ACTION PLAN OF ICAR KRISHI VIGYAN KENDRA, VIJAYAPURA-II (INDI) FOR THE YEAR-2022-23

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, Vijayapura II (Indi), Station road, Indi Tq: Indi Pincode: 586209 District: Vijayapura State: Karnataka Phone : 08359-200010 Fax : - Email: kvkindi2016@gmail.com kvkindi@uasd.in
1.2	Name and address of host organization	:	University of Agricultural Sciences, Krishi Nagar, Dharwad-05 Phone : 0836-2447494 Fax : 0836-2748199 Email : deuasd@redifmail.com
1.3	Year of sanction	:	2016 (28th September)
1.4	Website address of KVK and date of last update		www.indikvk.org 09.04.2022

2. Details of staff as on date AS ON 19.04.2022

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.	Plant Pathology	131400-2,11,500	Level 13A	09-04-2022	-
2.2	Subject Matter Specialist	Dr. Savita, B.,	Soil Science	57700-92500	Level 10	21-02-2017	-
2.3	Subject Matter Specialist	Dr. Santosh Shinde	Animal Science	57700-92500	Level 10	12-04-2017	-
2.4	Subject Matter Specialist	Mrs. Heena, M.S.	Horticulture	57700-92500	Level 10	24-07-2017	-
2.5	Subject Matter Specialist	Vacant	Home Science	57700-92500	Level 10	-	-
2.6	Subject Matter Specialist	Dr. Syeda Samina Anjum	Plant Pathology	57700-92500	Level 10	28-07-2017	-
2.7	Subject Matter Specialist	Vacant	Agronomy	57700-92500	Level 10		-
2.8	Programme Assistant (Lab Assistant)	Vacant	-	-	-		-
2.9	Technical Officer)Computer Programmer)	Mr. Majeed G	MCA	-	-	24-07-2019	-
2.10	Programme Assistant (Farm Manager)	Vacant	-	-	-		
2.11	Accountant/Superintendent	Miss. Shilparani	Diploma in Agriculture	30350-58250	--	07-08-2017	
2.12	Stenographer	Vacant	-	-	-	-	-
2.13	Driver 1	Mr. S.S. Sanadi	SSLC	21400-42000		25-07-2019	-
2.14	Driver 2	Chandrakant Dasharath	SSLC	21400-42000	-	-	-
2.15	Supporting staff 1	Mr. Shivappa Sharanappa Bagali	6th Class	17000-28950	-	04-09-2017	-
2.16	Supporting staff 2	Vacant	-	-	-		-

3. Details of SAC meeting conducted during 03.01.2022

Date	Major recommendations	Status of action taken in brief	Reasons for no actions, if any
03.01.2022	It is suggested to recommend the crops to farmers suitable for sowing after redgram as there is facility of canal water till march		
	The problem like wilt/dry root rot disease are affecting redgram variety TS-3R crop. Hence, it is suggested to introduce new variety of redgram resistant to wilt/dry root rot disease under dry land condition.		
	As the area under Ajwain crop is increasing in Vijayapura district and as farmers are lacking knowledge on Ajwain production technology and marketing it is suggested to develop package of practices for the crop		
	Suggestions were made to visit Ajwain institute by KVK, Indi Scientist.		
	Cultivation of super Napier and other grasses/fodder verities at KVK to promote among the farmers		
	As expanding canal irrigation area under agriculture and horticulture crops. It is suggested to conduct awareness/training programmes on water use efficiency and saline water management.		
	It is suggested to adopt technologies developed by National Pomegranate Research, Institute Solapur on nutrient management using **Sonaar** a product containing potassium and phosphorus and also a new variety Solapur laal can be tried at Indi jurisdiction.		
	Updating of website of KVK should be		

	done at the monthly interval		
	It is suggested to give impact of KVK in terms of economy, use of social media and departments for image building		
	As Nbeg-47 variety of chickpea and pigeon pea variety GRG-811 giving good impact at KVK jurisdiction it is suggested for seed production to facilitate farmers. For that seed hub fundor loan from KVK, Vijayapura can be utilized by the approval of Vice Chancellor, UAS, Dharwad.		

4. Details of operational areas proposed during 2022-23

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.)
Block – Indi Village - Ahirsang	Sugarcane (Irrigated)- 28 ha	• Planting material (40%) • Root grub (60%) • Wooly Aphid(30%)	18ha	FLD, OFT, Training Programmes, Method demonstrations, Field Visits, field days etc.,
	Redgram (Rainfed. & irrigated)- 23 ha	• Wilt (20%) • Pod borer (45%) • SMD (20%) • Pod Fly (10%)	16 ha	
	Chickpea (Rainfed)- 12 ha.	• Pod borer (30%) • Dry root rot/wilt (20-30%)	8 ha	
	Maize (K) Irrigated-20 ha.	• Fall Army worm (50%) • Micronutrient Deficiency (10%)	12 ha	
	Wheat (irrigated) —12 ha	• Low yield (45%) • Rust (20%)	8 ha	
	Groundnut (Rainfed)-12 ha	• Lack of use of bio- fertilizers,	9 ha	

		• Delay maturity due to S deficiency, • Ca deficiency causes groundnut pegs and pods to abort and reduced yield		
	Onion -06 ha	• Low yield (30%), Rotting (15%) • Sucking pests (20%) • Purple blotch (50%)	4 ha	
	Lime-27 ha	• Micro nutrient deficiency (10%) low yield during summer • Canker (40 %), Die back (10 %) • Wilt (10%), Sucking pests (25 %)	20 ha	
	Grape -4.8 ha	• Stem borer (30%), Fruit rot (15%) • Downey and powdery mildew (25%) • Micro nutrient deficiency (10%)	2.5 ha	
	Pomegranate - 08 ha	• Blight (30%) • Wilt (30%) • Fruit sucking moth (25-30%)	5 ha	
	Chilli -2.4 ha	• Low yield and inferior quality • Murda complex (30%) • Powdery mildew infestation (10%) • Sucking pest (30%)	2.0 ha	
	Watermelon -3 ha	• Flowering and fruit set is , low yielding varieties, • Sucking pests (20%)	2 ha	
	Tomato - 2 ha	• Flowering and fruit set is poor due to deficiency of micronutrients • Yield and quality of fruit is low • High seed cost by using private hybrids	1.4 ha	

