kamadhenu, 9(6):26-29.
	Shunti: aoushadiya gunagalu	Shweta Biradar	2017, Krishi Kamadhenu 9 (8); 20 – 22.
	Karugala palaneyalli nibhayisabekada vaidyanika kramagalu	Santosh Shinde and Shweta Biradar	2017, Krishi Kamadhenu 9 (8); 30-33.
	Makkala Pratibheya Poshane	Shweta Biradar	2017, Krishi Kamadhenu 9 (10); 30 – 33.
	Aarogyakke varadana vagiruva karibevineleya visheshate	Shweta Biradar and Shashikumar. S	2017, Krishi Kamadhenu 9 (10): 37 – 39.
	Nisolex thaimus reshme huluvinu Uzi nonada jaivika pide niyantrana	Huchhesha C, Shashikumar. S and Shweta Biradar	2017, Krishi Jagarana 12: 56 – 58.
	Tarakari tota: Vidhyarthigalige krushi pata	Shweta Biradar and Shashikumar. S	2018, Krishi Kamadhenu 10 (1): 31 – 32.
Extension literature	Folders		
	Watermelon cultivation	Santhosha ,H.M., Manju, M. J. and Roopa S Patil,	2017, 500 copies
	Asexual propagation techniques in Horticultural crops	Santhosha ,H.M., Santhosh Shinde and Venkatesh, L.	2017, 1000 copies
	Hainu raasugalige staliya pashu ahara tayarike	Santhosh Shinde, Roopa S Patil and Santhosha, H. M.	2017, 500 copies
	Rasa mevu- Hasugalige besige kalakke bekaguva paryaya mevu	Santhosh Shinde, Santhosha,H. M. and Siddappa Kannuru	2017, 500 copies
	Hasugalalli supta kecchalu bavu	Santhosh Shinde, Roopa Patil, S. Murthy, Venkatesh L and Siddappa Kannuru	2017, 500 copies
	Rasa mevu- Hasugalige besige kalakke bekaguva paryaya mevu	Santhosh Shinde, Santhosha H M and Siddappa Kannuru	2017, 500 copies
	Hainu raasugalige staliya pashu ahara tayarike	Santhosh Shinde, Roopa S Patil and Santhosha H M	2017, 500 copies
	Grameena Mahileyarige Krishi Adharita Adayotpanna Chatuvatikegalu	R. H. Hanumanaikar, Shweta Biradar and Praveenkumar Agasimani	500 copies

	Uppinakai Taiyarike	R. H. Hanumanaikar, Shweta Biradar and Praveenkumar Agasimani	500 copies
	Dinanityadalli Aahara Moulyavardhane	R. H. Hanumanaikar, Shweta Biradar and Praveenkumar Agasimani	500 copies
	Soppina Tarakariglannu Sevisiri Aarogyavantaragir	R. H. Hanumanaikar, Shweta Biradar and Praveenkumar Agasimani	500 copies
	Jenu nonagala pramukha shatrugalua mattu rogakala nirvahane	Roopa S Patil, Manjappa K., Shivashenkaramurthy M, Siddappa Kannur, Venkatesh L, Santosh H M, Santosh Shinde, Shweta Biradar	Aug, 2017 500copies
	Leaf lets		
	Water and nutrition management in Arecanut	Santhosha, H.M. and Shivashanakaramurthy	2017, 500 copies
	Water and nutrition management in Banana	Santhosha, H.M. and Shivashankaramurthy	2017, 500 copies
	Black pepper production technology	Santhosha, H.M, Manju M J, Roopa Patil & Annapurna Neeralgi	2018, 500 copies
Others (Pl. specify)			
TOTAL			

10.B. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
01	CD	Grafting Techniques	01

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

Title : Modified Prostaglandin (PG) protocol for treating repeat breeding cows: way to enhance the profit in dairy animals

Background : Reproductive inefficiency of cattle due to repeat breeding syndrome is an expensive hitch in profitable dairy production and its incidence is around 20-25% in Uttara Kannada district of Karnataka. Most of the cows in Sirsi area were showing variation in heat signs and duration of heat was very prolonged. The probable reason for higher incidence may be attributed to low nutrient levels in fodder and imbalanced hormone levels in body. During study, the blood picture of repeat breeding cows revealed deficiency of calcium (Ca) and phosphorus (P) and the probable reason may be leeching of surface minerals by leeching effect of soil due to heavy rainfall.

