

ICAR-ATARI, ZONE-XI, BENGALURU

PROFORMA FOR ACTION PLAN 2021-22

GUIDELINES

(Please read carefully before preparing action plan)

1. It is mandatory to fill all the items of activities in the format. Further, additional activities within the mandate which are relevant to increase income of farmers in the operational villages will be encouraged.
2. For the activities proposed to be continued, all the data of the previous year(s) must be presented, supported by visuals.
3. Integrate all the ongoing major schemes like CFLDs, Seed Hub, NICRA, ARYA, Sujala, ASCI skill training, KKAetc as well as sponsored projects such as state/central sector projects, host organization activities and other agencies in the selected DFI villages.
4. Villages where ongoing projects are implemented may be considered on priority as cluster villages (operational) for KVK action plan.
5. Household as a whole need to be emphasized with possible interventions to achieve significant increase in income within a short period of time. KVK can plan to cover all households in a phased manner.
6. Decide on the number of households to be covered in each village based on schemes implemented and budget available.
7. Plan to involve all sections of the community and households (women, youth, SC/ST etc).
8. Action plan should include a combination of OFTs, FLDs, training and extension activities to achieve higher productivity/income.
9. Entire KVK team must be involved in the preparation of action plan for combination of interventions.
10. In the case of FLDs on varietal performance, ensure that the varieties / hybrids are not older than 10 years.
11. Vocational trainings, EDPs and Market interventions should be planned for value-chain oriented activities of the major crops/commodities.
12. Recommendations of SAC related to technical activities should be addressed in the action plan.

ICAR-ATARI, ZONE –XI, BENGALURU

PROFORMA FOR ACTION PLAN OF KVKs IN ATARI, ZONE XI FOR 2021-22

1. General information about the KrishiVigyan Kendra

1.1	Name and address of KVK with phone, fax and e-mail ID	:	ICAR-Krishi Vigyan Kendra, Hanumanamatti, Ranebennur Taluk, Haveri District, Karnataka State Ph: 08373-253524, Fax: 08373-253524 Email: kvk.Haveri@icar.gov.in / kvk_haveri@rediffmail.com
1.2	Name and address of host organization	:	University of Agricultural Sciences, Krishi Nagar, Dharwad
1.3	Year of sanction	:	1976
1.4	Website address of KVK and date of last update	:	www.kvkhaveri.com and last updated on December 2020

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. P. Ashoka	Agronomy	37400-67000	9000	03.02.18	-
2.2	Subject Matter Specialist	Dr. Rajkumar. G.R	Soil Science	15600-39100	7000	16.07.19	-
2.3	Subject Matter Specialist	Dr. K. P. Gunndannavar	Ag. Entomology	15600-39100	7000	05.06.17	-
2.4	Subject Matter Specialist	Dr. Shivamuruty D	Agronomy	15600-39100	6000	21.02.18	-
2.5	Subject Matter Specialist	Dr. Santosh H. M	Horticulture	15600-39100	6000	22.07.19	-
2.6	Subject Matter Specialist	Dr. Mahesh Kadagi	Animal Science	15600-39100	6000	13.07.19	-
2.7	Subject Matter Specialist	Vacant	Home Science	-	-	-	-
2.8	Programme Assistant (Lab)	Mr. Kishna Naik L	Programme Assistant (Lab)	9300-34800	4200	09.05.17	-
2.9	ProgrammeAssistant (Computer Programmer)	Mr. Chandrakant Kotabagi	Technical Officer (computer)	9300-34800	4600	03.03.21	-
2.10	Programme Assistant (Farm Manager)	Mr.Kallesh D T	Technical officer (Farm Management)	9300-34800	4600	14.07.16	-
2.11	Accountant/Superintendent	Mr. C. R. Arkachari	Assistant	43100-83900	-	23.03.20	-
2.12	Stenographer	Shivappa Hanni	Stenographer	40900-78200	-	24.01.19	-
2.13	Driver 1	Santosh Naik	Driver (LMV)	11600-21000	-	02.04.18	-
2.14	Driver 2	Vacant	-	-	-	-	-
2.15	Supporting staff 1	K. B. Belakeri	Supporting staff Grade-II	10400-16400	-	01.07.02	-
2.16	Supporting staff 2	Basavaraj Nelogal	Supporting staff Grade-II	10400-16400	-	-	-

3. Details of SAC meeting conducted during 2020-21

Date	Major recommendations	Status of action taken in brief	Reasons for no actions, if any
15.11.2020	Suitable control measure for purple blotch disease in onion	FLD on Onion is planned to overcome the problem	-
15.11.2020	Suitable control measures for reddening of maize crop	Suggested to apply soil test based fertilizers	-
15.11.2020	Awareness campaign on farm mechanization, PHT and Value addition in food crops	Action will be taken	-
15.11.2020	Prepare action plan problems in major crops based on suggestion by the line department officials	Action plan prepared as per problems identified by line department officials for growing of major crops in Haveri district	-
15.11.2020	Prepare suitable action plan for growing of pulses and oilseed crops after harvesting of paddy during Rabi season	Implemented FLD on Greengram in Paddy harvested fields	-
15.11.2020	Each year analyze 3000 soil sample and provide training on soil health management	Action initiated	-
15.11.2020	Prepare soil fertility map of Haveri district based on NBSS & LUP module	Action initiated	-
15.11.2020	Training programme for line department officials	Action initiated	-
15.11.2020	Suitable control measures for management of snails in Beetle vine orchard	Action initiated	-
15.11.2020	Suitable control measures for management of Rhizome rot disease in Ginger	Trainings will be conducted during cropping season	-
15.11.2020	Provide information on weed management in Maize, application of nutrients and high yielding varieties in Groundnut	Information will be given	-
15.11.2020	Plant protection measures in Mulberry crops	FLD has been planned for the year 2021-22	-
15.11.2020	Invite the bank officials for major programmes organized by KVK	Action will be taken	-
15.11.2020	Organize seminars and training on Jasmine and Mango	Action will be taken	-
15.11.2020	Prepare production technology on Bamboo	Trainings will be conducted	-
15.11.2020	Send proposal to UAS Dharwad for establishment of CSR at KVK office	Action initiated	-

4. Details of operational areas proposed during 2021-22

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				
Baradur	Groundnut	<ul style="list-style-type: none"> • Use of local variety, • Imbalanced nutrition , • Poor pest and disease Management • No seed treatment 	2000 ha	FLD: Integrated Crop Management in Groundnut
	Black gram	<ul style="list-style-type: none"> • Low yield due to severe • Yellow mosaic virus disease • Use of local variety • Photo sensitivity • Non availability of new variety 	600 ha	OFT: Assessing the performance of the Black gram varieties
	Bengalgram	<ul style="list-style-type: none"> • Low yield • Improper nutrient management • Wilting 	2000 ha	FLD: Demonstration of Bengalgram Variety Jaki- 9218 and nutrient management
Cluster B				
Bishettikoppa				
	Maize	<ul style="list-style-type: none"> • Non availability of university hybrids, • Lack of disease and drought resistant. • Low yield 	2500 ha	OFT: Assessment of Maize hybrids for higher yield and economics
	Rabi sorghum	<ul style="list-style-type: none"> • Low yield due to use of local variety • Lodging and poor fodder quality 	31878 ha	FLD: : Demonstration of Rabi sorghum variety SPV-2217
Cluster C				
Shigihalli		•		
	Soybean	<ul style="list-style-type: none"> • Use of local variety • No seed treatment • Improper nutrient management • Lack of knowledge about pest and disease management 	300 ha	FLD: Demonstration of soybean variety DSb-34
	Sugarcane	<ul style="list-style-type: none"> • Low yield (50 t/ha), • Poor management practice • Lack of awareness on new varieties • Non availability dual purpose variety (sugar and Jaggery purpose) 	800 ha	FLD: Demonstration of Sugarcane variety Co-9004 for higher yield and income