	Livestock & poultry	• Lack of knowledge on silage preparation • Low egg laying capacity in local poultry birds • Not aware of improved variety of birds • Scarcity of fodder during summer • Low quality fodder • Slow growth rate in growing goats • Subclinical Mastitis in cows		FLD, OFT, Training Programmes, Method demonstrations, Field Visits, field days etc.,
	Fisheries	• Lack of knowledge on fish rearing in farm ponds • Low Yield, Problem of fish catching birds		
	Post-harvest, Nutrition Security, Drudgery reducing tools and value addition	• Lack of knowledge on value addition (75%) • Unaware of new processing equipment's • Post-harvest losses, Low prevailing market price • Lack of Knowledge about storage practices • Low yield due to non-branching (10 %) • Malnutrition, lack of awareness about nutritious food, non-utilization of resources-Water, Space & organic waste • Lack of awareness on mushroom cultivation, Non utilization of wheat straw and nutritional insecurity		FLD, OFT, Training Programmes, Method demonstrations, Field Visits, field days etc.,
Block –Sindagi	Redgram -320 ha	• Wilt/ dry root rot and pod borer (60%)	250 ha	

Village - Vibhutihalli		• Moisture stress (40%) • Mono-cropping (25 %)		
	Wheat (Rainfed)- 40 ha	• Low yielding lodging varieties (45%) • Rust (10%)	24 ha	
	Chickpea (Rainfed)-240 ha.	• Pod borer (30%) • Dry root rot/wilt (20-30%%)	200 ha	
	Cotton – 300 ha	• Leaf reddening, pink bollworm and sucking pests incidence, lack of knowledge about foliar nutrition	210 ha	
	Maize (K) Irrigated-10 ha.	• Fall Army worm (50%) • Micronutrient deficiency (10%)	6 ha	
	Lime -20 ha	• Micronutrient deficiency (20%), Canker (40%) • Gummosis and die back (10%)	14 ha	
	Pomegranate -12 ha	• Blight (30%) • Wilt (30%) • Fruit sucking moth (25-30%)	8 ha	
	Onion -28 ha	• Low yielding private varieties (30%) • Non availability of season specific varieties • Rotting (15%), sucking pests (20%) • Non-application of sulphur • 15-20 % of storage losses	22 ha	
	Tomato –4 ha	• Flowering and fruit set is poor due to deficiency of micronutrients • Yield and quality of fruit is low • High seed cost by using private hybrids	2 ha	

	Chilli –20 ha	• Low yield and inferior quality • Murda complex (35%) • Powdery mildew infestation (10%) • Sucking pest (35%)	14 ha	
	Watermelon-8 ha	• Flowering and fruit set is , low yielding varieties, • Sucking pests (20%)	5 ha	
	Livestock & poultry	• Scarcity of green fodder during summer • Lack of knowledge on silage preparation • Low egg laying capacity in local poultry • birds • Low quality fodder • Low milk yield and reduced conception rate		FLD,OFT, Training Programmes, Method demonstrations, Field Visits
	Fisheries	• Lack of knowledge on fish rearing in farm ponds		
	Post-harvest and value addition	• Lack of knowledge on value addition (75%) • Unaware of new processing equipment's • Post-harvest losses, Low prevailing market price • Lack of Knowledge about storage practices • Low yield due to non-branching (10 %) • Malnutrition, lack of awareness about nutritious food, non-utilization of resources-Water, Space & organic waste		FLD,OFT, Training Programmes, Method demonstrations, Field Visits

		• Lack of awareness on mushroom cultivation, Non utilization of wheat straw and nutritional insecurity		
Block:Chadachan Village- Gotyal	Redgram -1155 ha	• Pod borer (45%) • SMD (30%) • Dry root rot (30 %)	800 ha	FLD,OFT, Training Programmes, Method demonstrations, Field Visits, field days
	Maize (K) Irri- 580 ha.	• Fall Army worm (75%) • Root grub (25%) • Micronutrient deficiency	450 ha	
	Wheat (irrigated)- 575 ha	• Low yield (55%) • Rust (30%)	420 ha	
	Chickpea (Irri.)-1444 ha.	• wilt (30%) • Pod borer (20%) • Dry root rot (30%)	1264 ha	
	Groundnut (Rainfed)- 288 ha	• No use of bio- fertilizers, • Delay maturity due to S deficiency, • Ca deficiency causes groundnut pegs and pods to abort and reduced yield	245 ha	
	Sugarcane (Irri.) - 150 ha	• Planting material • Stem borer (16 %) • Wooly Aphid (33%)	120 ha	
	Lime-230 ha	• Micro nutrient deficiency (10%) • Canker (40 %), Die back (10 %) • Wilt (10%), Sucking pests (25 %)	180 ha	
	Pomegranate -58 ha	• Blight (30%) • Wilt (30%) • Fruit sucking moth (25-30%)	40 ha	
	Onion - 58 ha	• Low yielding private varieties (30%) • Rotting (15%) • Sucking pests (20%)	42 ha	

