

ICAR-ATARI – ZONE XI, BENGALURU

ACTION PLAN OF KVKS IN ZONE XI FOR THE YEAR 2019-20

1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with phone, fax and e-mail ID	:	ICAR-Krishi Vigyan Kendra, Uttara Kannada 08384-228411, kvk.Uttarakannada@icar.gov.in, kvkuks@gmail.com
1.2	Name and address of host organization	:	University of Agricultural Sciences, Dharwad
1.3	Year of sanction	:	2004
1.4	Website address of KVK and date of last update	:	www.kvuttarkannada.org , 4.02.2019

2. Details of staff as on date

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If permanent, please indicate		Date of joining	If temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current pay band	Current grade pay		
2.1	Senior Scientist & Head/PC	Dr. Manju M.J	Pathology	37000-67000	9000	23.10.2017	
2.2	Scientist	Dr. Roopa S Patil	Plant Protection	15600-39100	7000	03.12.2008	
2.3	Scientist	Shri. Shivashankarmurthy M	Agronomy	15600-39100	6000	28.11.2011	
2.4	Scientist	Shri. Venkatesh L	Agroforestry	15600-39100	6000	05.05.2016	
2.5	Scientist	Dr. Shweta Biradar	Home Science	15600-39100	6000	17.02.2017	
2.6	Scientist	Dr. Santhosh H.M	Horticulture	15600-39100	6000	23.05.2017	
2.7	Scientist	Dr. Ranganath G.J	Veterinary Science	15600-39100	6000	18.07.2018	
2.8	Programme Assistant (Computer)	Smt. Annapurna F Neeralagi	Computer Science	9300-34800	4600	29.03.2010	
2.9	Programme Assistant (Lab Assistant)	Shri. Siddappa Kannur	Agroforestry	9300-34800	4600	02.08.2013	
2.10	Programme Assistant (Farm Manager)	Dr. Krishna K.S	Farm Manager	9300-34800	4200	14.02.2018	
2.11	Accountant/Superintendent	Smt. Sumalatha S.P	-	16000-29600	-	05.09.2015	
2.12	Stenographer	Vacant	-	-	-	-	
2.13	Driver 1	Shri. Balappa R Taragar	-	11600-21000	-	03.04.2018	
2.14	Driver 2	Vacant	-	-	-	-	
2.15	Supporting staff 1	Shri. Hazarat A Nadaf	-	10400-16400	-	-	
2.16	Supporting staff 2	Vacant	-	--	-	-	

3. Details of SAC meeting conducted during 2018-19

Date	Major recommendations	Status of action taken in brief	Reasons for no actions, if any
18.06.2018			
1	Each scientist should publish at least one agriculture related publication every month for the benefit of farming community	Details of publications during the year: Popular Articles : 14 Review Papers : 06 Folders : 10	
2	Technical backstopping should be provided to the FPOs in the district	Technical back stopping to the FPOs: 1. Madhukeshwar Horticulture Producers Company, Andagi, Banavasi : <ul style="list-style-type: none"> • FLDs on ICM in ginger, pineapple and banana were taken up in 1 ha each under CHMID Scheme of Dept. of Horticulture • Interstate Tour for 50 FPO members was organized to Tamilnadu and Mysore. • Trainings and demonstrations were organized. 2. Dhan Foundations Sirsi: <ul style="list-style-type: none"> • FLD on ICM in paddy • Diagnostic visits • Collaborative extension activities 3. Madhukeshwar Bhatta Utpadakar Company: <ul style="list-style-type: none"> • Diagnostic visits • Collaborative extension activities 	
3	Impact analysis of activities conducted by KVK is to be carried out, if necessary PG students may be involved to take up the study.		
4	Organize more training programmes on grafting techniques and document them	Training programme on Grafting techniques in plantation crops was organized on 25.08.2018, 30 farmers/farm women participated.	

5	KVK should form Paddy Green Force in the same line with KVK Mallapuram Kerala. If necessary KVK Team may visit the Mallapuram KVK		
6	Success story on impact of KMP-105 introduction in the district should be documented and upload it to the KVK Portal and KVK Website	The information on success of KMP-105 is uploaded to the KVK Portal.	
7	Quality breed of livestock should be included in the dairy unit and make the dairy unit a model for the farmers.	Two cows of ---- breed are added to the dairy unit.	
8	Send the SAC agenda items to the SAC members through email.	Will be sent	
9	Activity calendar of the KVK should be sent to line departments and other farmer groups.	Activity calendar for Kharif activities are sent to line departments.	
10	To address the labour problem in arecanut harvesting formulate an OFT.	Training cum demonstration on mechanized harvesting of arecanut is conducted at Puttanamane on 31.01.2019 . 20 participants were present. OFT is planned during 2019-20.	
11	Provide the information on banned chemicals and pesticides to the farming community with the help of KSDA	The information on banned chemicals and pesticides are provided to pesticide and fertilizer dealers, Dept. of Agriculture and Horticulture.	
12	Organize programmes on value addition of cashew apple and management of fruit fly in mango.	On the eve of International Women's Day on 8.03.2019, the knowledge on processing and value addition of underutilized fruits such as jackfruit, kokum, jamoon, cashew apple and income generating activities like mushroom cultivation, pappad making, pickle making was imparted to women SHGs for their financial upliftment and empowerment.	
13	Most of the KVK activities are concentrated around Sirsi, Siddapur, Yellapur and Mundagod talukas. It is suggested to extend the activities to other talukas of the district and invite the farmers of coastal talukas to SAC meeting.	KVK has organized many extension activities in Bhatkal(FLD, Seminar, DV, FV), Haliyal (Abhiyan, DV, FV, Guest Lectures), Yellapur(FLD, FV, DV, Guest Lecture) , Ankola(FLD, CFLD, DV, FV, Abhiyan, Guest lectures) and Kumta(FLD, CFLD, DV, FV, Abhiyan, Vocational Trainings, Guest lectures) talukas also along with Sirsi,Siddapur, Yellapur and Mundagod talukas.	

14	Organize the programmes on management of foot and mouth disease in collaboration with Dept of AHVS	6 guest lectures , 02 training programmes were organized and information on Foot and Mouth disease management. KVK co-organized Cattle Exhibition on 10.12.2018 at Dasanakoppa village in collaboration with AHVS, Sirsi.	
15	Organize programmes in collaboration with Fisheries department.		
16	Organize SAC before the Action Plan meeting and before onset of monsoon.		
17	Organize programmes on value addition of bamboo.		
18	Organize training programmes to extension personnel, interaction with scientists are to be organized. The pretest and post test evaluation are to be taken up.	2 programmes for Extension personnel is organized.	
19	There is ample opportunity for apiculture in the district. KVK should develop apiculture demonstration unit and organize trainings.	Organized ASCI Sponsored skill Development Training programme on Bee Keeper for 25 days (11.2.2019 to 7.3.2019) for 20 farmers/farm women	

4. Details of operational areas proposed during 2019-20 (Please refer to the implementation plan of DFI)

Clusters	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise that limit yield and income	Extent of area (ha/No.) affected by the problem in the village	Proposed intervention (OFT, FLD, Training, extension activity etc.)*
Cluster A : Dodnalli (Sirsi Tq)				
Dodnalli,	Paddy	Poor soil fertility, blast incidence, leaf folder, stem borer, BPH & ear head bug infestations.	63.57 ha	FLD, Training Programmes, Official-Scientist-Farmers Interaction, Field Visits, , Method Demonstrations and Field Day
	Black gram	Poor soil fertility, low yield, sucking pests, powdery mildew, moisture stress	8 ha	FLD, Training Programmes, Method demonstrations, Field day, field visits
	Green gram	Poor soil fertility, low yield, sucking pests, powdery mildew, moisture stress	8 ha	FLD, Training Programmes, Method demonstrations, Field day, field visits.
	Sugarcane	Poor fertility, low yield, poor quality jiggery	10 ha	Training Programmes, Method demonstrations, Field day, field visits
	Farm Mechanization	Labour problem	63.57 ha	Paddy Task Force, Training for Extension personnel