	Mango	<ul style="list-style-type: none"> • Use of banned chemicals for mango fruits artificial ripening • Low income • Poor consumer acceptance • Loss in fruit weight 	5600 ha	OFT: Assessment of ripening methods in Mango (Var.Alphanso)
	Fodder crops	<ul style="list-style-type: none"> • Scarcity of green fodder (20%) • Low milk yield and poor quality milk 	-	FLD: Demonstration on improved varieties Fodder crops and fodder tree
	Maize	<ul style="list-style-type: none"> • Excess urea top dressing in Maize • No Soil Testing 	1,85,000 ha	OFT: Assessment of Nano-Nitrogen application in Maize
	Greengram	<ul style="list-style-type: none"> • Low yield due to use of local variety, pest incidence • Lack of uniform maturity 	1000 ha	FLD: Integrated Crop Management in Greengram
	Nutrition Garden	<ul style="list-style-type: none"> • Lack of awareness about nutrition & Nutrition garden • Malnutrition • Fluctuation in vegetable prices 	-	FLD: Nutrition Garden
Cluster D				
Yadagodi				
	Tomato	<ul style="list-style-type: none"> • Low yield • Low quality fruits • Incidence of pin worm 	200 ha	FLD: Management of pin worm in Tomato
	Onion	<ul style="list-style-type: none"> • Low yield (160-180q/ha) • High incidence of purple blotch • Incidence of thrips 	500 ha	FLD: Management of purple blotch disease in Onion
	Garlic	<ul style="list-style-type: none"> • Incidence of Root grub • Low yield • High purple blotch • Incidence of thrips 	1999 ha	FLD: IPDM in Garlic
	Fish farming	<ul style="list-style-type: none"> • Poor growth for existing common carp • Low yield due to early breeding 	-	FLD: Demonstration of Amur fish farming in Farm ponds
	Chilli	<ul style="list-style-type: none"> • Improper soil and nutrient management • Nutrient deficiencies (Zn, Fe) 	6880 ha	FLD: ICM in Chilli
	Garlic	<ul style="list-style-type: none"> • Low yield (5 t/ha) • Less no. of cloves/bulb (<14) • Purple blotch disease incidence (15-20 %) • Low bulb weight (< 7 gm) 	1999 ha	OFT: Assessment of Garlic varieties for high yield
	Banana	<ul style="list-style-type: none"> • Low yield (22t/ha), reduced bunch weight (10 Kg/bunch), poor filling of fingers, fruit cracking and micronutrient deficiency 	2263 ha	FLD: Bunch care technologies to maximize yield in banana
	Livestock	<ul style="list-style-type: none"> • High incidence of mastitis, low response to treatment • High antimicrobial resistance 	30 %	FLD: Demonstration on clean milk production

		<ul style="list-style-type: none"> • Loss of milk production • Decreased value of animal 		
	Ginger	<ul style="list-style-type: none"> • Low yield (28t/ha), poor crop growth, rhizome rot disease incidence (30-35%), reduced use efficiency of fertilizers and micronutrient deficiency 	947 ha	FLD: Demonstration of bio capsules and Ginger special for enhancing yield in Ginger
	Foxtail millet	<ul style="list-style-type: none"> • Low yield (8 q/ha), Poor management practice • Lack of awareness on new varieties 	500 ha	OFT: Assessment of Foxtail millet varieties for higher yield under rainfed situation
	Sunflower	<ul style="list-style-type: none"> • Lower yield • Susceptibly to Necrosis. • Non availability of Hybrids 	2369 ha	OFT: Assessment of sunflower Hybrids during late Kharif season
	Fodder crops	<ul style="list-style-type: none"> • Scarcity of green fodder (20%), Low milk yield and low quality milk 	-	FLD: Demonstration on improved varieties Fodder crops and fodder tree
Cluster E				
Choudadanapur				
	Maize	<ul style="list-style-type: none"> • Improper soil and nutrient management • Nutrient deficiencies (P, K, Zn, B) 	1,85,000 ha	FLD: Soil and nutrient Management in Maize
	Bt-Cotton	<ul style="list-style-type: none"> • Improper soil and nutrient management • Nutrient deficiencies (Mg, Zn, B), Leaf reddening, flower drop 	69947 ha	FLD: Nutrient Management through foliar application in Bt-Cotton
	Paddy	<ul style="list-style-type: none"> • Low yield (16-18 q/ac) • Lack of knowledge about Biofertilizer • Excess use of fertilizer • BPH infestation (30%) • Blast (35-40 %) 	46179 ha	FLD: Integrated crop management in transplanted Paddy
	Guava	<ul style="list-style-type: none"> • Incidence of Tea mosquito bug(35-40%), • low fruit yield and market price 	111 ha	OFT: Assessment of Management strategies for Tea Mosquito bug in Guava
	Livestock	<ul style="list-style-type: none"> • High incidence of mastitis, low response to treatment • High antimicrobial resistance • Loss of milk production Decreased value of animal 	30 %	FLD: Demonstration on clean milk production

