



**UNIVERSITY OF HORTICULTURAL SCIENCES
BAGALKOT**



ACTION PLAN
(APRIL 2019 TO MARCH 2020)

Submitted to:
ICAR-Agricultural Technology Application Research Institute,
Bengaluru

ICAR-KRISHI VIGYAN KENDRA
KOLAR (KARNATAKA)

ICAR-ATARI, ZONE –XI, HEBBAL, BENGALURU

PROFORMA FOR ACTION PLAN OF KVKs IN ZONE XI FOR 2019-20

1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with phone, fax and e-mail ID	:	Krishi Vigyan Kendra, N.H-75, Tamaka, kolar-563103 Phone 08152-243099, 9480696395, Fax: 08152-243208, e-mail : kvk.kolar@icar.gov.in , Web site: www.kvkkolar.in
1.2	Name and address of host organization	:	University of Horticultural sciences, Udyanagiri, Bagalkot-587104
1.3	Year of sanction	:	2012
1.4	Website address of KVK and date of last update	:	www.kvkkolar.in & 25 March 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	Mr. K.Thulasi Ram	Entomology	37400-67000	9000	18.12.2012	Permanent
2.2	Subject Matter Specialist	Dr. Raghunathareddy R.L	Soil Science	15600-39100	6000	31.08.2015	Permanent
2.3	Subject Matter Specialist	Dr. Shashidhar K.R.	Sericulture	15600-39100	6000	17.01.2014	Permanent
2.4	Subject Matter Specialist	Dr. Noorulla Haveri	Plant Pathology	15600-39100	6000	27.01.2014	Permanent
2.5	Subject Matter Specialist	Dr. Nagaraja K.S.	Horticulture	15600-39100	6000	05.11.2015	Permanent
2.6	Subject Matter Specialist	Dr. Chikkanna,G,S	Home Science	15600-39100	6000	22.06.2016	Permanent
2.7	Subject Matter Specialist	Vacant	-	-	-	-	-
2.8	Programme Assistant (Lab Assistant)	Vacant	-	-	-	-	-
2.9	Programme Assistant (Computer Programmer)	Mrs. C.S. Gnana Sudha	-	9300-34800	4200	27.01.2014	Permanent
2.10	Programme Assistant (Farm Manager)	Mr. Umesha Naik	-	9300-34800	4200	01.03.2014	Permanent
2.11	Accountant/Superintendent	Mr. Ravi Shankar	-	16000-29600	4200	22.03.2013	Permanent
2.12	Stenographer	Mrs. Savitri Rudrapur	-	20000-36300	-	12.03.2014	Permanent
2.13	Driver 1	Mr. Pradeep	-	14,000	-	01.08.2014	14,000
2.14	Driver 2	Vacant	-	-	-	-	-
2.15	Supporting staff 1	Mr. Srinivas D. Gasti	-	9600-14450	-	03.02.2014	Permanent
2.16	Supporting staff 2	Mr. Srinath	-	11,000	-	11.02.2016	11,000

3. Details of SAC meeting conducted during 2018-19 : Not conducted during 2018-19

Date	Major recommendations	Status of action taken in brief	Reasons for no actions, if any
	-	-	-

4. Details of operational areas proposed during 2019-20

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				
Yadahalli, Kolar Tq	Ragi	Early or mid season drought, erratic rainfall , blast and lack of awareness on use of micronutrients/biofertilizers	50 ha	FLD & Training
	Potato	Excess haulm development at the cost of tuber, late blight, mite, tuber moth and defoliator problem	20 ha	FLD & Training
	Mulberry	Severe incidence of thrips and leaf roller during summer & winter seasons	20 ha	FLD & Training
	Tomato	Severity of American pin worm, Thrips, Red mites, Fruit borer, Early and Late blight, indiscriminate use of PP chemicals	15 ha	FLD & Training
	Marigold	Severity of SLM, Thrips, Red mites and Bud worm	25 ha	FLD & Training
	Nutritional Security	Less intake of fresh vegetables in daily diet	60 No	FLD & Training
Cluster B				
Thimmasandra, Bangarpet Tq	Tomato	Injudicious use of fertilizers, Uneven sized fruits, Discolored fruits, Blossom End Rot, Poor quality of fruits affecting marketability	20 ha	FLD & Training
	Cauliflower	Diamond back moth and aphids severity	20 ha	FLD & Training
	Mulberry	Lack of information on better utilization of sericulture farm residue	10 No	OFT & Training
	Silkworm rearing	Reduced good cocoon yield due to increase in disease incidence	20 No	FLD & Training
	Milk production	Lack of awareness and knowledge on preparing value added products, labeling, branding and marketing of the product	25 No	EDP & Trainings
	Nutritional Security	Less intake of fresh vegetables in daily diet	60 No	FLD & Training
Cluster C				
Kadudevandahalli , Srinivasapura Tq	Horse gram	Traditional varieties, Low yield and yellow mosaic menace	20 ha	FLD & Training
	Mango	Inadequate water conservation measures, no micro nutrient management, poor canopy management, Improper management of pest and diseases, fruit drop, low yield and quality of fruits	20 ha	FLD & Training
	Mango	More number of Damaged fruits Without harvester through conventional method of harvesting, Lack of Knowledge on Scientific ripening and	30 ha	FLD & Training