	Black pepper	<ul style="list-style-type: none"> Sucking insects - scales, mealy bugs 	2.25ha	OFT : Eco-friendly management of sucking pests in Black pepper Trainings : 1. Identification of damage symptoms by sucking insects and Management 2. Rugose spiralling whitefly - a possible threat to Black pepper
	Black pepper	Wilt disease in black pepper	4 ha	OFT : Evaluation of grafting technology to manage wilt disease in black pepper Training : ICM in black pepper
	Arecanut	<ul style="list-style-type: none"> Labor scarcity during peak harvesting period, risk of harvesting Nut splitting, Premature Nut drop, Fruit rot disease, Low yield 	6 ha	OFT : Evaluation of Arecanut harvesting equipment and machine FLD : ICM in Arecanut Training : Arecanut harvesting and pesticide application techniques Training : Use of machines for arecanut harvesting Training : ICM in Arecanut Training : Nutrition management in Horticulture crops based on soil test results
	Aromatic crops	Inappropriate use of home garden	30 ha	FLD : Popularization of Ylang-ylang in Home gardens (Agro-silvopastoral system) of Uttara Kannada : An additional source to the farm income Workshop : Workshop on promotion of aromatic plants for sustainable livelihood
	Livestock	Repeat breeding	75 no.	FLD : Modified PG protocol, trainings, field visits
		Anestrus	60 no.	FLD : CIDR synch protocol, trainings, field visits
		Mastitis	170	FLD : Preventive strategies for mastitis, trainings, field visits, method demonstration
		Fodder scarcity	35% of the population	FLD : Improved guinea and stylosanthus grasses, trainings, field visits, method demonstration
		Metabolic and infectious diseases	41% of the population	Trainings, field visits, Health camp
	Nutritional Garden	Poor nutritional status of the rural women and lack of knowledge regarding importance of nutrients	1 in 5 rural women are malnourished (source: Women and Child Development Dept.)	FLD : Nutritional Garden for farm families Trainings, Field visits, Field day

	Kokum	Underutilized fruit, lack of awareness on value addition of kokum	80 - 90 percent wastage of fruits	FLD: Value Addition of Kokum, Trainings, Field visits
	Jackfruit	Under utilization of Jackfruit, lack of Awareness on value addition of jackfruit	-	EDP
	Banana	Unemployment, lack of Awareness on value addition of banana	-	EDP : Value addition of Banana
Cluster B : Haraganahalli, Mundagod Tq.				
Haraganahalli, Kolagi, Virapura	Paddy	Poor soil fertility, blast incidence, leaf folder, stem borer, BPH & ear head bug infestations.	142 ha	FLD, Training Programmes, Official-Scientist-Farmers Interaction, Field Visits, , Method Demonstrations and Field Day
	Maize	Low yield, poor soil fertility , weeds, stem borer, leaf Blight	78	FLD, Training Programmes, Field Visits and Field Day.
	Black gram	Poor soil fertility, low yield, sucking pests, powdery Mildew, moisture stress	15	FLD, Training Programmes, Method demonstrations, Field day, field visits
	Green gram	Poor soil fertility, low yield, sucking pests, powdery Mildew, moisture stress	10	FLD, Training Programmes, Method demonstrations, Field day, field visits.
	Banana	Lack of suitable variety for processing, low yield Unemployment, lack of Awareness on value addition of banana	8 ha	OFT: Evaluation of banana varieties for making processed food products Training: Post harvest management in banana EDP : Value addition of Banana
	Ginger	Rhizome rot disease, low yield	53 ha	FLD: Rhizome rot disease management in Ginger Training: ICM in Ginger Training: Post harvest management in ginger
	Nutritional Garden	Poor nutritional status of the rural women and lack of knowledge regarding importance of nutrients	1 in 5 rural women are malnourished (source: Women and Child Development Dept.)	FLD: Nutritional Garden for farm families, Trainings, Field visits, Field day
	Kokum	Underutilized fruit, lack of awareness on value addition of kokum	80 - 90 percent wastage of fruits	FLD: Value Addition of Kokum, Trainings, Field visits
	Jackfruit	Under utilization of Jackfruit, lack of Awareness on value addition of jackfruit	-	EDP

	Livestock	Repeat breeding	45 no.	FLD: Modified PG protocol, trainings, field visits
		Anestrous	22 no.	FLD: CIDR synch protocol, trainings, field visits
		Mastitis	190	FLD: preventive strategies for mastitis, trainings, field visits, method demonstration
		Fodder scarcity	35% population	FLD: improved guinea and stylosanthus grasses, trainings, field visits, method demonstration
		Metabolic and infectious diseases	39% of the population	Trainings, field visits
		Low SNF, fat content and slow growth and low milk yield		Method demonstration on enrichment of dry fodders, ensilaging, Trainings, field visits
Cluster C : Tippinageri, Halilyal Tq.				
	Paddy	Poor soil fertility , blast incidence leaf folder, stem borer, BPH & ear head bug infestations, low yield, moisture stress	54	Training Programmes, Official- Scientist-Farmers Interaction, Field Visits, , Method Demonstrations OFT: Assessment of Sabhagidhan paddy variety
	Maize	Low yield, poor soil fertility, weeds, stem borer , leaf Blight	35	
	Sugarcane	Weeds problems,poor fertility, water scarcity, low yield	10	Training Programmes, Method demonstrations, Field day, field visits
	Bt Cotton	Square and boll drop, shoot weevil, aphids, leaf hoppers, thrips, whiteflies, leaf spot, drudgery in harvesting	16 Ha	FLD : ICM in Bt Cotton Trainings : 1. Role of trap crop Bhendi in management of shoot weevil 2. Management of sucking insects 3. Square and boll drop management Method demonstrations : 1. Demo on Foliar spray of Planofix 2. Demo on installation of traps against PBW 3. Use of cotton picking bags
	Mango	Micro nutrient deficiency, fruit drop, powdery mildew, hoppers, fruit fly	5-10 trees/family	FLD:ICM in mango Training: ICM in Mango Training: Asexual methods of propagation in Horticulture crops
	Livestock	Fodder scarcity		--
Low SNF, fat content and slow growth and production				Trainings and field visits