5. Technology assessment during 2021-22

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
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5.1	Foxtail millet	<ul style="list-style-type: none"> • Low yield (10q/ha), Poor management practice Lack of awareness on new varieties 	Assessment of Foxtail millet varieties for higher yield under rainfed situation	TO ₁	Farmers' practice	-	-	-	-	03	1260/-	<ul style="list-style-type: none"> • Grain yield (q/ha) • Fodder yield (t/ha) • Economics (Rs) 	<ul style="list-style-type: none"> • Sr. Sci. & Head • Ag. Entomology
				TO ₂	DHFt-109-3	UAS, Dharwad	T 2-Seeds <i>Azospirillum</i>	3 kg/ac 500 g	150 60				
				TO ₃	H N-46	UAS, Raichur	T 3-Seeds <i>Azospirillum</i>	3 kg/ac 500 g	150 60				
								Total	420/-				
5.2	Maize	<ul style="list-style-type: none"> • Lack of drought resistant maize hybrids • Low yield (< 50q/ha) 	Assessment of Maize hybrids for higher yield	TO ₁	Farmers' practice	-	-	-	-	03	4800/-	<ul style="list-style-type: none"> • Number of cobs/plant, • Disease incidence (%) • Yield (q) and Economics (Rs) 	<ul style="list-style-type: none"> • Agronomy • Ag, Ento, • Soil Science • Animal Science • Sr. Sci. & Head
				TO ₂	RCRMH2	UAS, Raichur	T 2-Seeds	08 kg	800/-				
				TO ₃	GH-150125	UAS, Dharwad	T 3-Seeds	08 kg	800/-				
								Total	1600/-				
5.3	Sunflower	<ul style="list-style-type: none"> • Low yield (10-12 %) • Long duration (more than 110 days) • Low oil content 	Assessment of sunflower Hybrids for higher yield	TO ₁	Farmers practice	-	-	-	-	05	9000	<ul style="list-style-type: none"> • Head size (cm) • Yield (q/ha) • Pest & disease incidence (%) • Economics (Rs) 	<ul style="list-style-type: none"> • Sir Sci & Head • Ag. Ento
				TO ₂	RSFH-1887	UAS, Raichur	Seeds	02 kg	800				
							Bio fertilizer	200 g	100				
				TO ₃	KBSH-78	UAS Bengaluru	Seeds	02 kg	800				
							Bio fertilizer	200 g	100				
				Total	1800								
5.4	Black gram	<ul style="list-style-type: none"> • Low yield due to severe yellow mosaic virus disease • Use of local variety 	Performance of the Black gram varieties for higher yield	TO ₁	Farmers' practice (DU-1)	-	-	-	-	03	1980/-	<ul style="list-style-type: none"> • No. of Branches per plant, • Pods per plant • Grain yield (ha) • Disease Incidence (%) 	<ul style="list-style-type: none"> • Agronomy • Ag, Ento, • Soil Science • Sr. Sci. & Head
				TO ₂	DBGV – 5	UAS, Dharwad	DBGV – 5	3 kg	330				
				TO ₃	LBG 791	ARS, Lam, AP	LBG 791	3 kg	330				
								Total	660				
5.5	Garri	<ul style="list-style-type: none"> • Low yield 	Assessment of	TO ₁	Local	-				03	27,000/-	<ul style="list-style-type: none"> • Yield 	<ul style="list-style-type: none"> • Scienti

		(5 t/ha) <ul style="list-style-type: none"> • Less no. of cloves/bulb (<14) • Purple blotch disease incidence (15-20 %) • Low bulb weight (< 7 gm) 	Garlic varieties for higher yield	TO ₂	AAS-2	UHS, Bagalkot	AAS-2 garlic cloves	50 kg	4500			(Q/ha) <ul style="list-style-type: none"> • Bulb weight (gm) • Purple blotch disease (%) • Thrips incidence (%) • Days to harvest • Economics (Rs) 	st (Horticulture) <ul style="list-style-type: none"> • Scientist (Entomology) • Sr Sci & Head
				TO ₃	DWD-G1	UAS, Dharwad	DWD-G1 garlic cloves	50 kg	4500				
								Total	9000				
5.6	Mango	<ul style="list-style-type: none"> • Use of banned chemicals for mango fruits • artificial ripening • Low income • Poor consumer acceptance • Loss in fruit weight during ripening (10%) • Uneven ripening, fruits dessication 	Assessment of ripening methods in Mango (Var.Alphanso)	TO ₁	Spreading of fruits as layer over paddy straw for a week to ripen	Farmer practice	-	-	-	03	12200	<ul style="list-style-type: none"> • Fruit Weight loss (%), Ripening rate (Days), Overall consumer acceptance, Economics 	<ul style="list-style-type: none"> • Scientist (Horticulture) • Scientist (Entomology) • Sr Sci & Head
				TO ₂	Dipping of unripe mango fruits in 0.1% Ethrel solution and wipe it to dry	UHS, Bagalkot	-	-	-				
				TO ₃	In air tight rooms, unripe fruits exposed to Ethylene gas liberated by mixing Ethrel and sodium hydroxide	IIHR, Bangalore	Ethrel	1 lit	2100				
							Sodium hydroxide	500 gm	100				
							Air tight portable plastic tents (1 ton capacity)	02 no.	10000				
								Total	12200				
5.7	Guava	<ul style="list-style-type: none"> • Incidence of Tea mosquito bug(35-40%), • low fruit yield and market price 	Assessment of Management strategies for Tea Mosquito bug in Guava	TO ₁	Farmers' practice	-	-	-	-	03	4,500/-	<ul style="list-style-type: none"> • Fruit Yield (t/ha) • Fruit damage (%) Economics (Rs) 	<ul style="list-style-type: none"> • Ag. Ento • Agronomy • Soil Science • Sr Sci & Head
				TO ₂	Application of Cypermethrin @ 0.5 ml/L of water at fortnight interval (2-3 times) from flowering stage	UHS Bagalkote	Cypermethrin	500 ml	500/-				
				TO ₃	Application of Lambdacyhalothrin @ 0.5 ml/L of water + Pongamia	IIHR Bangalore	Lambdacyhalothrin	500 ml	500/-				
							Pongamia oil	5 L	500/-				

					oil 2% at fortnight interval (2-3 times) from flowering stage			Total	1500/-				
5.8	Maize	<ul style="list-style-type: none"> Excess urea top dressing in Maize No Soil Testing 	Assessment of Nano-Nitrogen application in Maize	TO ₁	Farmer Practice					03	4500/-	<ul style="list-style-type: none"> Cob length (cm), test weight (g), yield (ha) Economics (Rs) Initial nutrient status of soil 	<ul style="list-style-type: none"> Soil Science Ag, Ento, Agronomy Sr. Sci. & Head
				TO ₂	100 Kg N / ha	UAS Dharwad	Nano-N (4 ml / L)	500 mL x 2	500				
							Soil Testing	02	400				
								Total	900/-				
				TO ₃	Use of Nano nitrogen (Liquid 4 ml/liter, 500 ml per acre-2 sprays) along with soil application of 80 kg N / ha	IFFCO Ltd.							