		packing, spongy tissues in alphanso		
	Mango	Non-utilization of inter space in mango orchards	30 ha	OFT & Training
	Tomato	Severe incidence of South American pin worm, Thrips, SLM, White fly and Red mites	20 ha	FLD & Training
	Mulberry	Improper application of chemical fertilizers, non utilization of biofertilizers, green manures and micronutrients	20 ha	FLD & Training
	Silkworm rearing	Severe infestation of uzi fly during rainy and winter seasons, more defective cocoon leads to low cocoon price	40 No	OFT & Training
	Silkworm rearing	Reduced good cocoon yield due to increase in disease incidence	40 No	FLD & Training
	Tamarind	Lack of awareness and knowledge on preparing value added products, labeling, branding and marketing of the product	20 No	EDP & Training
	Nutritional Security	Less intake of fresh vegetables in daily diet	60 No	FLD & Training
Cluster D				
B Gadduru, Mulabagilu Tq	Mulberry	Severe incidence of thrips and leaf roller during summer & winter seasons	10 ha	FLD & Training
	Groundnut	Old varieties and non use of micronutrients and low yields	30 ha	FLD & Training
	Groundnut	Severe Stem rot incidence in groundnut	20 ha	FLD & Training
	Groundnut	Lack of awareness and knowledge on preparing value added products, labeling, branding and marketing of the product	40 No	EDP & Training
	Nutritional Security	Less intake of fresh vegetables in daily diet	60 No	FLD & Training
	Prevalance of anemia	In Kolar district >50.3 % of adolescent girls in rural area are suffering with anemia leading to reduced performance in physical and mental status and work efficiency	120 No.	OFT & Trainings
Cluster E				
Thippasandra, Malur Tq	Chilli	Poor nutrient management, Flower drop, Murda complex, Leaf spot, Powdery mildew and Anthracnose incidence	10 ha	FLD & Training
	Pole beans	Severe incidence of Yellow Mosaic Virus and Low yield	50 ha	OFT & Training
	Cauliflower	Whiptail, Brown rot, DBM incidence and Low yield with poor quality curd	10 ha	FLD & Training
	Ridge gourd	Heavy incidence of yellow vein mosaic disease resulting in yield losses	10 ha	OFT & Trainings
	Nutritional Security	Less intake of fresh vegetables in daily diet	60 No	FLD & Training

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	Pole beans	Severe incidence of Yellow Mosaic Virus and Low yield	Assessment on Management of Yellow Mosaic Virus in Pole bean through Integrated Approach	Farmers practice	-	-	-	-	03 (0.6 ha)	30645	Soil fertility status Plant height (cm), No. of pods/plant, pod length (cm) Disease incidence (%) Pod Yield B:C ratio	Scientist-Hort, PP, SS&H
				Recommended practice	UAS (B)	Thiomethaxam @ 0.2 g/l	100 gm	800				
				Alternate practice 1	IIHR, Bengaluru	<i>Trichoderma harzianum</i>	1 kg	300				
						PSB Acephate metasystox	1 kg 500 g 150 ml	300 1300 150				
				Alternate practice 2	IIVR, Varanasi	<i>Pseudomonas fluorescens</i>	3 l	2,085				
Yellow Sticky Traps <i>Beauveria bassiana</i> Salicylic Acid Neem soap Seaweed extract	10 1 l 250 ml 2 kg 500 ml	600 1,250 500 530 2200										
Total								10215				
5.2	Ridge gourd	Yellow mosaic menace	Assessment on management of yellow mosaic in Ridge gourd	Farmers practice	-	-	-	-	03 (0.6 ha)	21300	Golden yellow mosaic incidence Yield & BCR	Scientist-PP, SS&H, Hort.
				Recommended Practice	IIHR, Bengaluru	Neem soap	2 kg	500				
						Azadirachtin	500 ml	650				
						Yellow sticky trap	10 no.	500				
						Azadirachtin	500 ml	650				
						Sea weed ext	500 ml	650				
						Salicylic acid	50 g	650				
						Phorate	5 kg	750				
						Neem cake	100 kg	2500				
						Acephate	250 g	650 (FC)				
Thiametoxam	30 g	600 (FC)										
Total								7100				

5.3	Mango	Non-utilization of inter space in mango orchards	Assessment of suitable intercrops for Mango orchards	Farmer practice	-	Mango sole crop	-	-	3 (2.4 ha)	8400	Soil nutrient status, Germination and growth parameters, Yield of main and intercrop, % yield increase, Increase in income due to the intercrop	SS&AC, Horti and SS&H
				Recommended practice	IHR, Hesaraghatta	Mango + Pigeon pea	5 kg	500				
				Alternate practice	TNAU, Coimbatuur	Mango + Field bean	5 kg	500				
				Alternate practice	UAS, Bangalore	Mango + Horse gram	5 kg	500				
						Bio fertilizers	200 g	100				
Pulse magic	2 kg	1000										
Soil analysis	1 No.	200										
				Total	2800							
5.4	Mulberry	Lack of information on better utilization of silkworm bed waste, non availability of proper technology	Assessment of different compost culture in composting of Seri farm residue	Farmers practice	-	-	-	-	03	26160	Maturity indices (No. of days taken), Nutrient contents in raw materials and the compost, % recovery in weight basis & BCR	Scientist-Seri, SS&H, PP
				Recommended practice	UAS, Bangalore	Seri farm residue + cow dung slurry + microbial culture	2.5 kg	250				
				Alternate practice	CSRTI Mysore	Seri farm residue + Rock phosphate + microbial culture	20 kg 2.5 kg	100 250				
				Alternate practice	NCOF, Ghaziabad	Seri farm residue + Waste decomposer (2kg Jaggery in 200 L water + waste decomposer)	2kg	100				
						Compost bag	20	20				
Compost analysis	3 No.	6000										
	8 No.	2000										
				Total	8720							