		• Non-application of sulphur • 15-20 % of storage losses		
	Tomato – 144 ha	• Flowering and fruit set is poor due to deficiency of micronutrients • Yield and quality of fruit is low • High seed cost by using private hybrids	120 ha	
	Watermelon- 28 ha	• Flowering and fruit set is , low yielding varieties, • Sucking pests (20%).	18 ha	
	Chilli – 56	• Low yield and inferior quality • Murda complex (35%) • Powdery mildew infestation (10%) • Sucking pest (35%)	40 ha	
	Grape – 55 ha	• Powdery mildew (20%) • Stem borer (25%) • Micro nutrient deficiency (10%)	46 ha	
	Livestock & poultry	• Lack of knowledge on silage preparation • Low egg laying capacity in local poultry • birds • Not aware of improved variety of birds • Scarcity of fodder during summer • Low quality fodder • Slow growth rate in growing goats		FLD,OFT, Training Programmes, Method demonstrations, Field Visits, field days
	Fisheries	• Lack of knowledge on fish rearing in farm ponds • Low Yield, Problem of fish catching birds		
	Post-harvest and value addition	• Lack of knowledge on value addition (75%)		FLD,OFT, Training Programmes, Method

		• Unaware of new processing equipment's • Post-harvest losses, Low prevailing market price • Lack of Knowledge about storage practices • Low yield due to non-branching (10 %) • Malnutrition, lack of awareness about nutritious food, non-utilization of resources-Water, Space & organic waste • Lack of awareness on mushroom cultivation, Non utilization of wheat straw and nutritional insecurity		demonstrations, Field Visits, field days

5. Technology assessment during 2022-23

Sl.No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of technology	Name of critical input	Qty per trial (g/kg/no)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members
5.1	Tomato	High seed cost by using private hybrids, Non adoption of disease resistant and high yielding hybrids and micronutrient deficiency	Assessment of tomato hybrids	TO1(FP): Pvt. Hybrid	-			1800 Field board 1000	5	10000	1. No. of fruits per plant 2.EB incidence (%) 3.TOLCV Incidence (%) 4. yield and economics	Horticulture, SS&H, Soil Science
				TO2(RPP): Arka Samrat	IIHR,B	Seeds and vegetable special (5g/lit)	20g 2kg					
				TO3(AP) : Co-4	TNAU	Seeds and vegetable special (5g/lit) Field board	20g 2kg 1					
5.2	Bhendi	Existing hybrids are low yielding Aphids and fruit borer damage	Assessment of Bhendi hybrids for adoptability in Vijayapura District	TO1(FP): Pvt. Hybrid				3000 Field Board 2000	06	20000	1)Fruit length (cm) 2)Fruit borer damage (%) 3) yield and economics	Horticulture, plant protection SS&H
				TO2(RPP): CoBH-4	TNAU	Seeds and vegetable special	0.5kg 1kg					
				TO3(AP) : Arka Nikita Bhendi Pluckers and hand gloves	IIHR,B	Seeds and vegetable special field board	0.5kg 1kg 1					

5.3	Maize	Low yield, improper nutrient management N, P and Zn nutrients deficiency in maize	Assessment of nano fertilizer (N & Zn) on growth and yield of maize	Farmer practice	--			4000	06	24,000	Soil and leaf test before and after application (including Nitrogen and Zinc), Cob weight (gms) No. of rows per cob Yield (q/ha), B:C ratio	Soil Science and Plant Protection
				RDF: 10 t/ha FYM + 150:65:65 NPK kg/ha and $ZnSO_4$ and $FeSO_4$ @ 25 kg/ha each	UAS, Dharwad	FYM NPK $FeSO_4$ $ZnSO_4$	10 t/ha 150:65:65 NPK kg/ha 25 kg/ha each					
				Application of 25% N as basal dose (37.5 kg N/ha), (32.5 kg/ha) 50% K & (65 kg/ha) full P as basal, 25% N at 25-30 DAS, 50% K at tasseling stage, N & Zn Nano fertilizer spray at 30 DAS (4ml/lit and 2ml/lit respectively) and 20 days after first spray	IFFCO – NBRC, Gujarath, 2020	FYM NPK Nano N and Zn fertiliser	75 kg N/ha, 65 K kg/ha, 65 kg/ha, N & Zn Nano fertilizer (4ml/lit and 2ml/lit respectively)					

5.4	Lime	Wilt	Management of wilt in lime	TO1= Uprooting/ drenching/spraying with various pesticides TO2= Sanitation, Drenching wih metalaxyl MZ @ 3 gram /litre Soil application with bio-agents (*Trichoderma harzianum, Paecilomyces and Pseudomonas*) @ 3 kg per acre enriched with 100 kg FYM TO3= Pruning the affected branches/twigs trunk paste with 10% bordaux paste twice a year (before rains and after monsoon) spraying and drenching the diseased plants with either mefonoxam MZ @ 2.5 g per litre or fosetyl AL @ 2.5 g per litre covering full canopy and basin soil application of Neem cake@ 20kg/plant along with *T. harizanium* @ 20 g per plant around root zone Soil application of ZnSo4 and FeSo4 10 kg per acre	UAS, Dharwad NRCC, Nagpur	*Trichoderma harzianum* *Paecilomyces* *Pseudomonas* Neem cake $ZnSO_4$ $FeSO_4$ 10% Bordaux paste Metalaxyl (Rodomil gold) Mefonoxam MZ or fosetyl AL 80 WP (Aliette) @ 2.5 g per litre	4kg 3kg 3kg 200 kg 10 kg 10 kg 100g 250g 250g	7640	05	39000	Disease incidence and yield	Plant Protection, Horticulture and SS and Head