Interventions

Process : The repeat breeding cows selected after following proper criteria's like more than three artificial insemination with regular oestrous cycles without any signs of pregnancy. Before initiation of treatment blood was collected from all cows for macronutrient (Ca, P, Mg) estimation. All selected animals were initially fed with dewormer (once) and mineral mixture (up to 20-30 days). The clinical examination was done to rule out clinical infection in reproductive tract.

Technology : Group of repeat breeding cows were injected with double dose PG at 11 days intervals and treated with GnRH at the time of AI and pregnancy status was diagnosed at 45 to 60 days of post AI. To check the effectiveness of treatment, another group of repeat breeding cows not treated with above protocol and they served as control.

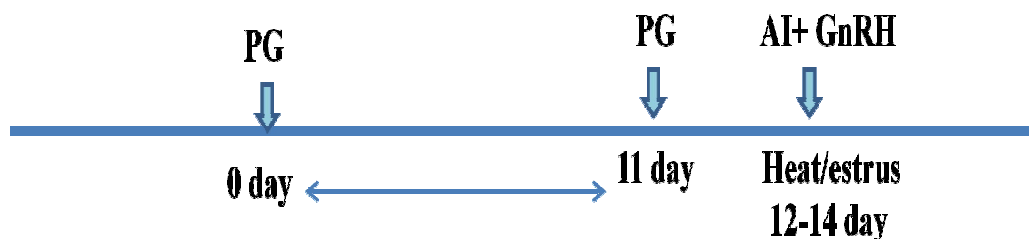


Fig: Modified PG protocol treatment in repeat breeding cows



Treatment and insemination of cows



Pregnancy Diagnosis in cows

Impact: The group of repeat breeding cows treated with modified PG protocol had higher conception rate (83.33%). Further, the duration of heat in all animals was between 24-48 hours. Because of this treatments the farmers felt big relief as the culling of high valued dairy cows and economical losses was reduced.

Horizontal Spread: Initially around 12 repeat breeding cows were treated with this protocol under FLD. Due to the positive results (higher conception rate) the treatment expanded and reached to more than 30 farmers who have kept repeat breeding cows since one year with hope of getting the animal pregnant in next heat. The information related to management of repeat breeding was spread via original farmers (cows already been treated) and trainings. Further, the repeat breeding cows were treated and still it is expanding to surrounding blocks of Uttar Kannada district.

Economic gains: On economics calculations after consideration of feeding losses and milk loss for two months, the net gain was around Rs. 21,000/- in treated group compared to control group. Hence, considering the total cost (around Rs. 1050-1100/-) for treating the repeat breeding cow, the use modified PG protocol could be appropriate technology to improve fertility and net profit after treatment in repeat breeding cows.

Employment Generation: NIL

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

- Whatsapp group of DAESI Trainees including scientists of KVK, COF Sirsi is created and solutions /suggestions to the problems are given through the group.

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

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
01	Areca nut	Use of <i>strychnos nux vomica</i> (Kasaraka) plant parts for the management of pests	Management of Areca nut root grub.

10.F. Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women : Farmers visit to KVK, Probable outbreak of pest/disease, Field Visits and Requests from the farmers and development departments.
- Rural Youth : -
- Inservice personnel : -

10.G. Field activities

- Number of villages adopted : 02 (Gudnapur, Kanagod)
- No. of farm families selected : 20
- No. of survey/PRA conducted : 01

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Running

- Year of establishment : 2005
- List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	pH meter	1	8,000
2	EC meter	1	8,000
3	Microjeldahl N distillation Unit	1	1,00,000
4	Plant Sample digestion Unit (Kjeldahl)	1	1,00,000
5a	Distillation Unit (Glass double)-5 l/ hr	1	10,000
5b	Distillation Unit (Glass double)-1 l/hr	2	10,000
6	Spectrophotometer	1	40,000
7	Flame photometer	2	80,000
8	Hot Air Oven	1	20,000
9	Willey mill (Plant sample Grinder)	1	25,000
10	Hot plate	1	10,000
11	Horizontal Shaker	2	64,880
12	Weighing Balance (Cap 500 g, Acc 0.1 g)	1	5,000
13	Weighing Balance (Cap 100 g, Acc 0.001 g)	2	106479
14	Digital pH meter	1	11500
15	EC Bridge	1	10300
16	Atomic absorption spectro photometer	1	15,00,000
	Total	21	21,09,159.00