5.5	Sericul.	Severe infestation of uzifly during rainy and winter, more defective cocoon leads to low cocoon price	Assessment of management of uzifly in silkworm rearing	Farmers practice	-	-	-	-	03	4140	No of uzifly trapped, No. of worms infested No. of uzi pierced cocoon Defective cocoon % Cocoon yield (Kg/100 dfls) BCR	Scientist- Seri, SS&H
				Recommended practice	CSRTI, Mysore	Uzi trap	1 Sheet	100				
				Alternate practice	KSSRDI, Bangalore	Yellow sticky trap	8 No	480				
				Alternate practice	CSRTI Mysore	Sex Pheromone trap	8 No	800				
					Total		1380					
5.6	Home Sci.	Iron Deficiency	Assessment of anemia among adolescent Girls	TO1 : Normal diet	Farmers Practice	--	--	--	6	8600	1.Body weight, BMI 2. Measure Hb level before practices & after three months practices 3.Occurrence of disease if any	Scientist (H.S) SS&H, Asst professor (Agri Extn)
				TO2 : Normal Diet + Iron and Folic acid Tablets	Dept of Health, GOK	--	--	--				
				TO3 : Normal Diet + Vitamin C and Iron rich Nutri cereal health drink Malt	ICAR-KVK, Kolar	Iron and Vitamin-C enriched nutri cereal health Malt	100 g/trial	5000				
						Hemoglobin estimation	6X50X6	1800				
Rats		6X300	1800									
					Total		8600					
Grand Total										99,245		

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	Ragi	Early or mid season drought, erratic rainfall, blast and lack of awareness on use of micronutrients /biofertilizers	Introduction of Ragi variety, GPU-66 /KMR-204 for drought mitigation and delayed sowings	GPU-66/KMR-204		UAS, Bengaluru	Seeds <i>Azospirillum</i> Carbendazim Soil Analysis	10 kg 200g 250g 1 No.	600 50 250 200	10 (4ha)	11000	No. of tillers, Plant height, No. of ear heads, %PDI Defoliators/pl, Yield, soil analysis BC Ratio	SS&AC, PP, SS&H	
									Total		1100				
6.2	Millets														
6.3	Oilseeds	Groundnut	Local varieties, lack of awareness on bio fertilizers and micronutrients application	Introduction of new variety KCG-6/ICGV-91114 in groundnut for varietal replacement	KCG-6/ICGV-91114		UAS, Bengaluru	Seed <i>Rhizobium</i> PSB ZnSO ₄ & Boron Soil Analysis	35 kg 75 g 200 g 2 kg each 1 No.	4835 50 50 500 200	10 (2ha)	56350	Plant height, No. of pods/pl, %PDI, Haulm yield and pod yield & Soil analysis	SS&AC, PP, SS&H	
									Total		5635				
6.4		Groundnut	Severe incidence of stem rot and reduced yields	Management of Stem rot in groundnut	K-6		UAS, Bengaluru	Trichoderma Neem Cake	3 kg 200 kg	600 4760	(2 ha)	26800	% PDI, No. pods/plant, yield	Sci.PP, SS&H & SS&AC	
									Total		5360				
6.5	Pulses	Horse gram	Traditional varieties, Low yield and yellow mosaic menace	Introduction of CRIDA-18 Horse gram for yield enhancement	CRIDA-18		CRIDA, Hyderabad	Seeds Pulse magic Rhizobium PSB Soil Analysis	10 Kg 2 kg 500g 500 g 1 No.	1000 1000 50 50 200	5 (2 ha)	11500	Plant height, No. of branches/plant, No. of seeds/pod, % PDI, Pods/plant, Yield & BC ratio	SS&AC, Seric & PP	
									Total		2300				

6.4 a		Redgram	Phytophthora wilt, sterility mosaic <i>Fusarium</i> wilt and insect pest incidence	Integrated crop management in Red gram (NFSM)	BRG-3		UAS,B	Seeds	5 kg	750	25 (10 ha)	71750	% PDI, % wilt incidence ,leaf webber incidence, Pods/plant & yield	Scientist - SS&H, PP, SS&AC .
							<i>Rhizobium</i>	200 g	50					
							PSB	200 g	50					
							<i>Trichoderma</i>	50 g	20					
							Neemazal	400 ml	500 (FC)					
							Pulse magic	4 kg	1000					
							Dicofol	500 ml	250					
							Profenophos	1000 ml	550					
							DDVP	250 ml	200					
							Indoxacarb	200 ml	900 (FC)					
							Total		2870					
6.5	Commercial crops													
6.6	Horticultural crops	Cauliflower	Diamond back moth severity	Integrated pest management in Cauliflower	-	Suhasin	UHS Bagalkot & IIHR Bengaluru	Mustard seeds	2 kg	200	05 (1 ha)	25250	Plant height/ Curd weight DBM incidence (no./plant) Aphids/Leaf Yield & B:C ratio	Scientist - PP, SS&H, SS&AC
							Light traps	2 no.	1500					
							Yellow sticky traps	10 no.	500					
							Azadirachtin	500ml	650					
							Spinosad	75 ml	1550					
							Ema. benzoate	100 g	650					
							Flubendiamide	50 ml	1300 (FC)					
							Cyantraniliprole	100 ml	980 (FC)					
							Total		5050					