6. Frontline demonstrations during 2021-22

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													
		Maize	<ul style="list-style-type: none"> Improper soil and nutrient management Nutrient deficiencies (P, K, Zn) 	Nutrient Management in Maize	-	-	UAS Dharwad	ZnSO4	4 kg	320	10	10000/-	<ul style="list-style-type: none"> Nutrient status of soil : Initial and after harvest Cob length (cm), test weight (g), and yield(ha) and Economics(Rs) 	<ul style="list-style-type: none"> Soil Science Ag, Ento, Agronomy Sr. Sci. & Head
							WS mixture 19:19:19	2 kg	280					
							Azospirillum	250 ml	200					
							PSB	250 ml	200					
								Total		1000/-				
		Greengram	<ul style="list-style-type: none"> Low yield, Improper nutrient management High shattering 	Integrated Crop Management in Green gram	DGGV-2	-	UAS Dharwad	Seeds (DGGV-2)	5 Kg	600	10	11000/-	<ul style="list-style-type: none"> Grain Yield (q/ha) Economics 	<ul style="list-style-type: none"> Sr. Sci. & Head Agronomy Ag. Ento.
							Trichoderma	50 gm	20					
							Rhizobium	200 gm	40					
							PSB	200 gm	40					
							Pulse Magic	2 Kg	400					
								Total		1100				
		Bengal gram	<ul style="list-style-type: none"> Low yield Improper nutrient management Wilting (15-20 %) 	Demonstration of Bengal gram Variety Jaki- 9218	Jaki-9218	-	UAS Dharwad	Seeds Jaki-9218	25kg	1650/-	10	19800	<ul style="list-style-type: none"> Plant height Number of pods/plant % disease occurrence Grain yield q/ha Initial nutrient status 	<ul style="list-style-type: none"> Soil Science Agronomy Ag. Entomology Sr. Sci & Head
							Rhizobium	0.25kg	40/-					
							PSB	0.25kg	40/-					
							Micronutrient Zn-EDTA	200 g	250/-					
								Total		1980				
		Paddy	<ul style="list-style-type: none"> Poor soil fertility Low yield (16-18 q/ac) Lack of knowledge 	Integrated crop management in transplanted Paddy	-	-	UAS Dharwad	Carbendazim	100 g	50	10	13900	<ul style="list-style-type: none"> No. of panicle / Plant Test weight (g) Pest and disease incidence (%) Grain yield (ha) 	<ul style="list-style-type: none"> Sr. Sci. & Head Agronomy Ag. Ento.
							Azospirillum	500 g	40					
							Thiomethaxam	100 g	300					
							Tricyclazole	500 g	1000					

			<ul style="list-style-type: none"> • e about Biofertilizer • Excess use of fertilizer • BPH infestation • Blast incidence 						Total	1390			<ul style="list-style-type: none"> • Economics (Rs) 	
		Rabi sorghum	<ul style="list-style-type: none"> • Low yield due to use of local variety • Lodging and poor fodder quality 	Demonstration of Rabi sorghum variety SPV-2217	SPV-2217	-	UAS Dharwad	Seeds <i>Trichoderma</i> <i>Azospirillum</i> ZnSO4 Soil analysis Total	3 kg 250 g 250 g 6 kg - 1760/-	210/- 30/- 30/- 760/- 400/- 1760/-	10	17600/-	<ul style="list-style-type: none"> • Plant height (cm) at harvest • Grain Yield (q/ha) • Economics (Rs) 	<ul style="list-style-type: none"> • Sr. Sci. & Head • Agronomy • Ag. Ento.
		Bt-Cotton	<ul style="list-style-type: none"> • Improper soil and nutrient management • Nutrient deficiencies (Mg, Zn., Leaf reddening, flower drop) 	Nutrient Management through foliar application in Bt-Cotton	-	-	UAS Dharwad	Zn-EDTA form Borosol KNO3 Total	375 / 100 g 275 / kg 140 / kg 1580	750 550 280 1580	10	15800	<ul style="list-style-type: none"> • No. of bolls per plant, • Pest and Diseases incidence (%) • yield (q/ha) and economics 	<ul style="list-style-type: none"> • Soil Science • Ag, Ento, • Agronomy • Sr. Sci. & Head
6.2	Millets	-	-	-	-	-	-	-	-	-	-	-	-	-
6.3	Oilseeds													
		Soybean	<ul style="list-style-type: none"> • Use of local variety • Lack of knowledge about Biofertilizer Poor nutrient management • Lack of 	Demonstration of soybean variety DSb-34	DSb-34	-	UAS Dharwad	DSb-21 <i>Trichoderma</i> PSB Rhizobium <i>Metarhizium rileyii</i> total	25.0 kg/ac 250 gm 250 gm 250 gm 1 kg 2535/-	1800/- 35/- 25/- 25/- 250/- 2535/-	05	12,675/-	<ul style="list-style-type: none"> • Yield (q/ha) • Rust incidence (%) • Economics (Rs) 	<ul style="list-style-type: none"> • Ag. Ento • Agronomy • Soil Sci • Sr. Sci. & Head

			knowledge pest and disease management											
		Groundnut	<ul style="list-style-type: none"> Use of local variety, Imbalanced nutrition Poor pest and disease management No seed treatment 	Integrated Crop Management in Groundnut	G2-52	-	UAS Dharwad	Pods Rhizobium PSB Trichoderma ZnSO4 FeSO4 Total	60 kg 200 g 200 g 200 g 10 kg 10 kg Total	4500/- 50/- 50/- 70/- 650/- 650/- 5970/-	05	29850/-	No. of pods/plant, Incidence of pest and disease, Yield and economics	<ul style="list-style-type: none"> Agronomy Ag. Ento Soil Sci Animal Sci. Sr. Sci. & Head
6.4	Pulses	-	-	-	-	-	-	-	-	-	-	-	-	-
6.5	Commercial crops													
		Sugarcane	<ul style="list-style-type: none"> Low yield (50 t/ha), Poor management practice Lack of awareness about new varieties Non availability dual purpose variety (sugar and Jaggery purpose) 	Demonstration of Sugarcane variety Co-9004	Co-9004	-	UAS, Dharwad	Sugarcane setts Gluconacetobacter ZnSO4 FeSO4 Total	1.5 t 2.0 l 10 kg 10 kg Total	4500/- 800/- 1000/- 1000/- 7300/-	05	36,500/-	<ul style="list-style-type: none"> Plant height (cm) Number of tillers per plant Incidence of pest and disease (%) Yield (t) and Economics (Rs) 	<ul style="list-style-type: none"> Agronomy Ag. Ento Soil Sci Animal Sci. Sr. Sci. & Head

6.6	Horticultural crops													
		Banana	<ul style="list-style-type: none"> • Low yield (22t/ha), • Reduced bunch weight (10 Kg/bunch), • Poor filling of fingers, fruit cracking and micronutrient deficiency 	Bunch care technologies to maximize yield in banana	-	-	IIHR, Bengaluru	Banana special Sulphate of potash Banana Bunch cover Total	6 kg 10 kg 250 no Total	960 1000 1050 3010/-	05	15050/-	<ul style="list-style-type: none"> • Days to harvest, Finger length and girth (cm), Weight of bunch (Kg), Yield (t/ha), B:C ratio 	<ul style="list-style-type: none"> • Scientist (Horticulture), • Scientist (Plant protection)
		Ginger	<ul style="list-style-type: none"> • Low yield (28t/ha) • Poor crop growth 	Demonstration of bio capsules and Ginger special for enhancing yield in	<i>Rio-de-Janeiro</i>	-	IISR, Calicut	PGPR Bio capsule Trichoderma Bio capsule Ginger special	08 No. 08 No. 02 kg	1200 1200 400	05	14000/-	<ul style="list-style-type: none"> • Plant height (cm), number of leaves per tiller, number of tillers per clump, yield (t/ha), incidence of rhizome rot 	<ul style="list-style-type: none"> • Scientist (Horticulture), • Scientist (Plant protection),