		Metabolic and infectious diseases		Trainings and field visits
		Mastitis	15% of the population	FLD, trainings and field visits
	Poultry	low body weight, slow growth rate, low egg production and poor adaptability of backyard birds	70% of poultry population	OFT: Assessing the performance of backyard poultry varieties, Trainings, field visits, method demonstration
	Nutritional Garden	Poor nutritional status of the rural women and lack of knowledge regarding importance of nutrients	1 in 5 rural women are malnourished (source: Women and Child Development Dept.)	FLD: Nutritional Garden for farm families, Trainings, Field visits, Field day
Cluster D : Kalbagh, Kumta Tq.				
	Paddy	<ul style="list-style-type: none"> Poor soil fertility Blast incidence Leaf folder, stem borer, BPH & ear head bug infestations. 	60 ha 50 ha 40 ha	Training Programmes, Official- Scientist-Farmers Interaction, Field Visits, , Method Demonstrations and Field Day
	Ground nut	<ul style="list-style-type: none"> Leaf miner Low yield Moisture stress 	50 ha 60 ha 60 ha	FLD, Training Programmes, Method demonstrations, Field day, field visits.
	Coconut	<ul style="list-style-type: none"> Rugose spiralling whitefly 	48 ha	FLD : Management of RSW in Coconut Trainings : 1. Identification and damage symptoms of RSW and Management 2. Role of Natural enemies in RSW management Method demonstrations : 1. Installation of sticky traps Awareness Programme : In collaboration with NBAIR, Bengaluru
	Kumta Onion	Twisting problem, Sucking insects	7 ha	OFT : Management of Twisting problem in Kumata Onion Trainings : 1. Cause and Management of Twisting problem 2. Role of Trichoderma in management of diseases Method demonstrations : 1. Seed treatment with Carbendazim 2. Seedling treatment with biopesticides
	Watermelon	Malformed fruits, Poor pollination, Bud necrosis, Nutrient deficiency, Sucking pests	6 ha	FLD : ICM in Watermelon Trainings : 1. Yield enhancement techniques in watermelon

				<p>2. Management of sucking insects, stem blight, downy mildew, necrosis virus in watermelon</p> <p>3. Role of bee pollination in yield enhancement</p> <p>Method Demonstration :</p> <p>1. Demo on installation of sticky traps</p> <p>2. Demo on foliar spray of Arka vegetable special</p> <p>Field Day</p>
	Black pepper	Foot rot disease, low yield		<p>FLD: Foot rot disease management in blackpepper</p> <p>Training: ICM in black pepper</p>
	Poultry	low body weight, slow growth rate, low egg production and poor adaptability of backyard birds	70% of poultry population	<p>OFT: Assessing the performance of backyard poultry varieties,</p> <p>Trainings, field visits, method demonstration</p>
	Livestock	Reproductive problems, vector borne diseases	20% of the livestock population	Trainings
	Kokum	Underutilized fruit, lack of awareness on value addition of kokum	80 - 90 percent wastage of fruits	FLD: Value Addition of Kokum, Trainings, Field visits

5. Technology assessment during 2019-20

Sl.No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of technology	Name of critical input	Qty per trial (q)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members
5.1	Black pepper	Sucking insects - scales, mealy bugs	Eco-friendly management of sucking pests in Black pepper	Spraying with Dimethoate 2 ml/l	UHS, Bagalkot	Dimethoate	100 ml	65.00	05 (20 vines per trial)		Yield per vine Sucking insects populations (Scales, Mealy bug) Natural enemy population if any Economics	Scientist (Agril. Entomology, Horticulture) Sr. Sc and Head
				Spraying with Neem soap @ 10g/l	IIHR, Bengaluru	Neem soap	500 g	160.00				
				Spraying with Pongamia soap @10 g /l	IIHR, Bengaluru	Pongamia soap	500 g	140.00				
				Spraying with Neem oil @ 0.3%	IISR, Calicut	Neem oil	100 ml	120.00				
							Total	485.00		2425.00		
5.2	Kumata Onion	Twisting problem (Pathogens involved are <i>Colletotrichum</i> spp, Fusarium and Meloidogyne sp)	Management of Twisting problem in Kumata Onion	Spraying with different combination of pesticides					05 (10 gunt a per trial)		% disease incidence Bulb yield Economics	Scientist (Agril. Entomology, Agronomy, Horticulture) Sr. Sc and Head
				Soil application of Neem cake 5 q/ha + trichoderma 5 kg/ha Seed treatment with Carbendazim @ 2g/kg and seedling dip with <i>Pseudomonas fluorescens</i> 10 g/l, Spraying with Hexaconazole 0.1 % Multi K 5g/l and Boron 2g/l	Adhoc recommendation (Results of NABARD project)	Trichoderma <i>Pseudomonas fluorescens</i> Hexaconazole	500 g 250 g 250 ml	80.00 30.00 65.00				
							Total	725.00		3625.00		

5.3	Musturd, Sesamum	Low income	Assessment of Sesamum and Mustard in Paddy residual moisture	TO1: Blackgram		Black gram Seeds	2.5 kg	250.00	10		Plant height, No.of pods, Yield per plant, Economics, Feed back	Scientist (Agronomy, PP), SS & H
				TO2: Musturd		Sessamum	0.5 kg	100.00				
				TO3: Sesamum		Mustard	1.0 kg	200.00				
							Total:	550.0		5500.0		
5.4	Banana	Lack of suitable variety for processing, low yield	Evaluation of banana varieties for making processed food products	G-9 banana variety	Farmer practice	-	-		05		Yield (t/ha), organoleptic evaluation of processed products, B:C ratio	Scientist (Horticulture, Home science, Agronomy)
				Nendran banana variety	UHS (B)	Tissue culture banana plants	125	3125.0				
				Udhayam banana variety	NRC,Banana Tiruchirapalli	Tissue culture banana plants	125	3125.0				
							Total	6250.0		31250.0		
5.5	Black pepper	Wilt disease	Evaluation of grafting technology to manage wilt disease in black pepper	Planting of rooted runner shoot cuttings followed by Bordeaux Mixture spray	Farmer practice				05		Yield (t/ha), Intensity of slow wilt disease, B:C ratio	Scientist (Horticulture.), SS&H
				Planting of rooted runner shoot cuttings followed by application of carbofuran granules (50gm) and Metalaxyl (0.125%), Bordeaux Mixture spray	UHS (B)	Carbofuran granules	2.5 kg	250.0				
						Metalaxyl	0.5 kg	950.0				
		Panniyur-1 black pepper plants (rooted cuttings)	50	750.00								
		Planting of Panniyur-1 + <i>Piper colubrinum</i> grafted plant	IISR, Kozhikode	Grafted Panniyur-1 black pepper plants	50	1500.0						

				Planting of Karimunda + <i>Piper colubrinum</i> grafted plant	IISR, Kozhikode	Grafted Karimunda black pepper plants	50	1500.0				
							Total	4950.0		24750.0		
5.6	Arecanut	Labour problem during peak harvesting period, risk of harvesting	Evaluation of Arecanut harvesting equipment and machine	Manual climbing and harvesting	Farmer practice					0	Efficiency, B:C ratio	Scientist(Horticulture, Entomology)
				Telescopic model harvester	Private firm	Telescopic model harvester	01					
				Betelnut reaper (Arecanut harvester)	Agrimart	Betelnut reaper (Arecanut harvester)	01					
5.7	Poultry	Low production	Assessing the performance of backyard poultry varieties,	TO1-farmer practice					10		Morbidity rate, mortality rate, growth rate and egg production	Scientist Veterinary Science, home science, Agronomy
				TO2-Srinidhi	PD on poultry, Hyderabad	Chicks	60	2100.0				
				TO3-Kaveri	CPDO, Bengaluru	Pre-starter feed	50 kg	1800.0				
				TO4-kalinga brown	CPDO, Bengaluru							
							Total:	3900.0		39000.0		
5.8	Paddy	Low yield	Assessment of Sabhagidhan padd variety	TO1: MTU-1001	UASD				10		Plant height, no. of tillers, yield and economics, feedback	Sci (Agronomy)
				TO2: MGD-101	UASD	MGD-101 seeds	3.5 kg	105.0				
				TO3: Sabagidhan	CRRRI	Sabagidhan seeds	3.5 kg	105.0				
							Total:	210.0		2100.0		