5.5	Onion	Twisting	Management of twisting disease in onion	TO1= Spraying with mixture of pesticides TO2= Soil application of *Trichoderma* sp @2 kg multiplied with 100kg of farm yard manure (FYM)/ha. ▪ Seed treatment with*Trichoderma* sp @ 6 g/kg seed ▪ Seedling root dipping (0.25% carbosulfan 25 EC + 0.1 % carbendazim 50 WP) ▪ Foliar spray of insecticides like profenophos 50 EC @ 2 ml/L or Fipronil 5 SG @ 1ml/L ▪ Foliar spray of fungicide hexaconazole 5 EC or Propiconazole 25 EC (0.1%). ▪ TO3= Soil application of Neem cake 5 q/ha+ *Trichoderma* + *Pseudomonas* 5 kg/ha with 100kg of Farm Yard Manure (FYM)/hectare ▪ Seed treatment with Carbendazim @ 2g/kg and	T01: Farmers Practice TO2: Module 1- DOGR, Rajgurunagar, Pune TO3: Module 2- Adhoc recommendation UAS, Dharwad	Trichoderma harzianum Pseudomonas fluorescens Fipronil 5% SC Propiconazole 25%EC Carbendazim 50 WP Boron Multi K 13:0:45 Neem cake	3kg 3kg 500 ml 500 ml 500g 500 g 600 g 200 kg	7640	05	30560	Disease incidence and yield	Plant Protection, Horticulture and SS and Head

				seedling dip with *Pseudomonas florescens* @ 10 g/l ▪ Foliar spraying with Boron @ 2g/l, Multi K @ 3 g/l, Hexaconazole 5 EC @ 0.1 % and Fipronil 5 SG @ 1ml/l at 30 DAS								
5.6	Poultry	Low egg laying rate in local birds, Lower body weight gain, High feed cost	Assessment of dietary supplementation of fresh and dried Azolla on the performance of Backyard poultry birds	TO1: Local Bird rearing	-				10			
				TO2: Introduction of swarnadhara (20 no.) + Fresh Azolla Feeding + Vaccination against RD and IBD	KVAFSU, Bidar,	swarnadhara (20 no.) + Fresh Azolla Feeding + Vaccination against RD and IBD		2700		54,000	Body weight gain (kg), Egg laying capacity(No.) and Economics	Animal Scientist and SS& H
				TO3: Introduction of Swarnadhara (20 no.) + Dried Azolla Feeding + Vaccination against RD and IBD	NIANP, Bengaluru	Swarnadhara (20 no.) + Dried Azolla Feeding + Vaccination against RD and IBD		2700				

6. Frontline demonstrations during 2022-23

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 (g/kg)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
6.1	Cereals													
6.2	Millets													
6.3	Oilseeds													
6.4	Pulses													
		Pigeon pea	SMD and pod fly	Management of SMD and pod fly in Redgram	TS3 R/G RG-811		UAS, Dharwad	Fenazaquin 10 % EC Thiomethoxam 25% WP Jaggery	250 ml 100g 2 kg	800 200 100	10	11000	yield & economics, % pest and disease incidence	Plant Protection, SS & H and Soil Sci.,
		Chickpea	Unaware of high yielding varieties, Dry root rot disease incidence	Demonstration of Nbeg-47 chickpea variety tolerant to wilt/dry root rot	Nbeg-47		ANGRAU Guntur	NBeG-47 seeds *Trichoderma*	30 kg 250 gram	2590	06	15540	yield & economics, % disease incidence	Plant Protection, Soil Sci., and Animal Sci., and SS& H
6.5	Commercial crops													

		Sugarcane	Low organic matter in soil Burning of trash Lack of awareness about insitu compostin g	*Insitu* composting of Sugarcane trash using UASD compost culture	-	-	UAS, D	UASD Compost culture	5 Kg	1200	10	12,000	Soil fertility status (Initial and Final) Cane yield (t ha-1) Economi cs	Soil Science, Plant Protectio n and SS& H
		Cotton	Leaf reddening, pink bollworm and sucking pests incidence, lack of knowledge about foliar nutrition	Pheromone traps (30 nos/ha), Soil application of MgSO4 @ 25 kg/ha, foliar application of MgSO4 @ 1% at 70 and 90 DAS and alternate furrow irrigation. Profenophos 2ml/L within 100 DAS, At 110-130 DAS use of need based pyrethroid insecticide @ 0.5 ml/ltr. 5% neem oil spray + intercropping of greengram (DGGV-2 variety).	Green gram-DGG V-2	Bt cotto n (priva te hybri d)	UAS, D	Greengram (DGGV-2) - Pheromone traps + lures MgSO4 (Soil application) MgSO4 (Foliar application) 5% Neem oil Profenophos Soil sample before and after	5 Kg 12+24 Nos. 10 kg 4 kg 1L 500 ml 02	3,200	6	19,200	Soil sample before and after applicati on Larvae / plant , No. of bolls/ plant , leaf reddenin g index and yield	Soil Science, Plant Protectio n and SS& H

6.6	Horticultural crops													
		Onion	Non-application of sulphur 15-20 % of storage losses	Demonstration of Sulphur application in Onion for better yield	-		NHRDF, Nasik	Sulphur (Bentonitesulphur) *Azospirillum* PSB	35 kg 1 kg 1kg	**2500/-**	06	15,000	Fresh weight of onion (g), dry weight of onion (g), bulb diameter (cm), yield (t/ha) and B:C ratio, Soil sample analysis before and after	Soil Science, Horticulture, Plant Protection and SS&H
		Brinjal	Low yield due to inadequate use of major and micronutrients, poor flowering occurrence of shoot and fruit borer and sucking pest.	Integrated crop management in Brinjal (Use of Arka Microbial Consortia, foliar application of micro nutrient mixture (Vegetable special) and IPM.)		private hybrid	IIHR, Bengaluru	Arka Microbial Consortia Vegetable special Neem oil Pheromone traps Emamectin Benzoate 5% SG	3lit 3kg 500ml 05 100g	3000	08	24,000	Fruit weight (g), % shoot and fruit borer damage Yield and economics	Horticulture, Plant Protection, Home Sc. & SS&H

		waterm elon	High seed cost of existing hybrids and seeds should be purchased every time	Introduction of new watermelon variety – Arka Shyama	Arka Shya ma		IIHR, Beng aluru	Seeds Sticky traps Neem oil 1500ppm Vegetable Special	200g 8 Nos. 1lit 2 kg	4000	5	20000	Fruit length (cm), Fruit weight (g), Yield and economi cs	Horticult ure,SS& H & Soil science
		Rose	Thin flower stalk and Low yield High incidence of leaf spot, PM and DM , thrips and mite damage. Lower shelf life	Demonstration of New Rose variety Arka Savi for loose flower and garland making		Arka Savi	IIHR, Beng aluru	Plants	500	1750 0	2	35,000	1.No. of flower per plant 2.Weight of flower per plant (g) 3.Shelf life (Days) 4.Yield (Tons) & Economi cs (Rs)	Horticult ure,SS& H
		Lime	Micro nutrient deficiency, low yield during summer	Bahar and micronutrient management in Lime	Kagzi lime		IIHR, Beng aluru	Citrus Special Lihocin	6 kg 1 lit	2,350	08	18,800	Percent mite incidence (%) Yield and economi cs	Hort, Plant Prt, Soil Sc