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	9262	9262	5287	16,55,636
Water Samples	4566	4566	3114	4,76,400
Plant samples				
Manure samples				
Others (specify)				
Total	13,828	13,828	8,401	21,32,036

Details of samples analyzed during the 2017-18 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	2389	2281	1518	1,68,400
Water Samples	2155	2100	1420	1,07,750
Plant samples				
Manure samples				
Others (specify)				
Total	4544	4381	2938	2,76,150

Details of soil health cards issued during the 2017-18 :

Date (s)	Farmers participated	No. of Samples analyzed	Soil health cards issued	No. of Villages	Public representatives participated	
					MLA/Minister	Other Dignitaries/ Chief guests
Dec 5	337	108	108	100	Vishweshwar hedge Kageri	--

10.I. Technology Week celebration during 2017-18 Yes/No, If Yes

Period of observing Technology Week: From 29.01.2018 to 02.02.2018

Total number of farmers visited : 211

Total number of agencies involved : COF Sirsi, HREC, Terakanalli, UHS Bagalkot , AHVS Karwar

Number of demonstrations visited by the farmers within KVK campus : 70

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies			
Lectures organized	05	211	<ul style="list-style-type: none"> Scientific Crop Production technologies in important crop of the district. Hydroponics Demonstration to Field Vets Scientific Dairy Management
Exhibition	01	50	<ul style="list-style-type: none"> Exhibition of Machines wrt Processing and grading of spices
Film show	01	29	<ul style="list-style-type: none"> Grafting technique in horticulture crops
Fair	-	-	
Farm Visit	04	30	<ul style="list-style-type: none"> Visit to progressive farmers fields
Diagnostic Practicals			
Supply of Literature (No.)	02	100	<ul style="list-style-type: none"> Management of mastitis in cows Water and Nutrient management in banana and arecanut
Supply of Seed (q)	-	-	
Supply of Planting materials (No.)	-	-	
Bio Product supply (Kg)	-	-	
Bio Fertilizers (q)	-	-	

PART XI. IMPACT

11.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)
Use of green manure crops(diancha, sunhemp) in paddy	350	65	Net profit: 15000/ha	Net profit: 35000/ha
Seed treatment (Fungicides) in paddy	400	80		
Bio-fertilizer application in paddy	220	25		
Lime application in paddy & arecanut	500	92		
Micronutrient application	400	61		
Pest & disease management agricultural and horticultural crops	450	55	Net profit: 30000/ha	Net profit: 55000/ha
Rhizome rot management in ginger	200	95	Net profit: 300000/ha	Net profit: 600000/ha
Rootgrub management through <i>Metarrhizium</i>	500	85	Net profit: 280000/ha	Net profit: 500000/ha
Quick wilt and berry drop management in blackpepper	250	75	Net profit: 100000/ha	Net profit: 600000/ha
Pre-emergent weedicid application in Maize	150	15	Net profit: 25000/ha	Net profit: 65000/ha

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

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

11.B. Cases of large scale adoption

1. Integrated Crop Management in Paddy:

ICM package for profitable paddy cultivation is being popularized in the operational area through FLDs, Trainings.

- a. Incorporation of green manure crops : Use of Sunhemp and diancha as green manure crops
- b. Application of Lime in acidic soils
- c. Soil test based Zn, B application.
4. Scientific Plant Protection measures.

The technology is being followed by 80% of farmers in the operational area.

2. Use of pre-emergent weedicides in Maize:

Atrazine is used as pre-emergent weedicid in effective management of weeds and reducing cost of cultivation. The technology is popularized in maize growing talukas through FLD. Nearly in an area of 1600 ha in Mundagod Taluka, 700 ha in Haliyal Tq. and 350 ha in Sirsi Tq. atrazine is used during 2017-18.