6. Frontline demonstrations during 2019-20

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
6.1	Cereals	Paddy		Advanced Production Technologies for Profitable Paddy Cultivation	PSB-68	-	UASD	Soil Testing Diancha/ sunhemp seeds Paddy Seeds Azospirillum PSB ZnSO ₄ Butachlor Carbendazim 80 wp Tricyclazole 75 WP Imidacloprid 17.8 SL Chlorpyrifos 20 EC Malathion 50 EC	01 10kg 25kg 500g 500g 8kg 1.0 l 50 g 200 ml 120ml 800ml 600ml	200.00 800.00 800.00 30.00 30.00 500.00 350.00 60.00 500.00 200.00 350.00 200.00	20		Plant height, no. of tillers, yield, economics, feedback	Sci(Ag ronom y), Sci(Ent omolog y) SS&H
									Total:	4020.00		80400.00		
		Maize	Low yield, poor fertility, weeds, stem borer, Leaf Blight	ICM in Maize with Special Emphasis on Weed and Nutrient Management	-	CP-818 & NK 6240	UASD	Atrazine MOP ZnSO ₄ Borax Clorantrilip role Hexaconazole Soil Testing	1kg 25 kg 8 kg 1 kg 30 ml 250 ml 01	400.00 450.00 500.00 145.00 490.00 300.00 200.00	20		Plant height, cob length, cob weight, weed count, grain yield, economics, feedback	Sci(Ag ronom y), Sci(Ent omolog y) SS&H
									Total:	2685.00		53700.00		
6.2	Millets													
6.3	Oilseeds													
6.4	Pulses													
6.5	Commercial crops	Bt Cotton	Low yield, Sucking insects, boll and square drop,	ICM in Bt Cotton • Use of Bhendi crop as Trap Crop	-	BGII	UAS Dharwad	Bhendi seeds Flonic amide 20% WG @ 0.3 g/l Planofix @ 0.25 ml/l	500g 60 g	160.00 600.00	10		Sucking insects - Aphids and leaf hoppers population (No of	Scientist (Agril. Entomology, Agrono

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
			Drudgery in cotton harvesting	<ul style="list-style-type: none"> Management of sucking pests through Flonic amide 20 % WG @ 0.3 g/l 20% SG @ 0.15 g/l Management of boll and square drop through Planofix @ 0.25 ml/l Delta trap for PBW @ 2 per acre for monitoring and Lambda Cyhalothrin 0.5 ml/l spray for management Cotton picking bags 				Delta trap for PBW @ 2 per acre for monitoring Lambda cyhalothrin 5 EC Cotton bags Soil Testing	100 ml 2 trap + 4 lures 200 ml 05	95.00 200.00 195.00 1000.00 400.00			insects per 3 leaves) Yield and Economics (q/ha)	my) Sr. Sc and Head
								Total:		1750.00		17500.00		
6.6	Horticultural crops	Water melon	Low yield, Mal formed fruits, poor pollination, sucking insects, bud necrosis	<ul style="list-style-type: none"> Installation of Bee colony @ 1 per acre Pinching technique Foliar spray of nutrients Arka Vegetable special 5g/l, Fipronil 1ml/l 	-	Private	UHS Bagalkot and IIHR, Bengaluru	Bee colony with <i>Apis cerana</i> colony Arka Vegetable special Fipronil Metalaxyl + Mancozeb	01 2 Kg 500 ml 500 g	4000.00 400.00 650.00 800.00	05		Yield (crop and honey) and Economics Mal formed fruits % Wilting %	Scientist (Agril. Entomology, Horticulture) Sr. Sc and Head

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				against sucking insects Metalaxyl + Mancozeb 2g/l against Fusarium wilt										
									Total:	5850.00		29250.00		
		Coconut	Rugose spiralling whitefly	Introduction of parasitoid <i>Encarsia guadeloupeae</i> Spray of Neem oil @ 2% Yellow sticky trap 15 /ha and Light trap 2/ha	Local	-	NBAIR, Bengaluru	Neem oil 2% Yellow sticky traps	1 L 6	1200.00 100.00	15			Scientist (Agril. Entomology, Horticulture) Sr. Sc and Head
									Total:	1300.00		19500.00		
	Horticultural crops	Arecanut	Nut splitting, Premature Nut drop, Fruit rot disease, Low yield	<ul style="list-style-type: none"> Improvement of drainage in ill drained gardens Dolomite @ 250 g/Palm ZnSO₄@ 25 g/Palm Borax @ 25 g/Palm Remove and burn all fallen and fruit rot infected nuts Metalaxyl + Mancozeb (0.2%) spray before 	Sirsi local	-	CPCRI	Dolomite Borax ZnSO ₄ Metalaxyl + Mancozeb Soil test	1 q 3kg 3kg 1 kg 01	400.0 425.0 425.5 1900.0 400.0	05		Yield q/ha, % reduction in nut splitting and nut drop, no. of fallen infected nuts/palm (%), B:C ratio	Scientist (Horticulture, Entomology), SS&H

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
				onset of monsoon and 30-45 days after first spray										
									Total:	3550.0		17750.0		
		Mango	Micro nutrient deficiency, fruit drop, powdery mildew, hoppers, fruit fly	<ul style="list-style-type: none"> Spraying of Mango special (5gm/l) once before flowering (October-November) and once after flowering (February-March) Spraying 20ppm NAA at pea size of fruits followed by 2% urea spray Hexaconazole (1 ml/l) – powdery mildew To control leaf hopper spraying of Imidacloprid (0.30ml/lit) Methyl eugenol traps – fruit fly 	Alphanso	-	IIHR	Mango special Imidacloprid Hexaconazole Fruitfly trap NAA	2 kg 1 lit 1 ltr 4 250ml	300.0 900.0 950.0 600.0 480.0	05		Yield t/ha, Per cent powdery mildew disease reduction over control, Percentage of mango hopper population reduction, B:C ratio	Scientist (Horticulture, Entomology), SS&H
									Total:	3230.0		16150.0		

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
		Black pepper	Foot rot disease	<ul style="list-style-type: none"> Removal and destruction of dead vines Improvement of drainage in ill drained gardens <i>Trichoderma viride</i> enriched neem cake application Drenching and spraying with Metalaxyl (0.125 %) 	Panniyur-1	-	UHSB	<i>Trichoderma viride</i> Neem cake Metalaxyl	6 kg 125 kg 1 kg	540.0 1400.0 1800.0	05		Percent yellowing and leaf infection, collar infection, wilted vines and yellowing (%), Yield (q/ha), B:C ratio	Team Members Involved: SS&H, Scientist (Horticulture, Entomology)
									Total:	3740.0		18700.0		
		Ginger	Rhizome rot complex, low yield	<ul style="list-style-type: none"> Rhizomes treatment with copper oxy chloride (0.3 %) and streptocycline (0.05 %) Blanket application of FYM enriched with <i>Trichoderma pseudomonas</i> and neem cake Drenching with bleaching powder (0.2%) 33% and metalaxyl Mz (0.2%) to a disease 	Himachal	-	UASD	Copper oxy chloride Streptocycline Neem cake <i>Trichoderma</i> <i>Pseudomonas</i> Bleaching powder Metalaxyl	0.5 kg 120 gm 100kg 2 kg 2 kg 0.5 kg 0.5kg	600.0 1000.0 1200.0 200 200 300.0 900.0	05		Incidence of rhizome rot (%), Yield (t/ha), B:C ratio	Team Members Involved: SS&H, Scientist (Horticulture, Entomology)