		Pomegranate	Flower drop 20% Higher cost of inorganic fertilizer	Demonstration of novel microorganism (Penicilliumpinophilum) for nutrient management in Pomegranate	Kesar		NRC, Pomegranate	"SONAAR" bio-mixture	3 kg	2,100	10	21,000	Yield & Economics Average fruit weight No. of fruits per plant	Soil Science, Horticulture, Plant Protection
		Water melon	Low yield due to wilt, powdery and downy mildew diseases, bud necrosis virus disease and viral diseases	Integrated disease Management in Watermelon			UHS, Bagalkot	Arka Veg. Special Fipronil Sticky traps (both yellow and blue) Metalaxyl + Mancozeb Propiconozole	2 KG 200 ml 40+40 500 g 500 ml	3800	05	19000	Percent disease Incidence (PDI), Yield (q/ha) and Economics	Plant Protection, SS and Head Horticulture,
		Lime	Citrus canker and Leaf Miner	Management of Citrus bacterial canker and leaf miner	Kagzi		UAS, Dharwad, NRC, Nagpur	Copper oxy chloride @ 0.2% Streptocycline @ 0.05% Pseudomonas liquid @ 5 ml/L Imidachloprid 17.8 SL	1 kg 200 gm 1000 ml 200 ml	3385	10	33850	yield & economics, % citrus canker, % leaf miner	Plant Protection, SS and Head , Horticulture and

6.7	Livestock	Livestock	Low milk yield, Low quality of milk, higher incidence of sub clinical mastitis	Demonstration on clean milk production procedures for prevention of mastitis in cows			KVAFSU, Bidar	CMT kit	01	900	10	23,500	Incidence of sub clinical mastitis (%), Milk Yield (lit./day)	Animal Science, SS&H
								Teat dipping solution	500 ml	500				
								Dipcups	01	250				
								KMnO4	100 gm	100				
								Intra-mammary Infusion	04	600				
								Subtotal		2350				
	Livestock	Fodder	Scarcity of quality fodder during summer, low milk yield, lack of knowledge on new varieties	Perennial Supply of Green Fodder model	-	-	IGFRI, Dharwad and TNAU, Coimbator	Co-5 stem cuttings	1000	1000	10	29,000	Total Fodder Yield (ton/hectare), Milk Yield (Lit./day)	Animal Science, Soil Science, SS&H
								Lucerne Seeds	0.5 Kg	600				
								Stylo Hemata	0.5 kg	500				
								CoFs-31 Seeds	1 Kg	800				
								Subtotal		2900				
	Livestock	Fodder	Low milk yield, Scarcity of fodder during summer, Lack of knowledge on silage	Demonstration on preservation of green fodder in the form of silage using silo bag	-	-	KVAFSU, Bidar	1. Silo Bag	12	1,100	12	21,600	Quality of silage (grade), Milk Yield (lit./day)	Animal Science, Plant pathology SS&H
								2.Molasses/Jaggery	06 kg	350				
								3. Mineral Mixture	1kg	350				
								Subtotal		1800				

	Fisheries	Inland Fish farming	Lack of knowledge on composite fish culture Low body weight and high mortality	Promotion of composite fish farming in farm ponds	Catla, Rohu, Common carp	-	KVA FSU, Bidar	1. Fingerlings 2. Pellet feed	1500 no 25 kg	1500 1250	06	18,000	1. Net weight gain (kg) 2. Mortality rate (%) Economics	Animal Science, Horticulture and SS&H
								Subtotal		2750				

Nutri-Farms:

Nutri farms	Demonstration of nutri-farms for year round nutrition security among farm families	lack of awareness about nutritious food, non-utilization of resources-Water, Space & organic waste	AICRP model - Scientific nutrition garden Source: UAS(B)	IIHR, Arka Vegetable kit	-	IIHR, Bengaluru	Vegetable seed kit, seedlings and vegetable special	Two Vegetable seed kit, seedlings and vegetable special	500	30	15,000	Total production of vegetable, Daily utilization of Fruits& Vegetables in diet, Amount Saved over the period, Preference, Food adequacy * Expenditure on amount spent on vegetable purchased and observation of amount spent on health care of before and after implementation	Horticulture, Animal Science and SS&H