3 Use of bio-fungicide to manage diseases in horticultural crops:

Trichoderma and pseudomonas are popularized as fungicides through trainings for prevention of diseases in blackpepper and ginger. The technology has yielded positive results. Presently 25% of ginger and blackpepper farmers are using these technologies.

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

IMPACT OF VOCATIONAL TRAINING ON TAILORING

Tailoring is one of the non agricultural, skill oriented livelihood activity promoting self reliance to the unemployed rural youths and women which in turn provides the economic access and income generating portfolio. It targets equipping stakeholders with skills in tailoring and also for income generation through making and marketing of tailoring products like garment making, cloth sewing, preparation of cloth bag, cloth jewellery bags so on and so forth.

The vocational skill oriented tailoring programme was brought on board by Dr. Shweta Biradar, Scientist – Home Science, ICAR – Krishi Vigyan Kendra, Uttar Kannada to 22 rural women of Agasal Bommanalli of Sirsi Taluk. These 22 women who had little knowledge about stitching were provided with 5 days training on tailoring at Agasal Bommanalli.

Mode of Approach

Community group model was used to train the women, wherein a resource person with the tailoring skill from their community was identified and asked to provide tailoring skills to the trainees. Mrs Vinoda Bhat was identified as resource person. The training initially started with simple baby dress, saree blouse stitching to more complicated salwar kameez, designer blouses, cloth bags and jewellery bags.

Out come

The outcome of the training programme was very promising with the stellar percentage of 100. All the 22 trainees are equipped with tailoring skill. Out of 22 women, 10 women have taken up tailoring as their enterprise along with their domestic and agricultural activities. Remaining 12 women stitch the garments for themselves and their family members. Few case studies are mentioned below:

Suverna Hegde from Targod village of Sirsi taluk one of the trainees earns Rs 1500 per month by stitching designer blouse for Rs 150 per blouse. On an average she stitches 10 designer blouses per month. She says *“I am very happy that my skills are honed by attending this training programme. I feel self reliant and economically secured. My family members are also happy. The guests who arrive at my home appreciate my work; it gives me a sense of confidence. I also stitch cloths for my relatives and my neighbours”*.

Rajalaxmi Bhat from Bommanalli village of Sirsi taluk who was a home maker, now earns on an average Rs 1000 per month by stitching cloth hand bags for Rs 70 per bag. She says *“I got a big opportunity to explore my skills and add to my family income by undergoing the training on tailoring organized by ICAR – KVK, UK”*.

Ganga Bhat another trainee from Agasal Bommanalli village of Sirsi taluk expresses her happiness by sharing her economic independence. She says *“I use to sit idle at home earlier, I use to feel redundant. But after undergoing training I earn Rs 2000 per month by stitching Salwar Kameez for Rs 200 per Salwar Kameez. I make efficient use of my time. I balance mu domestic as well as my business”*.

Impact to individuals

Trainees are carrying out tailoring businesses to the nearby markets also and at the trading centers and are earning income. Trained members are trying to buy their own sewing machines.

Impact to the community There is service for cloth repair with in the community, all types of cloth styling is now being made by trainees. They keep venturing and looking for more skills on cloth design to keep on the market hence improving on their tailoring capability.

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
BAIF, Institute for rural development	Trainings, field day, field visit, workshop
State Dept. of Agriculture	Trainings, demonstrations, seminars and field days.
State Dept. of Horticulture	Training programmes, demonstrations, seminars and field days, soil testing
Thotagar's Service Society, Sirsi	Trainings, input procurement, seminars.
State Dept. of Animal husbandry & Veterinary Sciences	Animal Health Camps, trainings.
Grameen Banks	Guidance to beneficiaries about schemes in Trainings
Water shed department	Trainings.
All India Radio, E-TV, Udaya, Chetan TV and Door Darshan	Publicity and transfer of technology
Kadamba charitable trust, Sirsi	Trainings, method demonstration, meetings, Seminars.
Kadamba Marketing & Co-operative Society, Sirsi	Trainings, Melas, SHGs, Marketing
Snehakunja Charitable Trust, Honnavar	Training & method demonstration.
Farmers clubs	Trainings, demonstrations, seminars and field days.
Sri Kshetra Dharmastala Grameenabhivrudhi Yojane (SKDRDP)	Seminar, Field day.
SRIJAN NGO	Trainings and Field Visit and Field days
MANU VIKAS NGO	Field days and Field visits
Canarabank Deshpande Rudeset, Haliyal	Trainings, field visits, meetings
Jnana Joythi Financial Literacy Centre, Sirsi	Trainings
The Agricultural Service and Development Cooperative Society Ltd.	Trainings, Services(supply of inputs)
GGSSS, Ltd Nanikatta, Siddapur tq.	Trainings, FLDs, Method demos
Madhukeshwar FPO, Banavasi	Technical backstopping
Pragati FPO, Banavasi	Technical backstopping
Karnataka Forest Department	Trainings, Field visits
KMF	Trainings, Demonstrations
Department of Women and Child Development	Primary data collection on women and children
RUDSETI	Organizing training programmes for women SHG's
Line departments	Organizing training programmes, income generating activities for women for women, participation as recourse person