			<ul style="list-style-type: none"> • Rhizome rot disease incidence (30-35%), reduced use efficiency of fertilizers and micronutrient deficiency 	Ginger					Total	2800/-			(%), B:C ratio	<ul style="list-style-type: none"> • Scientist (Agronomy)
		Tomato	<ul style="list-style-type: none"> • Incidence of Pinworm (60-70%) • Low yield (30-35 t) 	Management of Pinworm in tomato	-	-	NBAIR, Bengaluru	Sticky trap Water pan traps Lures Neem insecticide Total	10 Nos 10 Nos 30 Nos 1 ltr 3400/-	500/- 700/- 1800/- 400/- 3400/-	05	17,000/-	<ul style="list-style-type: none"> • Fruit damage (%) • Fruit yield • Economics 	<ul style="list-style-type: none"> • Ag. Ento • Hort. • Soil Sci • Sr. Sci. & Head
		Onion	<ul style="list-style-type: none"> • Incidence of Purple blotch disease (35-40%) • Low yield 	Management of purple blotch disease in onion	Ballary red	-	UAS Dharwad	Psuedomonas Traichoderma Difenconazole 25 EC Boran Total	2 kg 1 kg 1 L 1 kg 3480/-	300/- 130/- 2500/- 550/- 3480/-	05	17,400/-	<ul style="list-style-type: none"> • Yield (t/ha) • Disease severity • Economics 	<ul style="list-style-type: none"> • Ag. Ento • Hort. • Soil Sci • Sr. Sci. & Head
		Chilli	<ul style="list-style-type: none"> • Improper soil and nutrient management • Nutrient 	Nutrient Management in Chilli	-	-	UAS Dharwad	ZnSO4 FeSO4 WS mixture 19:19:19 Solubor KNO3	10 kg 10 kg 2 kg 2 kg 2 kg	650 750 280 220 240	10	21400/-	<ul style="list-style-type: none"> • Nutrient status of Soil : Initial and after harvest • No. of fruits / plant, Pest and 	<ul style="list-style-type: none"> • Soil Science • Ag, Ento, • Horticulture

			deficiencies (P, K, Zn, Fe and B)					Total	2140/-				Disease incidence (%), Yield (q/ha) and Economics (Rs)	• Sr. Sci. & Head
		Mango	<ul style="list-style-type: none"> • Incidence of leaf hopper (25-30%) and powdery mildew 15-20% and fruit fly (25-30%) • low fruit yield (15-20%) 	Integrated Crop management in Mango	-	-	IIHR Bangalore	Hexaconazole, Mango special Thiamethoxam 25 % WG Planofix 4.5 % (w/w) Fruit fly traps Total	1 L 8 kg 500 g 200 ml 15 no 5100/-	450/- 1200/- 1000/- 200/- 2250/-	05	25,500/-	<ul style="list-style-type: none"> • No of fruits / plant • Leaf hopper and fruitfly incidence (%) • Powdery mildew incidence(%) • Fruit yield(q/ha) • Economics (Rs) 	<ul style="list-style-type: none"> • Ag. Ento • Hort. • Soil Sci Sr. Sci. & Head
6.7	Livestock													
		Fodder crops	Scarcity of green fodder Low milk yield and poor quality milk	Demonstration of mixed perennial fodder crops	-	-	TNAU	Multicut Sorghum (COFS-31) seeds Hedge Lucerne seeds Sesbania grandiflora seeds Total	1.5 kg 2 kg 250 g 3000/-	1200 1600 200	05	15,000/-	<ul style="list-style-type: none"> • Fodder Yield (t/ha), Milk yield (lit/lac) and Economics 	<ul style="list-style-type: none"> • Scientist (Animal Science) • Scientist (Agronomy) • Sr Sci & Head
		Milk production	<ul style="list-style-type: none"> • High incidence of mastitis • High antimicrobial resistance 	Demonstration of clean milk production	-	-	KVAFS U, Bidar	CMT kit Teat dipping solution Dip cups Tri-Sodium Citrate	1 No. 1000 ml 1 No. 200g	600 600 300 400	10	25000/-	<ul style="list-style-type: none"> • Incidence of subclinical and clinical mastitis (%) • SNF and Fat (%) • Milk production (Lit/Lactation) • Economics (Rs) 	<ul style="list-style-type: none"> • Scientist (Ani Sci) • Sr. Sci. & Head

			<ul style="list-style-type: none"> • Reduced milk production • Mastitis incidence : 35% 					Intra-mammary infusion	4 Nos	600				
									Total	2500/-				
6.8	Fisheries	Farm ponds	<ul style="list-style-type: none"> • Poor growth for existing common carp • Low yield due to early breeding 	Demonstration of Amur fish farming in Farm ponds	-	-	KVAFS U, Bidar	Catla	600 no	600	05	31500/-	<ul style="list-style-type: none"> • Yield (Kg/ha) • Body weight (g) • length (cm) • Economics 	<ul style="list-style-type: none"> • Scientist (Ani Sci) • Sr. Sci. & Head
								Rohu	300 no	300				
								Amur carp	600 no	2400				
								Floating Feed	80kg	3000				
								Total		6300/-				
6.9	Others	Nutrition garden						Vegetable seed Kit	01	100	25	17875/-	<ul style="list-style-type: none"> • Quantity of vegetables • Produced (kg) • Economics 	<ul style="list-style-type: none"> • Horticulture, • SS&AC • Agronomy, • Sr. Scientist & Head
								Curry leaf plant	02	40				
								Drumstick seedlings	02	20				
								Lime seedlings	01	20				
								Sapota plant	01	50				
								<i>Trichoderma</i>	500 gram	65				
								Neem Oil	500 ml	400				
								Total		715/-				

7. Training for farmers/ farm women during 2021-22

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	Millet	FLD	Millet production technology	01	30	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Soil scientist • Sr Sci & Head
		Maize	FLD	ICM in maize	02	60	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Soil scientist • Sr Sci & Head
		Green gram	OFT	ICM in Greengram	01	30	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Soil scientist • Sr Sci & Head
		Redgram	FLD	ICM in Redgram	02	60	<ul style="list-style-type: none"> • Sr Sci & Head • Agronomy • Ag. Ento • Soil scientist
		Groundnut	FLD	ICM in Ground nut	02	60	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Soil scientist • Sr Sci & Head
		Soybean	FLD	ICM in Soybean	02	60	<ul style="list-style-type: none"> • Ag. Ento • Agronomy • Soil scientist • Sr Sci & Head
		Sugarcane	FLD	ICM in Sugarcane	02	60	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Soil scientist • Sr Sci & Head
7.2	Horticulture production	ICM in Ginger	FLD	Integrated crop management in Ginger	02	60	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head