6.6a		Tomato	American pin worm, Thrips, Red mites, Fruit borer, Early and Late blight menace, indiscriminate use of PP chemicals	Integrated insect pest and disease management in Tomato	-	Sah o/10 30	IIHR Bengaluru	AMC Vegetable special Pheromone traps Y/B sticky traps Neem/Pongamia soap Mancozeb Thiamethoxam Fenamidone-mancozeb Flubendiamide Fostyl Al	2 L 3 kg 10 no. 20 no. 4 kg 2.0 kg 30 g 0.6 kg 30 ml 1.0 kg	600 500 1000 1000 1000 500 600 1800 (FC) 1300 (FC) 1350 (FC)	05 (1 ha)	26000	Plant height, Pest incidence Disease incidence Yield BCR	Scientist - PP, SS&H, Seri
								Total	5200					
6.6 b		Marigold	Thrips, Red mites and Bud worm menace	Integrated pest management in Marigold	-	Ben z tall	IIHR, Bengaluru and UHS, Bagalkot	Neem cake Blue sticky traps Neem/Pongamia soap Azadirachtin Thiamethoxam Spinosad Propergite	50 10 no. 4 kg 500ml 30 g 75 ml 500 ml	1250 1000 1000 650 600 1550 (FC) 750 (FC)	05 (1 ha)	22500	Thrips/ mites incidence (no./leaf) Bud borer incidence (no./plant), Yield and BCR	Scientist - PP, SS&H, Hort.
								Total	4500					
6.6 c		Tomato	Injudicious use of fertilizers, Uneven sized fruits, Discolored fruits, Blossom End Rot, Poor quality of fruits affecting marketability	Integrated Nutrient Management in Tomato	-	Abh inav a	IIHR, Bengaluru	<i>Trichoderma</i> spp. <i>Pseudomonas</i> spp. AMC Potassium nitrate (13:0:45) Veg. Special	1 kg 1 kg 5 kg 65.25 kg 5 kg	300 300 400 8500 (50% FC) 1000	5 (1ha)	31250	Soil fertility status (pre & post), Plant height, No. of branches/plant, No. of fruits/plant, Average fruit weight(g), TSS, Firmness of the fruit, Keeping quality, Yield (t/ha) & B:C ratio.	Scientist - Hort, PP & SS&H
								Total	6250					

6.6 d		Chilli	Poor nutrient management, Flower drop, Murda complex, Leaf spot, Powdery mildew and Anthracnose incidence	Integrated Crop Management in Chilli	-	Vais hna vi (My cho)	IIHR & UHS (B)	<i>Trichoderma</i> spp. <i>Pseudomonas</i> spp. AMC Planofix Veg. Special Fipronil Dicofol Carbendazim Mancozeb	1 kg 1 kg 1 lit 100 ml 8 kg 250 ml 500 ml 0.5 kg 0.5 kg	300 300 273 125 1200 250 300 350 400	5 (1ha)	17490	Plant height, No. of branches/plant, No. of fruits/plant, Average fruit weight(g), Yield (q/ha) & B:C ratio.	Scientist - Hort, SS&H & Seri
								Total	3498					
6.6 e		Potato	Excess haulm development at the cost of tuber, late blight, mite, tuber moth and defoliator problem	Integrated Crop Management in Potato	Kufri Jyothi	-	UHS, Bagalkot	<i>Trichoderma</i> spp. <i>Pseudomonas</i> spp. Mepiquat chloride Difenconazole Mancozeb Metalaxyl + mancozeb Fenomidon+Mancozeb Cymoxanil+Mancozeb Dicofol Phosalone	1 kg 1 kg 500 ml 250 ml 1.5 kg 400 g 600 g 400 g 500 ml 400 ml	300 300 500 900 1200 830(FC) 1800(FC) 500 300 400	5 (1ha)	22000	Fresh and dry weight of plants, no. of tubers / plant, % PDI, mites/leaf and yield	Scientist - Hort, SS& AC & Seri
								Total	4400					
6.6 f		Cauliflower	Whiptail , Brown rot, DBM incidence and Low yield with poor quality curd	Integrated Crop Management in Cauliflower	Suvasini plus/Daval	-	IIHR, Bengaluru	AMC Mustard seeds Boric acid Ammonium molybdate Neem Soap DBM traps DBM lures Ema.benzoate	2 litres 2 kg 2kg 200g 4 kg 4 No. 16 No. 100 g	560 200 500 400 300 360 320 900 (FC)	5 (1 ha)	13200	Per cent brown rot , whip tail & DBM incidence and marketable Yield and B:C ratio	Scientist (Hort), PP & SS&AC
								Total	2640					