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
				affected places to prevent the further spread of disease										
									Total:	4400.0		22000.0		
6.7	Livestock													
		Dairy	Repeat breeding	Modified PG protocol	--	--	KVAFSU -Bidar	Fentas plus-3g, minfagold, pragma (PG), GnRH (Receptol)	1 1.2 kg 4ml 5ml	100.0 250.0 350.0 350.0	15		Duration of heat Conception rate Economics	Scientist Veterinary SS&H
									Total:	1050.0		15750.00		
		Dairy	Anestrus	CIDR synch	--	--	KVAFSU -Bidar	Fentas plus-3g, Minfagold, CIDR implant, Alpha two (PG), GnRH (Receptol)	1 1.2kg 1 2ml 5ml	100.0 250.0 800.0 190.0 350.0 150.0	10		Number of animals coming to heat, Conception rate, economics	Scientist Veterinary, Entomology
									Total:	1840.0		18400.0		
		Dairy	Mastitis	Tri-sodium citrate, multivitamin and mineral mix, Natural antioxidants and antibiotics, lactifense teat dip	--	--	IVRI, Izatnagar	Mastigo, Multivitamin mineral mix, Lactifense teat dip	750 g 1kg 1	700.0 250.0 800.0	20		Incidence of subclinical and clinical mastitis, mild yield, milk SNF and fat, economics	Scientist Veterinary, Agronomy
									Total	1750.0		35000.0		
		Dairy	Fodder	Guinea grass Stylosanthus	--	--	IGFRI, Dharwad	Guinea grass Stylosanthus	1.5kg 1.5kg	1000.0 750.0	10		Milk yield, body score, milk SNF and Fat, economics	Scientist Veterinary, Agronomy
									Total	1750.0		17500.0		

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
6.8	Fisheries													
6.9	Others													
	Agroforestry	Ylang-ylang (<i>Cananga odorata</i>)	Lack of knowledge w. r. t. Ylang-ylang	FLD : Popularization of -Ylang-ylang in Homegardens (Agrosilvopastoral system) of Uttara Kannada : An additional source to the farm income	-	-	KAU, Thrissur UAS, Bengaluru	Ylang-ylang (<i>Cananga odorata</i>) Seedlings	100 nos	6000.0	05		Survival percent No. of culms Flower Yield (kg/tree) Oil content (%) Economics	Sci (Horti) TO (Agfor) Sr.Sc. &H
									Total:	6000.0		30000.0		
	Home Science	Home Science	Poor nutritional status of the rural women and lack of knowledge regarding importance of nutrients	Nutritional Garden for farm families	Varieties	1. Leafy Vegetables, 2. root and tubers 3. other vegetables 4. Medicinal plants	UAS, bangalore	Fenugreek Amaranthus Spinach Shepu Coriander Roots & Tubers Carrot Other vegetables Tomato Seedlings Chilli Seedlings Brinjal Seeds French beans Okra Fruit & Medicinal Curry leaf Papaya Drumstick Neem oil Vegetable Spl	50g 50g 50g 50g 50g 20 20 100g 100g 100g 20 20 20 250ml 1 kg		10	1. Quantity of vegetables procured per week 2. change in Knowledge after intervention 3. Economics	Sci (HSc, Agr, Ani. Sci),	
									Total:	2980.0		29800.00		

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
		Home Science	Under utilized fruit, lack of awareness on value addition of kokum	Kokum Value added products	-	-	UHSB	Mini Kokum powder mill Packaging and labelling materials (Food grade polythene covers, bottles etc) Sealing machine	1	-	10	56000.00	Productivity (production per hour) 2. Economics and Feed back	Sc - H Sc Sc - Agr
									Total:	-		56000.00		
		EDP	Under utilization of Jackfruit, lack of Awareness on value addition of jackfruit	Up scaling the marketing of Jackfruit through Value Addition (papad, chips)	-	-	-	Pulp making machine Chips making machine Sealing machine Packaging and labelling materials	1 1 1	-	20 (2 members each from 10 SHG Groups)		Productivity, Economics and feed back	Sci (HSc, Agr,)
									Total:			90000.00		
		EDP	Unemployment, lack of Awareness on value addition of banana	Value Addition of Banana (Chips Sukheli)	-	-	-	Minimal processing equipments: Dryer, Graters, Utensils, Knife, Lids, strainers, Cutting board, Peeler	1 2 4 2 4 2 2 2	-	2 SHGs		production, Economics	Sci (HSc, Agr, Hrt)
									Total:			30000.00		

7. Training for farmers/ farm women during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Crop / Enterprise	Related field intervention (OFT/FLD)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
7.1	Crop production						
	Nutrient Management	Paddy	FLD	INM in Paddy	10	300	Scientist(Agronomy)
	Problematic soils and their management	Paddy and Maize	FLD	Reclamation of soil acidity and water logging	5	150	Scientist(Agronomy) & TO(Lab)
	Weed management in Maize	Maize	FLD	Integrated weed management in Maize	5	300	Scientist(Agronomy)
	Nutrient management in Maize	Maize	FLD	INM in Maize	5	150	Scientist(Agronomy) & TO(Lab)
	Integrated crop management	Ground nut	FLD	ICM in Ground nut	4	120	Scientist(Agronomy) Scientist(Plant protection) SS& H
	Integrated crop management	Black gram and Green gram	FLD	ICM in Black gram and Green gram	4	120	Scientist(Agronomy) Scientist(Plant protection) SS& H
7.2	Horticulture production	Banana	OFT	Post harvest management in banana	02	90	Scientist (Horticulture, Home science, Agronomy)
		Black pepper	OFT	ICM in black pepper	02	90	Scientist (Horticulture, Entomology), SS&H
		Arecanut	FLD	ICM in Arecanut	02	110	Scientist (Horticulture, Entomology), SS&H
		Mango	FLD	ICM in Mango	02	110	Scientist (Horticulture, Entomology), SS&H
		Ginger	FLD	ICM in Ginger	02	80	SS&H
7.3	Livestock production						
		livestock	FLD	Management of reproduction related problems	3	100	Sci.Vet, SS&H,
		livestock	FLD	Tips for control and prevention of mastitis and clean milk production	3	110	Sci.vet, Agro. Hort.
		livestock	-	Nutrition management of Dairy animals	3	105	Sci.vet,Agro. HSc
		livestock	FLD	Improved variety fodder crop cultivation practices	3	100	Sci.vet,Agro. ento
		livestock	-	Prevention and control of	4	140	Sci.Vet, SS&H

Sl.No.	Thematic area and the crop/enterprise	Crop / Enterprise	Related field intervention (OFT/FLD)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
				metabolic and infectious diseases			
		Livestock	-	New technologies in fodder preservation and dry fodder enrichment	2	70	Sci.vet,Agro. HSc
		Livestock	--	Care and management of new born calves, kids, lambs	3	100	Sci.vet,Agro. ento
		Poultry	OFT	Management of brooder and grower chicken	2	60	Sci.vet, HSc, Hort
		Poultry	OFT	Management of disease and pest menace in backyard poultry	2	60	Sci.Vet, Home Science
		poultry	--	Low cost feed formulations and feeding practices	2	60	Sci.vet, Agronomy
7.4	Home Science						
	Home Science	Nutrition garden	FLD	Importance of Nutrition garden	1	20	Scientist (HSc), Scientist (Agr), Scientist (Ani Sc)
	Mushroom Cultivation	Mushroom	-	Cultivation of mushroom	1	20	Scientist (HSc), Scientist (Agr), Scientist
	Drudgery	Bhendi plucker		Use of bhendi plucker	1	20	Scientist (HSc), Scientist (Agr), Scientist
	Dal making	Pulses		Dal making from pulses	01	20	Scientist (HSc), Scientist (Agr), Scientist
7.5	Plant protection	Bt Cotton	FLD	Role of trap crop Bhendi in management of shoot weevil	01	10	Scientist (Agril. Entomology, Agronomy)
		Bt Cotton	FLD	Management of sucking insects	01	15	Scientist (Agril. Entomology, Agronomy)
		Bt Cotton	FLD	Square and boll drop management	01	10	Scientist (Agril. Entomology, Agronomy)
		Coconut	FLD	Identification and damage symptoms of RSW and Management	02	40	Scientist (Agril. Entomology, Horticulture)
		Coconut	FLD	Role of Natural enemies in RSW management	02	40	Scientist (Agril. Entomology, Horticulture)
		Kumata onion	OFT	Cause and Management of Twisting problem	02	10	Scientist (Agril. Entomology, Horticulture)