7. Training for farmers/ farm women during 2022-23

Sl.No.	Thematic area and the crop/ enterprise	Crop / Enterprise	Related field intervention (OFT/FLD/ Others)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
7.1	Crop production						
7.2	Horticulture production						
		Tomato	OFT	Recent advances in Tomato cultivation	01	25-30	Hort, Plant Prt, Soil Sc.& SS &H
		Bhendi	OFT	ICM in Bhendi	01	25-30	Hort., Plant Prt. & Animal Sc.
		Brinjal	FLD	Recent advances in Brinjal cultivation	02	25-30	Hort, Plant Prt, Soil Sc.& SS &H
		Lime	FLD	ICM in lime	02	25-30	Hort, Plant Prt, Soil Science & SS&H
		Pomegranate	FLD	Recent advances in pomegranate	01	25-30	Hort, Plant Prt, & SS&H
		Grape	Others	Production technology of grape	01	25-30	Hort, Plant Prt, Soil Science & SS&H
7.3	Livestock production	Fodder	OFT	Azolla Cultivation and its importance	02	50-60	Sci (Anim Sc.), Soil Science, SS&H
		Poultry	IFS	Swarnadhara poultry farming	01	20-40	Sci (Anim Sc.), palnt pathology, SS&H
		Sheep and goat	FLD	Broiler goat farming : a way to become successful entrepreneur	02	50-60	Sci (Anim Sc.), SS&H
		Livestock	FLD	Perennial Fodder Cultivation	02	50-60	Sci (Anim Sc.), SS&H
		Fodder	FLD	Enrichment of dry fodder for enhancement of milk production in cows	02	40-60	Sci (Anim Sc.), Horticulture, SS&H
		Livestock	FLD	Clean milk production	01	25-30	Sci (Anim Sc.), Soil Science, SS&H
		Fodder	FLD	Silage Preparation	02	50-60	Sci (Anim Sc.), Horticulture, SS&H
7.4	Home Science						

7.5	Plant protection	Apiculture	OFT	Management of foliar diseases of onion	01	25-30	PP, SS and Head, horticulture
		Redgram	-	Management of stem borer in fruit crops (Pomegranate, Ber, Grapes)	01	25-30	PP, SS and Head, horticulture
			-	IPDM in sugarcane	01	25-30	PP, SS and Head, soil science
			-	IPDM in vegetable crops	01	25-30	PP, SS and Head, and soil science
			FLD, OFT	IPDM in lime	01	25-30	PP, SS and Head, horticulture
			-	Safe use of pesticides in Agriculture	01	25-30	PP, SS and Head
7.7	Soil health and fertility	Maize	OFT	Importance of Nitrogen and Zinc in maize	01	25-30	Soil Science and Plant Pathology
		Cotton	FLD	Management of leaf Redding and pink boll worm in cotton	01	25-30	Soil Science and Plant Pathology
		Pomegranate	FLD	Importance of biofertilizer in agriculture	01	25-30	Soil Science, Hort, Plant Prt,
7.8	PHT and value addition	-	-	-	-	-	-
7.9	Capacity building/ group dynamics	-	-	-	-	-	-
7.10	Farm mechanization	-	-	-	-	-	-
7.11	Fisheries production technologies	Inland Fish	FLD	Composite fish rearing in farm ponds	01	30	Animal Science, Horticulture, SS&H
7.12	Mushroom production						
7.13	Agro forestry	-	-	-	-	-	-
7.14	Bee keeping						
7.15	Sericulture						
7.16	Others, pl. specify						

8. Training for rural youth during 2022-23

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						
		Commercial horticulture crops	Skill development	Propagation techniques in fruit crops	01	25-30	Horticulture, Plant Prt,SS& H
		Commercial horticulture crops	Skill development	Vegetable nursery raising techniques	01	25-30	Horticulture, Plant Prt, SS& H
8.3	Livestock production		Skill Development	Scientific Dairy farming	01	30	Animal Science, Soil Science, SS&H
			Skill Development	Scientific Sheep and Goat farming	01	30	Animal Science, SS&H
			Skill Development	Scientific Poultry farming	01	30	Animal Science, Horticulture, SS&H,
8.4	Home Science						
8.5	Plant protection		Skill development	Management of pest and diseases through formulations of biopesticides	01	25-30	Plant protection, Horti., soil science,
			Skill development	Safe use of fungicides and insecticides in agriculture and horticulture	01	25-30	Plant protection, Horti.,
8.6	Production of inputs at site	Vermicomposting	Skill development	Production of vermicompost	02	60	Soil Science & Animal Science
8.7	Soil health and fertility	Agricultural crops	Skill development	Fertigation	01	25-30	Soil Science, Horticulture and Plant Pathology

		Agricultural crops	Skill development	Scientific way of soil sampling procedure in agricultural and horticultural crops	01	25-30	Soil Science and Horticulture
		Horticultural crops	Skill development	Leaf sampling for nutrient analysis in horticultural crops	01	25-30	Soil Science, Horticulture and Plant Pathology
8.8	PHT and value addition						
8.9	Capacity building/ group dynamics						
8.10	Farm mechanization						
8.11	Fisheries production technologies	Inland Fish	Skill Development	Composite fish rearing in farm ponds	01	30	Sci (Animal Sc.), Horticulture, SS&H
8.12	Mushroom production						
8.13	Agro forestry						
8.14	Bee keeping						
8.15	Sericulture						
8.16	Others, pl. specify						

9. Training for extension personnel during 2022-23

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				
9.3	Capacity building and group dynamics				
9.4	Horticulture	Production technology of flower crops	01	30	Horticulture, Plant Prt& SS&H
9.5	Livestock production and management	Management of reproductive problems under field conditions	01	30	Sci (Anim Sc.), SS&H
9.6	Plant protection				

		IPDM in Kharif crops	01	30	Plant prot., SS &H, soil science
		IPDM in Horticultural crops	01	30	Plant prot., SS &H, soil science
9.7	Farm mechanization				
9.8	PHT and value addition				
9.9	Production of inputs at site				
9.10	Sericulture				
9.11	Fisheries				
9.12	Other, pl. specify				
		Biofertilizers applications, uses and their role in agriculture	01	30	Soil Science Agronomy and Plant Protection

10. Vocational trainings during 2022-23

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						
10.3	Capacity building and group Dynamics						
10.4	Horticulture	Dry land horticulture	01	2	25	ATARI	Horticulture, Plant Prt& SS&H
10.5	Livestock production and management	Scientific goat farming	02	03 days	30	-	Sci (Anim Sc.), Soil Science, SS&H
		Scientific Dairy farming	01	03 days	30	-	Sci (Anim Sc.), Plant pathology, SS&H
		Scientific Poultry farming	01	03 days	30		Sci (Anim Sc.), Horticulture, SS&H
10.6	Plant protection	Organic farming	01	5	25	ATARI	Plant Prt ,SS&H &