6.6 g		Mango	Inadequate water conservation measures, no micro nutrient management, poor canopy management, Improper management of pest and diseases, fruit drop, low yield and quality of fruits	Integrated Crop Management in Mango	Alphonso/Totapuri	-	UHS (B) & IIHR, Bengaluru	NAA Mukuna/Sunhemp Fruitfly traps & Lures Mango Special Pruning secateurs Imida Wettable sulphur Lambda cyalthothrin	100 ml 10 kg 4 No.+ 3 lures 6 kg 1 No. 120 ml 1000 g 200 ml	200 2000 900 900 400 540(FC) 200(FC) 180(FC)	5 (2 ha)	22000	Yield (t/ha), TSS (OB), B:C ratio, Hopper incidence, % PDI, and fruit fly catches	Scientist - Hort, SS&H & PP
									Total	4400				
6.6 h		Mango	Lack of post harvest management	Good Horticulture practices in post harvest Handling of Mango	Alphonso		IIHR	Arka Mango wash Mango harvester Ethylene gas packaging material CAN @ 5g/l	5 l 1 No. 3 can 100 box 1250 ml	1750 850 1050 1500 (FC) 550	1	4200	Colour, TSS, Sensory analysis, B:C ratio	Scientist (H.S) SS&H, Scientist (horti)
									Total	4200				
6.i	Livestock	Fodder crops	Uninterrupted supply of green fodder for milch animals	Demonstration of high yielding multicut Sorghum variety	CoFS-31		TNAU	Seeds	1 kg	400	50 (10 ha)	20000	Fodder yield, BC ratio	Scientist – SS&H, and PP.
6.8	Fisheries													
6.9	Others													
6.9 a	Sericulture	Mulberry	Improper application of chemical fertilizers, non utilization of biofertilizers & green manures	Integrated nutrient management in mulberry for higher productivity	-	V-1	CSRTI Mysore	Sunhemp seed AMC Poshan NPK & FYM	8 kg 3 ltrs 1 ltrs -	640 900 300 5000 (FC)	10 (4ha)	18400	Soil test (Pre & Post) No of braches/plant No of leaves /plant Leaf Yield (kg/plant) Leaf yield (kg/ha) Cocoon yield (kg/100 dfls) B:C ratio	Scientist - Seri, SS&H, SS&AC
									Total	1840				

6.9 b	Sericulture		Reduced good cocoon yield due to increase in disease incidence	Effective disinfection of silkworm rearing houses to reduce defective cocoons	-	FC2 XF C1	CSRTI Myosre	Seriswach	100 gm	150	15	16650	Disease incidence (%) Defective cocoon (%) Cocoon yield (kg/100dfls) B:C ratio	Scientist - Seri, SS&H, FM
								Sanitech super	2.5 ltr	400				
								Asthra	100 gm	200				
								Ankush Vijetha	6 kg	360				
								Total		1110				
6.9 c	Home Science	Fruits and Vegetables	Nutritional security	Demonstration of nutrition Garden for nutritional security to farm families			UHS,Bagalkot	Seed Kit	200 pockets	100	200	20000	Yield and adequacy of Vegetables, Nutrition knowledge Anthropometric measures	Scientist (H.S) SS&H,Scientist (Horti)
								Total		100				
6.9 d	Home Science	Milk Production (EDP)	Lack of awareness and knowledge on preparing value added products, labeling, branding and marketing of the product	Enhancing Farmers income through value addition of Milk (Khoa preparation)	-	-	NDRI, Karnal	Khoa machine	10 l	80000	1	--	Sensory analysis Cost economics	Scientist (H.S) SS&H,Scientist (Seri)
6.9 e	Home Science	Groundnut (EDP)	Lack of awareness and knowledge on preparing value added products, labeling, branding and marketing of the product	Economic Security thorough Labeling and branding of value added groundnut	-	-	CFTRI, Mysore	Groundnut value addition equipment	10 kg	-	1	-	Colour, TSS, Sensory analysis Cost economics	Scientist (H.S) SS&H,Scientist (Seri)
Grand Total												436340		
												-71750		
												364590		

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	Tomato	FLD	Enhancement of Yield and Quality of Tomato through Fertigation and Micronutrient application	02	50	Scientist- Hort., SS&H,
		Chilli	FLD	Integrated Crop Management in Chilli	02	50	Scientist-Hort., SS&H, Seri
		Potato	FLD	Improved production technology and management of imp. Diseases and pests in Potato	02	50	Scientist-Hort., SS&H, PP
		Cauliflower	FLD	Micronutrient management in cauliflower	02	50	Scientist-Hort., SS&H, SS&AC
		Mango	FLD	Integrated crop management in Mango	02	80	Scientist-Hort., SS&H, PP
7.3	Livestock production						
7.4	Home Science	Fruits and vegetables	FLD	Processing, preservation and marketing of fruits and vegetables	05	125	Scientist-HS, SS&H, Hort.
		Minor Millets	Other	Value addition and marketing techniques in minor millets	02	50	Scientist-HS, SS&H, Hort.
		Fruits and veg	FLD	Importance of Nutritional Garden in alleviation of anemia and malnutrition	05	125	Scientist-HS, SS&H, Hort.
7.5	Plant protection	Tomato	FLD	Integrated pest and disease management in and Tomato	02	50	Scientist-PP, SS&H, Hort.
		Pole beans	OFT	Integrated management of yellow mosaic virus in pole beans	02	80	Scientist-Hort., SS&H, PP
		Ridge gourd	OFT	Integrated pest and disease management in Ridge gourd	01	25	Scientist-PP, SS&H, Hort.
		Cauliflower	FLD	Integrated management of DBM in Cauliflower	01	25	Scientist-PP, SS&H, Hort.
		Groundnut	OFT	Integrated pest and disease management in Groundnut	01	25	Scientist-PP, SS&H, SS&AC
		Tomato	FLD	Integrated management of South American pin worm in Tomato	01	25	Scientist-PP, SS&H, Hort.
		Mango	Other	Integrated pest and disease management in Mango	02	50	Scientist-PP, SS&H, Hort.
		Potato	Other	Need based application of pesticides for mangt. of insect pests and diseases in potato	02	50	Scientist-PP, SS&H, Hort.
		Redgram	Other	Emerging pests and diseases of Redgram and their management	02	50	Scientist-PP, SS&H, SS&AC
Ragi	Other	Importance of seed treatment in management blast disease in Ragi	02	50	Scientist-PP, SS&H, SS&AC		
7.6	Production of inputs at site						