Sl.No.	Thematic area and the crop/enterprise	Crop / Enterprise	Related field intervention (OFT/FLD)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
		Kumata onion	OFT	Role of Trichoderma in management of diseases	02	10	Scientist (Agril. Entomology, Horticulture)
		Groundnut	FLD	Identification of damage symptoms of insects and diseases of groundnut and their management	03	45	Scientist (Agril. Entomology, Agronomy)
		Pulses	FLD	Plant protection in pulses	01	25	Scientist (Agril. Entomology, Agronomy)
		Watermelon	FLD	Yield enhancement techniques in watermelon	01	10	Scientist (Agril. Entomology, Horticulture)
		Watermelon	FLD	Management of sucking insects, stem blight, downy mildew, necrosis virus in watermelon	01	12	Scientist (Agril. Entomology, Horticulture)
		Cashew	Others	Plant protection measures in cashew	01	15	Scientist (Agril. Entomology, Horticulture)
		Black pepper	OFT	Identification of damage symptoms by sucking insects and Management	01	10	Scientist (Agril. Entomology, Horticulture)
		Black pepper	OFT	Rugose spiralling whitefly - a possible threat to Black pepper	01	10	Scientist (Agril. Entomology, Horticulture)
		Paddy	FLD	Identification of damage symptoms of insects and diseases of paddy and their management	01	15	Scientist (Agril. Entomology, Agronomy)
		Paddy	FLD	Non chemical measures for the management of paddy pests	01	15	Scientist (Agril. Entomology, Agronomy)
		Paddy, groundnut, pulses	FLD	Importance of Seed treatment	03	45	Scientist (Agril. Entomology, Agronomy)
7.6	Production of inputs at site						

Sl.No.	Thematic area and the crop/enterprise	Crop / Enterprise	Related field intervention (OFT/FLD)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
7.7	Soil health and fertility						
7.8	PHT and value addition						
	PHT and value addition	Pine apple	-	Value addition to pine apple	1	15	Scientist (HSc), Scientist (Agr), Scientist (Ani Sc)
7.9	Capacity building/ group dynamics						
7.10	Farm mechanization	Arecanut	OFT	Arecanut harvesting methods	02	90	Scientist (Horticulture, Entomology), SS&H
7.11	Fisheries production technologies						
7.12	Mushroom production						
7.13	Agro forestry						
7.14	Bee keeping	Watermelon	FLD	Role of bee pollination in yield enhancement	01	15	Scientist (Agril. Entomology, Horticulture)
7.15	Sericulture						
7.16	Others, pl. specify						

8. Training for rural youth during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Crop / Enterprise	Related field intervention (EDP/Skill development etc)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
8.1	Crop production						
	Integrated farming System	IFS	EDP	Enhancement of income through IFS	2	50	Scientist (Agronomy) and all
8.2	Horticulture production	Arecanut	Skill development	Arecanut harvesting and pesticide application techniques	01	40	Scientist (Horticulture)
8.3	Livestock production	Poultry	Skill	Small scale poultry farming	1	20	Scientist Vet, HSc, Agro
8.4	Home Science						
	Home Science	Entrepreneurship development	Skill development	Income generating activities Home made products (masala powders / mixes, papads)	1	25	Sc.H.Sc, Sc. Agr. PC
8.5	Plant protection						
8.6	Production of inputs at site						
	Composting	Composting	Skill development	Different types of Composting and preparation methods	1	30	Scientist (Agronomy) Scientist (Plant protection)
8.7	Soil health and fertility						
	Soil test based fertilizer application	Soil health	Skill development	Soil test based fertilizer application to crops	1	30	Scientist(Agronomy)& TO(Lab)
8.8	PHT and value addition						
8.9	Capacity building/ group dynamics						
	Task Force	Paddy	Skill development	Paddy Task Force- a solution for Labour scarcity and timely operation	2	60	Scientist(Agronomy) an SS& H
8.10	Farm mechanization	Arecanut	Skill development	Use of machines for arecanut harvesting	01	40	Scientist (Horticulture)
8.11	Fisheries production technologies	Fisheries	Skill	Ornamental fish farming	1	20	Scientist Vet, SS&H, Ento
8.12	Mushroom production						

	Mushroom production	Entrepreneurship development	Skill development	Cultivation of mushroom	1	20	Scientist (HSc), Scientist (Agr)
8.13	Agro forestry						
8.14	Bee keeping	Bee keeping	EDP	Bee keeping- a subsidiary income for rural youths	01	15	Scientist (Agril Entomology, Agronomy, Horticulture), Sr. Sc and Head
8.15	Sericulture						
8.16	Others, pl. specify						

9. Training for extension personnel during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Training Title	No. of courses	Expected No. of participants	Names of the team members involved
9.1	Crop production				
	Integrated crop management	SSI method of Sugarcane cultivation	1	25	Scientist (Agronomy), Scientist (Plant Protection) and SS&H
9.2	Home Science				
9.3	Capacity building and group dynamics				
9.4	Horticulture	Nutrition management in Horticulture crops based on soil test results	01	40	Scientist (Horticulture) & Tech. officer (soil lab)
9.5	Livestock production and management	Principles and techniques of post mortem, sampling in disease diagnosis	1	40	Scientist Vet, SS&H, DD AH&VS
		Diagnosis and treatment of metabolic and infectious diseases	1	40	Scientist Vet, SS&H, DD AH&VS
9.6	Plant protection				
	Arecanut and Coconut	Awareness on new insect threats to plantation crops	02	35	Scientist (Agril. Entomology, Horticulture), Sr. Sc and Head
9.7	Farm mechanization				
	Farm Mechanization	Mechanized transplanting techniques in Paddy	1	30	Scientist (Agronomy), & SS&H
9.8	PHT and value addition				
9.9	Production of inputs at site				
9.10	Sericulture				
9.11	Fisheries				
9.12	Other, pl. specify				
	Soil Health	Organic farming in Paddy	1	30	Scientist (Agronomy) and all