							Horticulture,
10.7	Farm mechanization						
10.8	PHT and value addition						
		Mushroom cultivation					
10.9	Production of inputs at site						
10.10	Sericulture						
10.11	Fisheries						
10.12	Other, pl. specify						
		Problematic soils and their management	01	25	ATARI	25-30	Soil Science Agronomy

11. Sponsored trainings during 2022-23

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						
11.3	Capacity building and group Dynamics						
11.4	Horticulture	Value addition of acid lime	1	1	25-30	Lime board	Horticulture & Soil Science

11.5	Livestock production and management	Azolla Cultivation and its importance	01	01	30-40	ATMA	Sci (Anim Sc.), SS&H
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 2022-23

Sl. No.	Extension activity	No. of activities	Targeted number of participants	Names of the team members involved
12.1	Advisory services	440	1500	All Scientist
12.2	Diagnostic visits	98	328	All Scientist
12.3	Field days	12	360	All Scientist
12.4	Group discussions	16	655	All Scientist
12.5	Kisan gosthies	7	325	All Scientist

12.6	Film shows	13	650	All Scientist
12.7	Self -Help Groups (SHGs) meetings	1	50	All Scientist
12.8	Kisan Melas	2	1000	All Scientist
12.9	Exhibitions	4	950	All Scientist
12.1	Scientists' visit to farmers fields	52	235	All Scientist
12.11	Plant/soil health/animal health camps	2	140	All Scientist
12.12	Farm science club meetings	1	50	All Scientist,
12.13	Ex-trainees (Meetings)	0	0	All Scientist
12.14	Farmers' seminars/workshops	3	130	All Scientist
12.15	Method demonstrations	15	452	All Scientist
12.16	Celebration of important days	10	135	All Scientist
12.17	Special day celebrations	12	400	All Scientist
12.18	Exposure visits	02	100	All Scientist
12.19	Technology week celebration	1	50	All Scientist
12.2	Farmers Field School (FFS)	1	20	All Scientist
12.21	Farm innovators meet	0	0	All Scientist
12.22	Awareness programmes	13	680	All Scientist
12.23	Pre-kharif campaign	1	100	All Scientist
12.24	Pre-rabi/summer campaign	1	100	All Scientist
12.25	Others, pl. specify	0	0	All Scientist

13. Activities proposed as knowledge and resource center during 2022-23

13.1 Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha)	Number	Names of the team members involved
13.1.1	Demonstration units	Kitchen garden	250m^2	1	Horticulture
		Nursery unit	0.2	1	Horticulture
		Fruits orchard (Sapota, guava, pomegranate and dragon fruit)	1.5 ha	1	Horticulture
		Medicinal block (Medicinal and aromatic crops)	250m^2	1	Horticulture
13.1.2	Demonstration units	Kitchen garden	250m^2	1	Horticulture
		Fodder block Making Unit		1	Animal Science
		Azolla Unit	-	1	Animal Science
		Fodder park	2 Acre	-	Animal Science
		Dairy Unit	-	1	Animal Science
		Poultry Unit		01	Animal Science
		Vermicompost Unit	-	1	Plant Protection
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 2022-23 (q)	Number planned to be produced during 2020-21	Names of the team members involved
13.2.1	Seeds		Ajwain		2q	Horticulture
		-				
			Redgram	50	-	SS & H and farm manager
			Bengalgram	20	-	
			Rabi jowar	40	-	
13.2.2	Planting material					
		Planting material		Lime seedlings	2000	2000
13.2.3	Bio-products					
13.2.4	Livestock strains					
13.2.5	Fish fingerlings					
13.2.6	Any other, pl specify	Any other, pl specify		Citrus special	1000kg	1000kg

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	4	Plant Protection and Soil Science
	b. Horticulture	5	Horticulture and Plant Protection
	c. Animal Husbandry	05	Animal Science
	d. Fisheries	01	Animal Science
	e. Agricultural Engineering		
	f. Sericulture		
	g. Others, pl. specify Child and social welfare	2	Home Science
13.3.2	Literature/publication	20	Plant Protection, Horticulture, Animal Science and Soil Science
13.3.3	Electronic media	25	Plant Protection, Horticulture, Animal Science and Soil Science
13.3.4	Kisan mobile advisory services		
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 2022-23

Sl.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
14.1	RKVY, Govt. of India	Research	Standardization and promotion of drip-irrigation and fertigation technology for maximised productivity in acid lime (*Citrus aurantifolia* Swingle) under Northern Dry Zone of Karnataka	17,00,000.00	Dr. Savita B Dr. R. B Negalur, Dr. Sadhana Babar Mrs. Heena M.S., Dr. Syeda Samina Anjum
14.2	UAS (D), KVK, Indi	Research	Management of chilli root-knot nematode	--	Dr. Syeda Samina Anjum
14.3	ATMA	Research	Short term research and extension	2,00,000	Plant Protection, Soil Science, Horticulture, Animal Science
14.4	UAS (D), KVK, Indi	Research	Effect of Pomegranate peel extract on productive performance of swarnadhara poultry birds	1,50,000	Dr. Santosh Shinde

15. Revolving fund

15.1 Financial status of revolving fund

Opening balance as on 01.04.2022 (Rs. in Lakh)	Expenditure incurred during 2022-23 (Rs. in Lakh)	Receipts during 202-23 (Rs. in Lakh)	Closing balance as on 31.03.2023 (Rs. in Lakh)
6.00	10.00	15.00	11.00