7.7	Soil health and fertility	Mango	OFT	Improved cultivation practices in Mango and pulses	1	10	SS&AC, Horti and & SS&H
		Ragi	FLD	Improved cultivation practices in Ragi and other minor millets	1	15	SS&AC, PP, SS& H
		Ground nut	FLD	Improved cultivation practices in groundnut	1	15	SS&AC, PP, SS&H
		Horsegram	FLD	Improved cultivation practices in horsegram	1	10	SS&AC, Seric & PP
		Soil fertility	Others	Importance of Organic matter, Soil health and soil testing	1	30	SS&AC, PP, Seri
		Vermicomposting	Others	Vermicomposting and utilization of agricultural wastes for compost preparation	1	25	SS&AC, PP, seri
		Water conservation	Others	Soil and water conservation and judicious use of irrigation water for higher yields	1	30	SS&AC, SS&H, Horti
7.8	PHT and value addition	Mango	OFT/FLD	Post harvest technology of mango	02	50	Scientist-HS, SS&H, Hort. PP
		Fruits and Vegetables	FLD	Preparation of vitamin-C rich recipes	02	60	Scientist-HS, SS&H, Hort.
		Tamarind	FLD	Value addition in Tamarind	01	25	Scientist-HS, SS&H, Seri.
		Milk	EDP	Value addition in milk	01	25	Scientist-HS, SS&H, Seri.
7.9	Capacity building/group dynamics	Agri and Horticultural crops	Other	Capacity building training for SHGs of women	05	125	Scientist-HS, SS&H, Hort.
7.10	Farm mechanization	Agri and Horticultural crops	Others	Use of specific machinery in horti. Crops like bed maker, reapers, harvesters etc.	02	60	Scientist- SS&H, Hort.
7.11	Fisheries production technologies						
7.12	Mushroom production						
7.13	Agro forestry						
7.14	Bee keeping	Apiculture	Others	Hoenybee rearing as a subsidiary occupation for income generation	02	60	SS&H and PP
7.15	Sericulture	Mulberry	FLD	Increased mulberry productivity through integrated approach	02	50	Scientist-Seri, SS&H, Hort.
		Mulberry	FLD	Integrated pest and disease management in mulberry ecosystem	02	50	Scientist-Seri, SS&H, PP
		Silkworm rearing	FLD	Importance of Disinfection and hygiene maintenance in silkworm rearing	02	50	Scientist-Seri, SS&H, PP
		Silkworm rearing	OFT	Composting and Vermicomposting through recycling of sericultural farm residue	01	30	Scientist-Seri, SS&H, SS&AC
		Silkworm rearing	OFT	IPM of Uzifly, <i>Exorista bombycis</i> in silkworm rearing	01	30	Scientist-Seri, SS&H, FM
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						
8.2	Horticulture production	Fruit crops	Skill development	Propagation techniques in major fruit crops	1	35	Scientist-Hort., SS&H
		Fruit crops	Skill development	Canopy management in major fruit crops	1	35	Scientist-Hort., SS&H & PP
		Vegetable crops	Skill development	Fertigation techniques & micronutrient management in solanaceous vegetable crops	1	35	Scientist-Hort., SS&H & SS&AC
8.3	Livestock production						
8.4	Home Science						
8.5	Plant protection						
8.6	Production of inputs at site						
8.7	Soil health and fertility	Nutrient management	Skill development	Deficiency symptoms and their management through INM	1	25	SS&AC, SS&H, Horti
		Soil fertility	Skill development	Importance of soil testing – sampling and interpretation of soil test values	1	30	SS&AC, PP, SS&H
		Organic farming	Skill development	Organic farming and nutrient management in organic farming	1	30	SS&AC, SS&H, Seri
8.8	PHT and value addition	Mango	Skill development	Value added products preparation for income generation	2	50	H.Sci, SS&H, Horti
8.9	Capacity building/ group dynamics						
8.10	Farm mechanization						
8.11	Fisheries production technologies						
8.12	Mushroom production		Skill development	Mushroom production for income generation	2	40	SS& H and PP
8.13	Agro forestry						
8.14	Bee keeping	Bee Keeping	Skill development	Bee keeping as a subsidiary occupation for income generation	2	50	SS& H and PP
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				
9.2	Home Science	Hygienic practices in food preparation	5	250	Scientist-HS, SS&H, Seri.
		Preparation of iron rich foods to combat anemia	5	20	Scientist-HS, SS&H, Seri.
9.3	Capacity building and group dynamics				
9.4	Horticulture	High Density Planting in Major fruit crops	01	30	Scientist-Hort., SS&H
		Plant propagation techniques in fruit crops	01	30	Scientist-Hort., SS&H
9.5	Livestock production and management				
9.6	Plant protection	Pest and disease management in major Fruit crops	01	25	Scientist-PP, SS&H, Hort.
		Pest and disease management in major Vegetable crops	01	25	Scientist-PP, SS&H, Hort.
		Pest and disease management in major Flower crops	01	25	Scientist-PP, SS&H, Hort.
		Pest and disease management in Field crops	01	25	Scientist-PP, SS&H, SS&AC
9.7	Farm mechanization				
9.8	PHT and value addition	Preparation of value added products from mango, guava, papaya	01	30	Scientist-HS, SS&H, Seri.
		Preparation of value added products from tomato and drumstick	01	30	Scientist-HS, SS&H, Seri.
9.9	Production of inputs at site				
9.10	Sericulture	Recent management strategies in pests of mulberry	01	25	Scientist-Seri, SS&H
		Pest and disease management in silkworm rearing	01	25	Scientist-Seri, SS&H
9.11	Fisheries				
9.12	Other, pl. specify				
	Soil science	Identification of nutrient deficiency symptoms and their management in major horticultural crops	1	30	SS&AC, PP, Horti
		Significance of biofertilizers use for higher production	1	30	SS&AC, Seri, & PP