10. Vocational trainings during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Training Title	No. of programmes	Duration (days)	Expected No. of participants	Sponsoring agency, if any	Names of the team members involved
10.1	Crop production						
10.2	Home Science	Types of Tassels (crochet, kuchu) for saree, dress and dupatta	01	3 days	20	-	Sc.H.Sc, Sc. Agr.
		Tailoring	01	5 days	15	-	Sc.H.Sc, Sc. Agr.
		Bakery product preparation	01	3days	15	-	Sc.H.Sc, Sc. Agr. Sc AS
		Value addition to kokum	01	3 days	15		Sc HSc and Sc Agr
10.3	Capacity building and group Dynamics						
10.4	Horticulture	Asexual methods of propagation in Horticulture crops	02	05	40	-	Scientist (Horticulture) & SS&H
10.5	Livestock production and management	Tips for profitable dairying	1	4	40	KMF	Scientist Vet, SS&H
		Fodder crops, technologies and preservation methods	1	4	40	KMF	Scientist Vet, SS&H
		Management and control of mastitis, nutrition deficiency diseases, clean milk production	1	4	40	KMF	Scientist Vet, SS&H
10.6	Plant protection						
10.7	Farm mechanization						
10.8	PHT and value addition	Post harvest management in ginger	01	01	40		Scientist (Horticulture) & SS&H
10.9	Production of inputs at site						
	Organic Farming	Preparation of Different organic products	1	10 days	25	NABARD Karwar	Scientist (Agronomy) Scientist (Plant protection)
10.10	Sericulture						
10.11	Fisheries						
10.12	Other, pl. specify						

11. Sponsored trainings during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Training title	No. of programme s	Duratio n (days)	Expected number of participants	Sponsoring agency	Names of the team members involved
11.1	Crop production						
	Organic Farming	Organic Paddy cultivation	5	1	150	Kadamba Organics and Marketing trust	Scientist (Agronomy)
11.2	Home Science						
11.3	Capacity building and group Dynamics						
11.4	Horticulture						
11.5	Livestock production and management						
11.6	Plant protection						
11.7	Farm mechanization						
11.8	PHT and value addition						
11.9	Production of inputs at site						
11.10	Sericulture						
11.11	Fisheries						
11.12	Others, pl. specify						
	Rain Water Harvesting	Rain Water Harvesting	6	1	200	Kadamba Organics and Marketing trust	Scientist (Agronomy)

12. Extension activities during 2019-20

Sl. No.	Extension activity	No. of activities	Targeted number of participants	Names of the team members involved
12.1	Advisory services	360	420	All staff
12.2	Diagnostic visits	225	510	All staff
12.3	Field days	9	430	All staff
12.4	Group discussions	15	240	All staff
12.5	Kisan gosthies	3	170	All staff
12.6	Film shows	7	260	All staff
12.7	Self -Help Groups (SHGs) meetings	9	160	All staff
12.8	Kisan Melas	2	2000	All staff
12.9	Exhibitions	7	150000	All staff
12.10	Scientists' visit to farmers fields	175	460	All staff
12.11	Plant/soil health/animal health camps	5	250	All staff
12.12	Farm science club meetings	0	0	All staff
12.13	Ex-trainees sammelans (Meetings)	6	130	All staff
12.14	Farmers' seminars/workshops	9	485	All staff
12.15	Method demonstrations	29	660	All staff
12.16	Celebration of important days	7	400	All staff
12.17	Special day celebrations	8	330	All staff
12.18	Exposure visits	4	110	All staff
12.19	Technology week celebration	2	500	All staff
12.20	Farmers Field School (FFS)	1	0	All staff
12.21	Farm innovators meet	0	0	All staff
12.22	Awareness programmes	7	330	All staff
12.23	Pre-kharif campaign	1	100	All staff
12.24	Pre-rabi/summer campaign	1	100	All staff
12.25	Others, pl. specify	0	0	All staff

13. Activities proposed as knowledge and resource centre during 2019-20

13.1 Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha)	Number	Names of the team members involved
13.1.1	Technology park/ crop cafeteria				
	Technology park/ crop cafeteria	Varietal/Hybrids demonstrations Mechanized transplanting techniques Organic farming	2.0	10	Scientist (Agronomy) Farm Manager SS& H
13.1.2	Demonstration units	Vermicomposting	100 m2	1	Scientist (Agronomy) Farm Manager SS& H
		Azolla	25 m2	4	Scientist (Agronomy) Farm Manager SS& H
		Fodder cafeteria, Backyard birds, Rabbit unit	-	1 each	Scientist Vet, Agro, HSc,
13.1.3	Lab analytical services				
13.1.4	Technology week				
13.1.5	Others, Pl. specify				

13.2 Technological products

Sl. No.	Category	Name of the production partner agency, if any	Name of the product	Quantity planned to be produced during 2019-20 (q)	Number planned to be produced during 2019-20	Names of the team members involved
13.2.1	Seeds					
		Farmers	PSB-68 seeds	50 q	1	Scientist (Agronomy) SS& H
		Farmers	Hemavati seeds	100 q	1	Scientist (Agronomy) SS& H
13.2.2	Planting material					

		Farm	Sugarcane Single eye bud seedlings		20000	Scientist (Agronomy) SS& H
			Black pepper rooted cuttings	-	20,000	Scientist(Horticulture)
			Cardamom seedlings	-	3000	Scientist(Horticulture)
			Venilla seedlings	-	240	Scientist(Horticulture)
			Arecanut seedlings		3400	Senior Scientist and Head
			Drum stick seedlings	-	600	Scientist(Horticulture)
13.2.3	Bio-products		IBA powder	5 kg	-	Scientist(Horticulture)
13.2.4	Livestock strains					
13.2.5	Fish fingerlings					
13.2.6	Any other, pl specify					

13.3 Technological information

Sl. No	Category	Technological capsules/lectures/number	Names of the team members involved
13.3.1	Technology backstopping to line departments		
	a. Agriculture	9	Scientist (Agronomy) Scientist(Horticulture, PP)
	b. Horticulture	05	Scientist(Horticulture, Entomolgy)
13.3.2	Literature/publication	23	Sci(HSc),Sci(Agr.) Scientist(Horticulture, Entomolgy), SS&H
13.3.3	Electronic media	01	Scientist(Horticulture), TO(Computer)
13.3.4	Kisan mobile advisory services	50	All Scientists & TO(Computers)
13.3.5	Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies).		

14. Additional activities planned during 2019-20

Sl. No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1.	Karnataka Forest Department funded research project on "Studies on wilting of Mangrove Plantation of Honnavar Forest Division"	Research	Identification of species involved in wilting of mangroves, Survey for wood borers in Honnavar forest division, extent of damage and management strategies (2 years)	250000.00 (2018-20)	Dr. Roopa S. Patil
2.	KVK Sirsi as Voluntary /cooperating center for ICAR funded Network project on Conservation of Lac genetic resources with IINRG Ranchi as Lead Center	Research	Survey for identification of local lac insect genetic resources in North Karnataka Area, Maintenance of genetic resources, developing suitable lac culture technologies	350000.00 (2018-19) 2019-20 budget not yet finalised	Dr. Roopa S. Patil
3.	Testing Chemical Project related to Paddy	Research	Evaluation of New molecules against target insect in paddy ecosystem	-	Dr. Roopa S. Patil
4.	Diploma course : Krishi Keeta Shastra Parichaya (1+1)	Teaching	Teaching to diploma Agri students on Introduction to Entomology	-	Dr. Roopa S. Patil
5.	Diploma Course : Apiculture	Teaching	Teaching to diploma forestry students on Apiculture	-	Dr. Roopa S. Patil
6	ATMA	Short term research	AGRONOMIC INVESTIGATIONS FOR PRODUCTION OF TEFF (<i>Eragrostis tef</i>)- A SUPER FOOD CROP"	3.0 Lakh	Scientist (Agronomy, Agr.Ent.) Senior scientist and head Scientist (Home science, Veterinary science, Technical Officer (Lab)
7	UAS SRP	Staff research Project	AGRONOMIC INVESTIGATIONS FOR ORGANIC PRODUCTION OF JONI BELLA	5.0 Lakh	Scientist (Agronomy)
8	UAS SRP	Staff research project	Assessment of Different Napier grass under high rain situation	1.0 Lakh	Scientist (Agronomy) Scientist (Home science)
9	UAS Dharwad	Analysis of major mastitis associated bacterial pathogens in dairy animals	CMT Screening for subclinical mastitis, isolation and identification of pathogens	3.0 lakh	Scientist Veterinary
10	UAS, Dharwad	Spot diagnostics for blood protozoan diseases in dairy animals	Screening for blood protozoa by lateral flow assay and ELISA methods	3.0 lakh	Scientist Veterinary
11	ICAR	ARYA	Youth empowerment through value addition in jackfruit and cocoa, nursery in plantation crops, goatery	24.95 lakhs	Scientist(Home Science) Scientist(Horticulture) Scientist (Animal Science)