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Staff Research Project : Characterization and evaluation of local bird eye chilli genotypes as intercrop in Arecanut	11.07.2017	UAS, Dharwad	2,00,000.00
Staff Research Project : Augmentation of fertility in cross bred repeat breeding cows with modified PG (prostaglandin) protocol	2017-18	UAS, Dharwad	3,00,000.00
Mass multiplication of Melia dubia and Mappia foetida in Uttara Kannada district of Karnataka	2017-18	UASD	2,00,000.00

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

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

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings				
02	Research projects				
03	Training programmes	Guest Lectures	23	0	-
04	Demonstrations				
05	Extension Programmes				
	Kisan Mela				
	Technology Week				
	Exposure visit				
	Exhibition				
	Soil health camps				
	Animal Health Campaigns				
	Field Visits	Diagnostic Visits	13	0	-
	Member is judgement committee	Selection of taluka level best farmer awards	06	-	All 11 talukas
06	Publications				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	Other Activities				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
01	CSS-MIDH	Production of planting material and training programme	1,35,000.00	1,34,993.00	Nil

12.E. 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

12.F. Details of linkage with RKVY : NIL

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

12. G Kisan Mobile Advisory Services

Month	Message type	SMS/voice calls sent (No.)						Total SMS/Voice calls sent (No.)	Farmers (No.)
		Crop	Livestock	Weather	Marketing	Awareness	Other enterprises		
April 2017	Text	0	0	0	0	0	0	0	0
May	Text	0	0	0	0	0	1	1	9440
June	Text	6	2	11	0	0		19	10215
July	Text	6	0	6	0	0	4	16	10215
August	Text	5	0	5	0	0	2	12	10215
September	Text	0	1	4	0	0	3	8	10218
October	Text	1	0	4	0	0	0	5	10220
November	Text	10	0	0	0	0	0	10	10223
December	Text	3	1	0	0	0	0	4	10244
January 2018	Text	9	1	0	0	0	0	10	10244
February	Text	6		1	0	0	0	7	10256
March	Text	3		2	0	0	2	7	10256
Total		49	5	33	0	0	12	99	

13.E. Utilization of hostel facilities

Accommodation available (No. of beds): 25

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2017	12	39	
May	17	46	
June	10	24	
July	8	24	
August	10	29	
September	10	22	
October	13	34	
November	107	46	
December	45	39	
January 2018	21	16	
February	24	22	
March	14	14	

13.F. Database management

S. No	Database target	Database created (Excel)
01		Trainings
02		FLD Details
03		OFT Details
04		Field Visits
05		Method Demonstrations
06		Farmer Visits to KVK
07		Phone Calls
08		Seminars/Workshops Organized
09		Seminars/Trainings/Workshops attended
10		Special Programmes
11		KMAS
12		Guest Lectures
13		Field Days
14		Electronic Media
15		Publications
16		Seeds/Planting Material
17		Farm Production

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

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

PART XIV - FINANCIAL PERFORMANCE**14.A. Details of KVK Bank accounts**

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	-	-	-	-	-	-	-
With KVK	SBI, Sirsi	SIRSI	917	Programme Coordinator, KVK UK	30157809532	581002401	SBIN0000917
		SIRSI	917	KVK Revolving Fund	10816617558		
		SIRSI	917	Group Leader, UAS Diary	10816629030		
		SIRSI	917	EXTN.LEADER,EXTN.E DUTN.UNIT	10816617296		
Current A/c NO.		SIRSI	917	Programme Coordinator KVK	36527784252		