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	Nutrition security through minor millets diet	1	3	25	-	Scientist-HS, SS&H, Seri.
10.3	Capacity building and group Dynamics						
10.4	Horticulture	Hands on training on plant propagation techniques	2	3	30		Scientist-Hort, SS&H, PP
10.5	Livestock production and management						
10.6	Plant protection						
10.7	Farm mechanization						
10.8	PHT and value addition						
10.9	Production of inputs at site						
10.10	Sericulture	Preparation of bio crafts from waste cocoons	1	5	25		Scientist- Seri.& HS
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 programmes	Duration (days)	Expected number of participants	Sponsoring agency	Names of the team members involved
11.1	Crop production						
11.2	Home Science	Terrace Gardening in Urban Area	02	02	50	Dept. Horticulture, Kolar	Scientist-HS, SS&H, Hort.
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						

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	300	300	All KVK Scientists
12.2	Diagnostic visits	20	60	All KVK Scientists
12.3	Field days	15	450	All KVK Scientists
12.4	Group discussions	25	260	All KVK Scientists
12.5	Kisan gosthies	10	150	All KVK Scientists
12.6	Film shows	20	800	All KVK Scientists
12.7	Self -Help Groups (SHGs) meetings	5	75	All KVK Scientists
12.8	Kisan Melas	2	2000	All KVK Scientists
12.9	Exhibitions	5	4000	All KVK Scientists
12.10	Scientists' visit to farmers fields	190	260	All KVK Scientists
12.11	Plant/soil health/animal health camps	10	800	All KVK Scientists
12.12	Farm science club meetings	4	200	All KVK Scientists
12.13	Ex-trainees sammelans (Meetings)	5	120	All KVK Scientists
12.14	Farmers' seminars/workshops	04	300	All KVK Scientists
12.15	Method demonstrations	20	450	All KVK Scientists
12.16	Celebration of important days	05	200	All KVK Scientists
12.17	Special day celebrations	02	400	All KVK Scientists
12.18	Exposure visits	06	180	All KVK Scientists
12.19	Technology week celebration	01	200	All KVK Scientists
12.20	Farmers Field School (FFS)	01	30	All KVK Scientists
12.21	Farm innovators meet	04	120	All KVK Scientists
12.22	Awareness programmes	06	200	All KVK Scientists
12.23	Pre-kharif campaign	01	500	All KVK Scientists
12.24	Pre-rabi/summer campaign	01	500	All KVK Scientists
12.25	Others, pl. specify			

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				
13.1.2	Demonstration units	Vermicompost units, Vermi wash units, Azolla units	-	2 each	SS&H and FM
13.1.3	Lab analytical services	Soil, water and plant analysis	-	1000 samples	SS&AC
13.1.4	Technology week	Improved production technologies in various field and Horti. Crops, post harvest mgt. of different fruits and vegetables, micronutrient application	-		All KVK staff
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					
13.2.2	Planting material					
	Drumstick Nursery		Drumstick seedlings	-	2000	Farm Manager
	Mulberry Nursery		Mulberry seedlings	-	25000	Scientist(Seri) & Farm manager
	Mango Nursery		Mango seedlings	-	1000	Scientist(Hort) & Farm manager
13.2.3	Bio-products					
13.2.4	Livestock strains					
13.2.5	Fish fingerlings					
13.2.6	Any other, pl specify					
	Micronutrient mixture		Mango special	500 kg	--	SS&AC & FM
	Value added products		Jack fruit	1400 kg	--	Scientist (Home Sci.)
			Amla	650		Scientist (Home Sci.)