15. Revolving fund**15.1 Financial status of revolving fund**

Opening balance as on 01.04.2018 (Rs.in Lakh)	Expenditure incurred during 2018- 19 (Rs.in Lakh)	Receipts during 2018-19 (Rs. in Lakh)	Closing balance as on 31.03.2019 (Rs. in Lakh)	Expected closing balance by 31.03.2019 (Including value of material in stock/ likely to be produced)
1031107.02	799870.05	1561052.05	1792305.02	1792305.02

15.2 Plan of activities under revolving fund

Sl. No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
1	Seed production under farmers participatory approach	150 q	4,50,000.00	Scientist (Agronomy) Senior scientist and head
2	Sugarcane single eye bud seedlings	20,000	40,000.00	Scientist (Agronomy) Senior scientist and head
3	Cardamom seedlings	3,000	45,000.00	Scientist(Horticulture)
4	Black pepper rooted cuttings	20000	3,00,000.00	
5	Arecanut seedlings	3400	51,000.00	Senior Scientist and Head
6	Vanilla seedlings	240	14,400.00	Scientist(Horticulture)
7	Drum stick seedlings	600	9,000.00	Scientist(Horticulture)
8	IBA powder	5 kg	5000.00	Scientist(Horticulture)
9	Seed production in Instructional farm	260.0q	550000.0	Farm Manager, Sr.S&H, Sci(Agronomy, Plant Protection)
10	Arecanut Garden	32.0q	130000.0	Sci(Hort), Sr.S&H, , Farm Manager
11	Coconut+Sapoto+Mango+Cashew	32.0q	130000.0	Sci(Hort), Sr.S&H, Farm Manager
12	Milk	-	40000.0	

16. Activities of soil, water and plant testing laboratory during 2019-20

Sl.No.	Type of samples	No. of samples to be analyzed	Names of the team members involved
16.1	Soil test using analytical lab	1200	TO(Agroforestry) and All Scientists
16.2	Soil test using mobile analysis kit	0	TO(Agroforestry) and All Scientists
16.3	Water	500	TO(Agroforestry) and All Scientists
16.4	Plant	-	-
16.5	Others, pl. specify	-	-

17. E-linkage during 2019-20

Sl. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
17.1	Title of the technology module to be prepared	Mobile app on Black pepper production technologies	Need for Training on Mobile app development
17.2	Creation and maintenance of relevant database system for KVK	KVK Activity database	Excel formats
17.3	Any other (Please specify)		

18. Activities planned under rainwater harvesting scheme (only to those KVKs which are already having scheme under rain water harvesting)

Sl. No	Activities planned	Remarks if any
1	Training cum awareness program to Farm women and Extension personnel on Rain Water Harvesting	Sponsoring by Kadamba Organic Marketing trust

19. Farmers Field School (FFS) planned

Thematic area	Title of the FFS	Budget proposed in Rs.
Nutrition in Livestock	Demonstration on low cost Total Mix Ration (TMR) as complete balanced food for cows	30000.00

20. Integrated Farming System (IFS) planned

Description of model(s)	No. of models/units	Budget proposed in Rs.
IFS Components to be addressed Agriculture- Paddy, Maize, Black gram and green gram Horticulture- Black pepper, Ginger Turmeric Animal Component- Fodder Crops Azolla Value addition to Pulses	10	1,00,000.00

21. Details of budget utilization (2018-19) upto 31 March 2019

Sl.No.	Particulars	Sanctioned	Released	Expenditure
21.1	(A). REVENUE (Recurring Contingencies)			
21.1.1	Pay & Allowances	10812000	10812000	8308602
21.1.2	Traveling allowances	275000	275000	250546
21.1.3	Contingencies			
21.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	235000	235000	223559
21.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	230000	230000	230000
21.1.3.c	<i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i>	100000	100000	96445
21.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	50000	50000	49394
21.1.3.e	<i>Frontline demonstrations</i>	303000	303000	290495
21.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	58000	58000	29970
21.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	--	--	--
21.1.3.h	<i>Training of extension functionaries</i>	10000	10000	9546
21.1.3.i	<i>Extension activities/services</i>	40000	40000	39004
21.1.3.j	<i>Farmers' Field School</i>	--	--	--
21.1.3.k	<i>EDP (2 Nos.) / Innovative activities</i>	60000	60000	15010
21.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	10000	10000	9892
21.1.3.m	<i>Maintenance of building</i>	--	--	--
21.1.3.n	<i>Farmers Conclave, KVK Conference</i>	--	--	--
21.1.3.o	<i>Video production</i>	--	--	--
21.1.3.p	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>	--	--	--
	Total Recurring	12183000	12183000	9552463
21.2	(B). CAPITAL (Non-Recurring Contingencies)			
21.2.1	Equipments & Furniture	--	--	--
21.2.2	Works	4700000	4700000	1600187
	Transfer for Refund Amount	2495333	2495333	
21.2.3	Vehicle	--	---	--
21.2.3 a	Four wheeler (replacement)	--	---	-----
21.2.4	Library	4000	4000	3005
	Total Non Recurring	7199333	7199333	1603192
21.3	(C). REVOLVING FUND			
	GRAND TOTAL (A+B+C)	19382333	19382333	11155655

22. Details of Budget Estimate based on proposed action plan(2019-20)

Sl.No.	Particulars	BE 2019-20 proposed (Rs.)
22.1	(A). REVENUE (Recurring Contingencies)	
21.1.1	Pay & Allowances	13627481
22.1.2	Traveling allowances	300000
22.1.3	Contingencies	
22.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	300000
22.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	350000
22.1.3.c	<i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i>	150000
22.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	75000
22.1.3.e	<i>Frontline demonstrations</i>	475400
22.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	104900
22.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	100000
22.1.3.h	<i>Training of extension functionaries</i>	25000
22.1.3.i	<i>Extension activities/services</i>	60000
22.1.3.j	<i>Farmers' Field School</i>	25000
22.1.3.k	<i>EDP (2 Nos.) / innovative activities</i>	120000
22.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	25000
22.1.3.m	<i>Maintenance of building</i>	25000
22.1.3.n	<i>Library (Purchase of Journals, Periodicals, News Papers& Magazines)</i>	10000
22.1.3.o	<i>Others, pl. specify(Video Production)</i>	25000
	Total Recurring (A)	15797781
22.2	(B). CAPITAL (Non-Recurring Contingencies)	
22.2.1	Equipments& Furniture	100000
22.2.2	Works	10000000
22.2.3	Vehicle	
22.2.3.a	Four wheeler (replacement)	
22.2.4	Library	6000
	Total Non Recurring (B)	10106000
	Grand Total (A + B)	25903781