		ICM in Banana	FLD	Integrated crop management in banana	02	60	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head
		IPDM in Garlic	-	Plant protection in Garlic	02	60	<ul style="list-style-type: none"> • Prog. Asst. • Ag. Ento • Horticulture • Soil scientist • Sr Sci & Head
		Onion	FLD	Plant protection in onion	02	60	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Soil scientist • Sr Sci & Head
		Tomato	FLD	Plant protection in Tomato	02	60	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Soil scientist • Sr Sci & Head
7.3	Livestock production	Poultry	FLD	Backyard poultry rearing	1	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
		Fodder	FLD	Fodder crops and fodder trees	1	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
		Dairy animals	FLD	Clean milk production	1	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
7.4	Horticulture production	-	-	-	-	-	-
		Mango	OFT	Post harvest management in Mango	01	30	<ul style="list-style-type: none"> • Scientist Horticulture • Ag. Ento • Soil scientist • Sr Sci & Head
7.5	Plant protection	Guava	OFT	Pest and disease management in Guava	02	60	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Agronomy • Soil scientist • Sr Sci & Head
		Chilli	-	Management of Leaf curl	01	30	<ul style="list-style-type: none"> • Ag. Ento

				complex			<ul style="list-style-type: none"> • Scientist Horticulture • Agronomy • Soil scientist • Sr Sci & Head
		Cotton	-	IPM in Cotton	01	30	<ul style="list-style-type: none"> • Ag. Ento • Agronomy • Soil scientist • Sr Sci & Head
		Maize	-	IPM in Maize	01	30	<ul style="list-style-type: none"> • Ag. Ento • Agronomy • Soil scientist • Sr Sci & Head
7.6	Production of inputs at site	-	-	-	-	-	-
7.7	Soil health and fertility	Maize	FLD	ICM in Maize	02	60	<ul style="list-style-type: none"> • Soil Scientist • Ag. Ento • Agronomy • Animal Science • Sr Sci & Head
		Bengalgram	FLD	ICM in Bengalgram	03	90	<ul style="list-style-type: none"> • Soil Scientist • Ag. Ento • Agronomy • Sr Sci & Head
		Banana	FLD	Nutrient management	01	30	<ul style="list-style-type: none"> • Soil Scientist • Ag. Ento • Horticulture • Agronomy • Sr Sci & Head
		Chilli	OFT	Nutrient management	01	30	<ul style="list-style-type: none"> • Soil Scientist • Ag. Ento • Horticulture • Agronomy • Sr Sci & Head
		Cabbage	OFT	Organic management of nutrients	02	60	<ul style="list-style-type: none"> • Soil Scientist • Ag. Ento • Horticulture • Agronomy • Sr Sci & Head
		Fertilizers	-	Fertilizer application awareness	02	60	<ul style="list-style-type: none"> • Soil Scientist

				to farmers			<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Agronomy • Animal Scientist • Sr Sci & Head
		Climate	-	Suitability of Crops to changed climatic situations	02	60	<ul style="list-style-type: none"> • Soil Scientist • Ag. Ento • Horticulture • Agronomy • Animal Scientist • Sr Sci & Head
7.8	PHT and value addition	-	-	-	-	-	-
7.9	Capacity building/ group dynamics	Propagation techniques in horticulture crops	-	Fruit crops	01	30	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head
7.10	Farm mechanization	-	-	-	-	-	-
7.11	Fisheries production technologies	Fish Production	FLD	Composite Fish Farming	01	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
7.12	Mushroom production	-	-	-	-	-	-
7.13	Agro forestry	-	-	-	-	-	-
7.14	Bee keeping	Bee keeping	-	Bee keeping	01	30	<ul style="list-style-type: none"> • Ag. Ento • Harticulture • Agronomy • Prog. Asst. • Sr Sci & Head
7.15	Sericulture	-	-	-	-	-	-
7.16	Others, pl. specify	Nutri garden	FLD	Nutri garden	02	60	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head

8. Training for rural youth during 2021-22

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	Seed production	Skill development	Seed production technology in field crops and vegetable crops	01	30	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Ag. Ento • Agronomy • Sr Sci & Head
8.2	Horticulture production	Vegetable	Skill development	Crossing techniques in vegetables	01	30	<ul style="list-style-type: none"> • Horticulture • Agronomy • Sr Sci & Head
		Nursery	Skill development	Nursery management	01	30	<ul style="list-style-type: none"> • Horticulture • Sr Sci & Head
8.3	Livestock production	Sheep and goat	Skill development	Scientific sheep and goats farming	01	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
		Dairy farming	Skill development	Scientific dairy farming	01	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
		Backyard Poultry	Skill development	Role of backyard poultry in enhancing the food and nutrition security.	01	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
8.4	Home Science	-	-	-	-	-	-
8.5	Plant protection	-	-	-	-	-	-
		Nursery	Skill development	Soil and Nutrient management in nursery of forest plants	02	60	<ul style="list-style-type: none"> • Soil Science • Horticulture • Agronomy • Sr Sci & Head
8.6	Production of inputs at site	Seed production	Skill development	Seed production technology in field crops and vegetable crops	01	30	<ul style="list-style-type: none"> • Horticulture • Soil Science • Ag. Ento • Agronomy • Sr Sci & Head
		Vermicomposting	Skill development	Vermicomposting Technology	01	30	<ul style="list-style-type: none"> • Agronomy • Ag. Entomology • Horticulture

							<ul style="list-style-type: none"> • Soil Science • Sr Sci & Head
8.7	Soil health and fertility	Organic farming	Skill development	Organic farming	01	30	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Soil scientist • Sr Sci & Head
		Soil testing	Soil sampling	Soil testing	04	80	<ul style="list-style-type: none"> • Soil Science • Agronomy • Horticulture • Sr Sci & Head
8.8	PHT and value addition	-	-	-	-	-	-
8.9	Capacity building/ group dynamics	Vermicompost	Skill development	Production of Vermicompost	01	30	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Agronomy • Soil scientist • Sr Sci & Head
		Seed production	Skill development	Seed production technology in field crops and vegetable crops	01	30	<ul style="list-style-type: none"> • Soil scientist • Ag. Ento • Horticulture • Agronomy • Sr Sci & Head
8.10	Farm mechanization	Millets	FLD	PHT and value addition	02	60	<ul style="list-style-type: none"> • Agronomy • Soil Scientist • Ag. Ento • Sr Sci & Head
8.11	Fisheries production technologies	Fisheries	Skill development	Composite Fish cultivation	01	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
8.12	Mushroom production	Production technologies of Mushroom	Skill development	Mushroom	01	30	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head
8.13	Agro forestry	Vermicompost	EDP	Organic farming	01	30	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Soil scientist • Sr Sci & Head
		Sheep and goat	Skill development	Health and Disease management in sheep and goats	01	30	<ul style="list-style-type: none"> • Animal Scientist and All other scientist

							•
8.14	Bee keeping	Bee Keeping	Skill development	Apiculture	01	30	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Agronomy • Soil scientist • Sr Sci & Head
8.15	Sericulture	Mulberry	-	IPM in Mulberry	02	60	<ul style="list-style-type: none"> • Prog. Asst. • Ag. Ento • Soil Scientist • Agronomy • Sr Sci & Head
8.16	Others, pl. specify	Millets	FLD	PHT and value addition	02	60	<ul style="list-style-type: none"> • Agronomy • Soil Scientist • Ag. Ento • Sr Sci & Head