14.B. Utilization of KVK funds during the year 2017-2018(Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	8754000	8754000	8575529
2	Traveling allowances	200000	200000	173011
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	200000	200000	210514.50
B	POL, repair of vehicles, tractor and equipments	200000	200000	205508
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	110000	110000	76560
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	55000	55000	54482
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	200000	200000	174878
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	30000	30000	13912
G	Training of extension functionaries	10000	10000	10267
H	Maintenance of buildings	400000	400000	5800
I	Establishment of Soil, Plant & Water Testing Laboratory	35000	35000	33113
J	Library	2000	2000	2314
K	IFS	50000	50000	43420
L	Farmers Conclave	25000	25000	23875
M	Farmers Field School	30000	30000	24164
N	Extension Activities	110000	110000	38224
TOTAL (A)		10411000	10411000	9665571.50
B. Non-Recurring Contingencies				
1	Works	0	0	0
2	Equipments including SWTL & Furniture	0	0	0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0	0	0
4	Library (Purchase of assets like books & journals)	0	0	0
TOTAL (B)		10411000	10411000	9665571.50
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		10411000	10411000	9665571.50

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2015 to March 2016	694570.52	890297	1009462	575405.52
April 2016 to March 2017	575405.52	1934128.50	1546874	962660.02
April 2017 to March 2018	962660.02	1068409	999961.5	1031107.52

15. Details of HRD activities attended by KVK staff

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
Dr. Roopa S Patil	Scientist(Plant Protection)	Pest risk analysis “ A tool in selection of quality planting material and pest forecast”	NAU, NAVASARI	1-11-2017 to 21-11-2017
Dr. Roopa S Patil	Scientist(Plant Protection)	Orientation training on latest and emerging technologies of NBAIR	NBAIR, Bengaluru	5-02-2018
Dr. Roopa S Patil	Scientist(Plant Protection)	Early career Motivation of Assistant professors	UAS, Dharwad	26-30 – Nov-2017
Mr. Venkatesh L	Scientist (Agroforestry)	Orientation of KVKs Scientists	KVK Gadag	10-12 –Aug- 2017
Mr. Venkatesh L	Scientist (Agroforestry)	Early career Motivation of Assistant professors	UAS, Dharwad	26-30 – Nov-2017
Mr. Venkatesh L	Scientist (Agroforestry)	Statistical Techniques in Agricultural Research (STAR)	UAS, Dharwad	19-12-2017 to 8-01-2018
Dr. Santosh H M	Scientist (Horticulture)	Orientation for newly recruited staff of KVK	KVK, Gadag	09.08.2017 to 12.08.2017
Dr. Santosh H M	Scientist (Horticulture)	Orientation Training on latest and emerging technologies of Horticulture	IIHR, Bangalore	09.02.2018
Dr. Santosh Shinde	Scientist (Animal Science)	Induction training for newly recruited faculty	UAS, Dharwad	24.04.17 to 06.05.2017
Dr. Santosh Shinde	Scientist (Animal Science)	Skill for profitable agriculture through mechanization	EEl, Hyderabad	25.07.17 to 29.07.17
Dr. Santosh Shinde	Scientist (Animal Science)	Orientation for newly recruited staff of KVK	KVK, Gadag	09.08.2017 to 12.08.2017
Dr. Santosh Shinde	Scientist (Animal Science)	Sensitization workshop on profitable technologies in Brackishwater aquaculture for doubling of farmers income	ICAR-IISR, Calicut	15.01.2018 to 16.01.2018
Dr. Santosh Shinde	Scientist (Animal Science)	Orientation Training on latest and emerging technologies of Livestock	NIANP, Bangalore	06.02.2018
Dr. Shweta Biradar	Scientist – Home Science	Induction training programme	UASD	24.04.2017 to 06.05.2017
Dr. Shweta Biradar	Scientist – Home Science	Strategies for mainstreaming women in agriculture	MANAGE, Hyderabad	19.06.2017 to 22.06.2017
Dr. Shweta Biradar	Scientist – Home Science	Orientation training programme to KVK Staff	ICAR – KVK, Gadag	10.08.2017 to 10.08.2017
Dr. Shweta Biradar	Scientist – Home Science	Spectrum Of Human Development: Reaching Horizons	Avinashlingam University, Coimbatore	24.01.2018 to 25.01.2018
Mrs. Annapurna Neeralgi	Prg. Asst (Computer)	Orientation Training Programme for PA (Computers)	UASD	11-13 Dec 2017