15.2 Plan of activities under revolving fund

Sl.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
15.2.1	Production of milk from dairy animals	3000 lit.	80,000	Scientist (Animal Science)
15.2.2	Stem cuttings of Co-5, CoFs-31, Lucerne and azolla	1000	10,000	Scientist (Animal Science)
15.2.3	Fodder blocks production	20,000	5,000	Scientist (Animal Science)
15.2.4	Chick Production	16,000	40,000	Scientist (Animal Science)
15.2.5	Sale of Poultry birds	1,20,000	50,000	Scientist (Animal Science)
	Sale of Goats	60,000	15,000	Scientist (Animal Science)

15.2.6	Poultry unit	1000 birds	50,000.00	Scientist (Animal Science)
15.2.7	Fodder blocks production	20000	20,000	Scientist (Animal Science)
15.2.8	Vermi-compost	4000 kg	37000	Scientist (Plant Protection)
15.2.9	Soil sample analysis	500 nos	1,00,000	Scientist (Soil Science)
15.2.10	Soil sample analysis	500 nos	50,000	Scientist (Soil Science)
15.2.11	Horticulture Seedling	1000	10,000	Scientist (Horticulture)

16. Activities of soil, water and plant testing laboratory during 2022-23

Sl.No.	Type of samples	No. of samples to be analyzed	Names of the team members involved
16.1	Soil test using analytical lab	**60**	Dr. Savita B.
16.2	Soil test using mobile analysis kit		
16.3	Water		
16.4	Plant		
16.5	Others, pl. specify		

17. E-linkage during 2022-23

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	April, 2024	--
17.2	Creation and maintenance of relevant database system for KVK FLD and OFT, Soil and water testing result data base, training data base	Creation of Farmer database of FLD and OFT	
17.3	Any other (Please specify) : Sending message through Kisan portal, sending newspaper coverage.	-	

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.
FFS	Backyard Swarnadhara poultry farming	30,000

20. Integrated Farming System(IFS) planned

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

21. Details of budget utilization (2021-22) upto 31 March 2022

(Rs. in Lakh)

Sl.No.	Particulars	Sanctioned	Released	Expenditure	Balance
21.1	(A). REVENUE (Recurring Contingencies)				
21.1.1	Pay & Allowances	1,26,00,000	1,26,00,000	1,15,32,781	11,067219
21.1.2	Traveling allowances	62,000	62,000	55,614	6386
21.1.3	Contingencies				
21.1.3.a	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter	2,50,000	2,50,000	2,49,980	20
21.1.3.b	POL, repair of vehicles, tractor and equipments	2,25,000	2,25,000	2,24,806	194
21.1.3.c	Food/refreshment for farmers/extension personnel @ Rs.150/person/day	1,00,000	1,00,000	99,960	40
21.1.3.d	Training material (need based materials and equipments for conducting the training)	40,000	40,000	39,991	8
21.1.3.e	Frontline demonstrations	3,58,000	3,58,000	3,57,748	252
21.1.3.f	On farm testing (OFTs)/Technology Assessment	96,500	96,500	96,003	497
21.1.3.g	Integrated Farming System (IFS) (Min. 5 Units)	0.0	0.0	0.00	00

21.1.3.h	Training of extension functionaries	40,000	40,000	40,000	00
21.1.3.i	Extension activities/services	75,000	75,000	74,990	10
21.1.3.j	Farmers' Field School	22,000	22,000	21,990	10
21.1.3.k	EDP (2 Nos.) / Innovative activities	11,200	11,200	11,200	00
21.1.3.l	Soil & water testing & issue of soil health cards	30,000	30,000	30,000	00
21.1.3.m	Maintenance of building	0.0	0.0	0.0	0.0
21.1.3.n	Nutrigradens-40demonstartion	17300	17300	17260	40.00
21.1.3.o	Library (Purchase of Journals, Periodicals, News Papers& Magazines)	5,000	5,000	4,930	70.00
	(A) Total Recurring	1,39,32,000	1,39,32,000	1,28,35,063	10,96937
21.2	(B). CAPITAL (Non-Recurring Contingencies)				
21.2.1	Equipments & Furniture	8,00,000	8,00,000	6,93,704	106296
		6,00,000	6,00,000	74,000	526000
	(B) Total Non Recurring	14,00,000	14,00,000	7,67,704	632296
21.3	(C). REVOLVING FUND	0	0	0	
	GRAND TOTAL (A+B+C)	**1,53,32,000**	**1,53,32,000**	**1,36,02,767**	**17,29,233**

22.**Details of Budget Estimate based on proposed action plan(2022-23)** (Rs in Lakhs)

S. No.	Particulars	BE 2022-23 (Rs. In Lakhs)
24.1	Recurring Contingencies	
24.1.1	Pay & Allowances	120.00
24.1.2	Traveling allowances	2.50
24.1.3	Contingencies	15.10
24.1.4.1	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	3.50
B	POL, repair of vehicles, tractor and equipments	3.00
C	Meals/refreshment for trainees	1.25
D	Training material	0.50
E	Frontline demonstration except oilseeds and pulses	3.50
F	On farm testing	2.00
G	Training of extension functionaries	0.50
H	FFS	0.30
I	Maintenance of buildings	0.00
J	EDP/Innovative activities	0.00
K	Soil & Water testing and issue of SHC	0.50
l	Library	0.05
	Total Recurring	**137.60**

21.2	(B). CAPITAL (Non-Recurring Contingencies)		
21.2.1	Equipment & Furniture (Including tractor)		5,00,000
	Furniture and furnishing	3.00	
	IT	0.00	
	Office and Hostel Furniture	2.00	
21.2.2	Works		1,76,00,000
	a) Staff quarters	150	
	a) Demonstration unit (2)	16	
	a) Bio Control Lab	10	
21.2.3	Vehicle (Four wheeler)		
21.2.4	Library (Purchase of assets like book & Journal back volume)		0.00
	Total Non-Recurring		1,81,00,000
21.3	(C). REVOLVING FUND		
	GRAND TOTAL (A+B+C)		**3,18,00,000**

-:O:-