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	20	Scientist-SS&AC, SS&H and PP
	b. Horticulture	35	Scientist-Horti, SS&H and PP
	c. Animal Husbandry	-	-
	d. Fisheries	-	-
	e. Agricultural Engineering	-	-
	f. Sericulture	20	Scientist-Seric. and PP
	g. Others, pl. specify (Home Science)	20	Scientist (H.Sci)
13.3.2	Literature/publication	15	All KVK Scientists
13.3.3	Electronic media	10	All KVK Scientists
13.3.4	Kisan mobile advisory services	120	All KVK Scientists
13.3.5	Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies).	-	SS&H and PP

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 Agriculture Price Commission, Bengaluru	Enhancing Farmers Income and Welfare	Trainings : 10 Demos: 05	10.00 lakhs	All KVK Scientists

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 31.01.2019 (Rs. in Lakh)	Expected closing balance by 31.03.2019 (Including value of material in stock/ likely to be produced)
9,79,912	2,36,998	3,40,620	12,07,979	13,20,532

15.2 Plan of activities under revolving fund

Sl. No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
1	Mango special	500 kg	75,000	Scientist -SS&AC
2	Drumstick seedlings	2000 no's	20,000	Farm manager
3	Mulberry seedlings	25000 no's	75,000	Scientist-Seri & Farm manager
4	Mango seedlings	1000 no's	40,000	Scientist-Hort & Farm manager
5	Soil sample analysis	500	1,00,000	Scientist SS&AC
6	Water sample analysis	500	1,00,000	Scientist SS&AC
7	Others- Farm Production			
	1. Leafy vegetables	800	16000	Farm manager
	2. Vegetable cowpea	1600	16000	Farm manager
	3. Pumpkin	500	10000	Farm manager
	4. Field bean (Avere)	400	8000	Farm manager
	5. Foxtail millet	1000	40000	Farm manager
	6. Curry leaf	100	4000	Farm manager
	7. Rose	36000 (cut flowers)	72000	Farm manager
	8. lime	125000 no's	-- (3rd year onwards)	Farm manager
	TOTAL		5,76,000	

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	600	SS&AC
16.2	Soiltest using mobile analysis kit	50	SS&AC
16.3	Water	400	SS&AC
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		
17.2	Creation and maintenance of relevant database system for KVK	By July, 2019 end	
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

19. Farmers Field School (FFS) planned

Thematic area	Title of the FFS	Budget proposed in Rs.
Integrated pest management	Integrated pest management in mulberry	30,000=00

20. Integrated Farming System (IFS) planned

Description of model(s)	No. of models/units	Budget proposed in Rs.

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

(Rs.)				
Sl.No.	Particulars	Sanctioned	Released	Expenditure
21.1	(A). REVENUE (Recurring Contingencies)			
21.1.1	Pay & Allowances	8990000	8181445	7034351
21.1.2	Traveling allowances	80000		47784
21.1.3	Contingencies			
21.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	225000		70106
21.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	175000		117441
21.1.3.c	<i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i>	100000		35732
21.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	50000		41152
21.1.3.e	<i>Frontline demonstrations</i>	230000		124921
21.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	48000		23836
21.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0		0
21.1.3.h	<i>Training of extension functionaries</i>	15000		14338
21.1.3.i	<i>Extension activities/services</i>	50000		0
21.1.3.j	<i>Farmers' Field School</i>	30000		20065
21.1.3.k	<i>EDP (2 Nos.) / Innovative activities</i>	0		0
21.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	25000		24971
21.1.3.m	<i>Maintenance of building</i>	0		0
21.1.3.n	<i>Farmers Conclave, KVK Conference</i>	0		0
21.1.3.o	<i>Video production</i>	0		0
21.1.3.p	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>	5000		980
	Total Recurring			
21.2	(B). CAPITAL (Non-Recurring Contingencies)	0		
21.2.1	Equipments & Furniture			
21.2.2	Works			
21.2.3	Vehicle			
21.2.3 a	Four wheeler (replacement)			
21.2.4	Library			
	Total Non Recurring			
21.3	(C). REVOLVING FUND	0		
	GRAND TOTAL (A+B+C)	10023000		7555677

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	14196928
22.1.2	Traveling allowances	100000
22.1.3	Contingencies	
22.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	200000
22.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	300000
22.1.3.c	<i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i>	100000
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>	364590
22.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	99245
22.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0
22.1.3.h	<i>Training of extension functionaries</i>	30000
22.1.3.i	<i>Extension activities/services</i>	50000
22.1.3.j	<i>Farmers' Field School</i>	30000
22.1.3.k	<i>EDP (3 Nos.) / innovative activities</i>	0
22.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	50000
22.1.3.m	<i>Maintenance of building</i>	0
22.1.3.n	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>	5000
22.1.3.o	<i>Others, pl. specify</i>	0
	Total Recurring (A)	15600763
22.2	(B). CAPITAL (Non-Recurring Contingencies)	
22.2.1	Equipments & Furniture	500000
22.2.2	Works	15500000
22.2.3	Vehicle	700000
22.2.3.a	Four wheeler (replacement)	
22.2.4	Library	
	Total Non Recurring (B)	16700000
	Grand Total (A + B)	32300763