9. Training for extension personnel during 2021-22

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	ICM in <i>Kharif</i> crops	01	30	<ul style="list-style-type: none"> • Ag. Entomology • Agronomy • Horticulture • Soil Science • Sr Sci & Head
		ICM in <i>Rabi</i> crops	01	30	<ul style="list-style-type: none"> • Agronomy • Ag. Entomology • Horticulture • Soil scientist • Sr Sci & Head
		Soil fertility assessment and nutrients management	03	90	<ul style="list-style-type: none"> • Soil Science • Ag. Ento • Horticulture • Agronomy • Sr Sci & Head
		Millets	02	60	<ul style="list-style-type: none"> • Soil Science

					<ul style="list-style-type: none"> • Agronomy • Sr Sci & Head
		Fertilizer application awareness	02	100	<ul style="list-style-type: none"> • Soil Science • Agronomy • Ag. Ento • Horticulture • Sr Sci & Head
		Soil testing	02	50	<ul style="list-style-type: none"> • Soil Science • Agronomy • Horticulture • Sr Sci & Head
9.2	Home Science	-	-	-	-
		Kitchen and terrace garden	02	40	<ul style="list-style-type: none"> • Horticulture • Soil Science • Agronomy • Ag. Ento • Sr Sci & Head
9.3	Capacity building and group dynamics	Improved cultivation practices in <i>kharif</i> crops	01	30	<ul style="list-style-type: none"> • Agronomy • Ag. Entomology • Horticulture • Soil scientist • Sr Sci & Head -
		IPM in different crops	01	30	<ul style="list-style-type: none"> • Ag. Entomology • Agronomy • Horticulture • Soil scientist • Sr Sci & Head
9.4	Horticulture	Recent advances in Horticulture crop production	01	30	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Sr Sci & Head
9.5	Livestock production and management	New emerging diseases – preparedness and control	01	30	<ul style="list-style-type: none"> • Animal Scientist and • All other scientist
9.6	Plant protection	Plant protection in <i>Kharif</i> crops	01	30	<ul style="list-style-type: none"> • Ag. Entomology • Agronomy • Horticulture • Soil scientist • Sr Sci & Head
		ICM in <i>Kharif</i> crops	01	30	<ul style="list-style-type: none"> • Ag. Entomology

					<ul style="list-style-type: none"> • Agronomy • Horticulture • Soil scientist • Sr Sci & Head
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	Bamboo production technology	01	30	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Sr Sci & Head
		To upgrading ICT platform in agriculture	01	30	<ul style="list-style-type: none"> • Technical Officer (Computer) • All Scientists

10. Vocational trainings during 2021-22

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	Vermicomposting	04	01	100	-	<ul style="list-style-type: none"> • Soil Science • Ag. Ento • Horticulture • Agronomy • Animal Sciences • Sr Sci & Head
		Bee – Keeping	02	01	50	-	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Agronomy • Soil Science • Animal Sciences • Sr Sci & Head
10.2	Home Science	-	-	-	-	-	-
10.3	Capacity building and group Dynamics	Strengthening of FPO Activities by integrated approach	04	01	100	-	<ul style="list-style-type: none"> • Soil Science • Ag. Ento • Horticulture • Agronomy

							<ul style="list-style-type: none"> • Animal Sciences • Sr Sci & Head
10.4	Horticulture	Protected cultivation in vegetable crops	02	01	40	Dept. of Horti.	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head
		Post harvest management in Mango	02	01	40	NABARD.	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head
10.5	Livestock production and management	Modern Dairy Farming	01	01	30	-	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
		Sheep and goat feeding and Health management	01	01	30	-	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
10.6	Plant protection	Pest management in horticulture crops	01	01	30	-	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Soil scientist • Agronomy • Sr Sci & Head
10.7	Farm mechanization	-	-	-	-	-	-
10.8	PHT and value addition	Processing and value addition in Horticulture crops	02 (3 days duration)	Students & youth	60	-	<ul style="list-style-type: none"> • Horticulture • Sr Sci & Head
10.9	Production of inputs at site	-	-	-	-	-	-
10.10	Sericulture	-	-	-	-	-	-
10.11	Fisheries	Fishery farming	01	01	30	-	<ul style="list-style-type: none"> • Animal Scientist and All other scientist
10.14	Other, pl. specify	-	-	-	-	-	-
	ICT in agriculture	Hands on training to upgrading the knowledge of ICT in agriculture	2	2	100	-	<ul style="list-style-type: none"> • Technical Officer (Computer) • All Scientists

11. Sponsored trainings during 2021-22

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	Production technologies in <i>kharif & Rabi</i> crops	02	01	60	KSDA	<ul style="list-style-type: none"> • Agronomy • Ag. Ento • Horticulture • Soil scientist • Sr Sci & Head
		Importance of Soil fertility and soil testing	02	01	60	KSDA	<ul style="list-style-type: none"> • Soil scientist • Agronomy • Horticulture • Sr Sci & Head
11.2	Home Science	-	-	-	-	-	-
11.3	Capacity building and group Dynamics	-	-	-	-	-	-
11.4	Horticulture	Kitchen and terrace garden	02	02	30	DOH	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head
		ICM in Mango	02	03	40	DOH	<ul style="list-style-type: none"> • Horticulture • Soil scientist • Agronomy • Ag. Ento • Sr Sci & Head
11.5	Livestock production and management	Modern dairying and clean milk production	01	01	30	KMF/ATMA	<ul style="list-style-type: none"> • Animal Scientist and Sr S and Head
11.6	Plant protection	Pest and disease management in different field crops	01	01	30	KSDA	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Agronomy • Soil scientist
		Pest and disease management in different Horticulture crops	01	01	30	DOH	<ul style="list-style-type: none"> • Ag. Ento • Horticulture • Agronomy • Soil scientist

							• Sr Sci & Head
11.7	Farm mechanization	-	-	-	-	-	-
11.8	PHT and value addition	-	-	-	-	-	-
11.9	Production of inputs at site	-	-	-	-	-	-
11.10	Sericulture	-	-	-	-	-	-
11.11	Fisheries	Composite fish farming	01	01	30	DOF / ATMA	• Animal Scientist and Sr S and Head
11.12	Others, pl. specify	-	-	-	-	-	-

12. Extension activities during 2021-22

Sl.No.	Extension activity	No. of activities	Targeted number of participants	Names of the team members involved
12.1	Advisory services	600	3500	KVK Team
12.2	Diagnostic visits	25	250	KVK Team
12.3	Field days	15	500	KVK Team
12.4	Group discussions	15	200	KVK Team
12.5	Kisan goathies	01	50	KVK Team
12.6	Film shows	06	300	KVK Team
12.7	Self -Help Groups (SHGs) meetings	02	60	KVK Team
12.8	Kisan Melas	01	60	KVK Team
12.9	Exhibitions	03	600	KVK Team
12.10	Scientists' visit to farmers fields	75	250	KVK Team
12.11	Plant/soil health/animal health camps	05	150	KVK Team
12.12	Farm science club meetings	-	-	-
12.13	Ex-trainees sammelans (Meetings)	01	30	KVK Team
12.14	Farmers' seminars/workshops	01	50	KVK Team
12.15	Method demonstrations	10	200	KVK Team
12.16	Celebration of important days	08	300	KVK Team
12.17	Special day celebrations	02	200	KVK Team
12.18	Exposure visits	01	25	KVK Team