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

State Level Spice Convention – 2018

As continuation of our effort to help the farming community, Krishi Vigyan Kendra, Uttara Kannada, Sirsi organized **State Level Spice Convention at Sirsi on 26th February 2018** under financial assistance of CSS-MIDH scheme, in association with Farmers' cooperative Societies like TMS, TSS and Kadamba Marketing, Research Institutions like HREC, CoH and CoF and Department of Horticulture (GoK). The main objective of the conference was to create awareness on post-harvest management and marketing aspects to meet international quality standards, promotion of organic farming and to create the platform for spice traders and spice growers. Spice traders involved in international trading like AVT McCORMIC Ingredients Pvt. Ltd. (Cochin), Synthite (Ernakulam), Unicorn Natural Products Ltd (Hyderabad), Sresta Natural Bioproducts Pvt. Ltd (Hyderabad), Big Basket (Bengaluru), Prakruti (Karwar), Phalada Agro (Bengaluru) were participated in the event.

Shri. Kankodi Padmanabha, National Vice President, Sahakara Bharati inaugurated the event by lighting the lamp. Dr. V. I. Benagi, Director of Research, UAS, Dharwad inaugurated the exhibition, Shri. Bhavaralal Arya, Incharge of Karnataka for Patanjali Groups participated as guest, Dr. H. Basappa, Director of Extension, UAS, Dharwad presided the event.

During the event, exhibition of live specimen of different varieties of black pepper, nutmeg, all spices, ginger, turmeric, essential oils and oleoresin of different spices were exhibited. Live demonstration of Post harvest machines was also organized.

In the afternoon session the Technical Session was chaired by Dr. Venugopal, Principal Scientist (Rtd), IISR, Appangala who gave elaborated lecture on post harvest handling and production of quality spices with special emphasis on black pepper. Dr. L. N Hegde, Head, HREC, Sirsi gave information about the district scenario regarding various spice crops and other resource persons discussed about production technologies of different spices and international standards for trading.

This event provided a platform for buyers and growers to share their views through interaction. The buyers specified the quality of the produce required for international trading and demand for organic produce. Nearly 400 farmers/farm women participated in the event.

Next day i.e., on 27.02.2018 a meeting was organized between the traders and the member of the local market hub to discuss about the future suitable marketing channels in the district. On the same day field visits were made to the plots of spice growers along with buyers.

OUTCOME :

Seeing the quality of the produce, following companies have procured the spices through Kadamba Marketing, Sirsi

Firm	Spice	Quantity Procured	Remarks
AVT Pvt. Ltd	Blackpepper	10 tons	through Kadamba Marketing
	Termeric	10 tons	
	Ginger	10 tons	
Bigbasket	Blackpepper	5 ton	
	Termeric	5 ton	

II. Demonstration of IFS Models:

No. of Demonstrations : 09

Budget Allocated : 50,000

S.No	Farmers name	Expenditure		Gross income		Net income	
		Before	After	Before	After	Before	After
1	Vinayak Hegde, Tataguni, Sirsi	128000	162500	543250	850500	415250	688000
2	Veerendra Gowda, Santolli, Sirsi	280000	590800	418000	1442000	138000	851200
3	Keriyappa Bishappa Naik, Gudnapur, Sirsi	48800	87000	80750	164500	31950	77750
4	Dhananjaya Sheth, Gudnapur, Sirsi	91000	111000	181100	258700	90100	147700
5	Veerendra Kumar Desai, Kalli, Sirsi	-	17500	3000	76950	-	59450
6	P. M. Hegde, Kenchagadde, Sirsi	156000	205000	575000	871600	419000	66600
7	A. T. Hegde, Kenchagadde, Sirsi	Seedlings of black pepper are distributed, vegetative stage.					
8	Narasimha Murthy Hegde, Ashisar, Sirsi						
9	Manjunath Bangarya Jogi, Achanalli, Sirsi						

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