12.19	Technology week celebration	01	200	KVK Team
12.20	Farmers Field School (FFS)	-	-	-
12.21	Farm innovators meet	-	-	-
12.22	Awareness programmes	05	150	KVK Team
12.23	Pre-kharif campaign	03	150	KVK Team
12.24	Pre-rabi/summer campaign	02	100	KVK Team
12.25	Others, pl. specify	-	-	-

13. Activities proposed as knowledge and resource centre during 2021-22

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	Millet crop cafeteria	1.0	-	• Tech Officer (Farm) & Senior Scientist & Head
		Fodder crop(grasses) cafeteria	1.0	-	• Tech Officer (Farm) & Senior Scientist & Head
		Sapota garden	2.0	-	• Horticulture, Tech Officer (Farm), Sr. Scientist
		Multiple cropping system (Sapota+Millets+Fodder crops)	2.0	-	• Tech Officer (Farm) & Senior Scientist & Head
		Drumstick unit (PKM-1)	0.5	-	• Tech Officer (Farm) & Senior Scientist & Head
		Horticulture Nursery Unit	0.20	-	• Horticulturist , Tech Officer (Farm) & Senior Scientist & Head
		Horticulture mother plant orchard	1.0	-	• Horticulturist , Tech Officer (Farm) & Senior Scientist & Head
13.1.2	Demonstration units	Azolla unit	-	01	• Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
		Dairy unit	-	01	• Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
		Poultry rearing unit	-	01	• Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
		Apiculture	-	01	• Entomologist , Tech Officer (Farm) & Senior Scientist & Head

		Sheep rearing unit	-	20 No's	• Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
13.1.3	Lab analytical services	-	-	-	-
13.1.4	Technology week	IFS, ICM, Organic Farming	-	01	KVK Team
		Soil and water conservation	-		
		Plant protection	-		
		Bio control agents	-		
		Processing and value addition	-		
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 2021-22 (q)	Number planned to be produced during 2021-22	Names of the team members involved
13.2.1	Seeds	Seed Unit UAS, Dharwad	Foxtail millet (Dhft-109- 3)	20	-	Tech Officer (Farm) & Senior Scientist & Head
			Little millet (Dhlm-36-3)	10	-	Tech Officer (Farm) & Senior Scientist & Head
			Proso millet (DHPM-2769)	05	-	Tech Officer (Farm) & Senior Scientist & Head
			Barnyard millet (DHBM-93-2)	20	-	Tech Officer (Farm) & Senior Scientist & Head
			Finger millet (DHFM-78-3)	05	-	Tech Officer (Farm) & Senior Scientist & Head
			Redgram (BSMR-736)	25	-	Tech Officer (Farm) & Senior Scientist & Head
			CoFS-31	1.0	-	Tech Officer (Farm),

						scientist (Vet) & Senior Scientist & Head
			Castor (GC-3)	05	-	Tech Officer (Farm) & Senior Scientist & Head
			Sun hemp (Local)	25	-	Tech Officer (Farm) & Senior Scientist & Head
			Horsgram (GPM-6)	05	-	Tech Officer (Farm) & Senior Scientist & Head
			Rabi Sorghum (SPV-2217)	15	-	Tech Officer (Farm) & Senior Scientist & Head
13.2.2	Planting material		Drumstick	-	10000	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
			Sapota (DHS-1)	-	500	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
			Sapota (DHS-2)	-	500	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
			Curry leaf (Suvasini)	-	2000	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
			Tamarind (DTS-1)	-	1000	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
			Lime (Kazgi)	-	1000	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
			Guava (L-49)	-	1000	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
13.2.3	Bio-products	UAS Dharwad	Trichoderma	10 qtl	-	Entomologist , Prog. Asst & Senior Scientist & Head
				PSB	4.0	-
13.2.4	Livestock strains					

			Calf-HFCB	-	06	Animal Scientist
			Lamb-Deccani	-	06	Animal Scientist
13.2.5	Fish fingerlings	-	-	-	-	-
13.2.6	Any other, pl specify		Vermicompost		25	Tech Officer (Farm) and Senior Scientist & Head

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		
	b. Horticulture	Vegetable crop management (02)	Scientist (Horticulture)
	c. Animal Husbandry	Disease management (02)	Scientist (Animal Scientist)
	d. Fisheries	-	-
	e. Agricultural Engineering	-	-
	f. Sericulture	-	-
	g. Others, pl. specify	-	-
13.3.2	Literature/publication	03	Scientist (Animal Scientist)
13.3.3	Electronic media	<ul style="list-style-type: none"> ▪ Design and development of KVK website ▪ Database for KVK activities ▪ Documentation of daily routine activities in KVK Portal, KVK Website and Social Media (Facebook, WhatsApp) ▪ Updating the MPR, AE MPR and daily events ▪ Organise online training programme ▪ Demonstration and popularization of agril websites and mobile apps to farmers 	<ul style="list-style-type: none"> • Technical Officer (Computer) • All Scientists
13.3.4	Kisan mobile advisory services	40 massages to 39000 farmers	<ul style="list-style-type: none"> • Technical Officer (Computer) • All Scientists
13.3.5	Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies).	KAPC (DFI)	All scientist
		KSDH (FPO)	All scientist
		KSDA	All scientist
		NABARD	All scientist

14. Additional activities planned during 2021-22

Sl.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	DFI	DFI in Choudadanapur Village	Recommended practices for cultivation of field crops and vegetable crops and animal health management	1,00,000/-	KVK team
2	Paramparagatha Krishi Vikasa Yojane (PKVY)	Organic management practices	Green manuring, Jeevamrutha application, Vermicompost application, Beejamrutha treatment, Land convection into organic	3,00,000/-	KVK team
3	Cashew				

15. Revolving fund

15.1 Financial status of revolving fund

Opening balance as on 01.04.2020 (Rs.in Lakh)	Expenditure incurred during 2020-21 (Rs.in Lakh) Upto 31.01.2021	Receipts during 2020-21 (Rs.in Lakh)	Closing balance as on 31.01.2021 (Rs.in Lakh)	Expected closing balance by 31.03.2021 (Including value of material in stock/ likely to be produced)
6.23	13.32	12.20	7.37	

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	Dairy (Milk production)	15,000 (Liter)	4,50,000/-	Scientist Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
15.2.2	Sheep Lamb production	08	50,000/-	Scientist Animal Scientist, Tech Officer (Farm) & Senior Scientist & Head
15.2.3	Seeds production (q)	100	4,50,000/-	Tech Officer (Farm) & Senior Scientist & Head
15.2.4	Production of planting materials (Nos.)	16000 (No)	3,00,000/-	Scientist (Horticulture), Tech Officer (Farm) & Senior Scientist & Head
15.2.5	Production of Vermicompost (q)	50	30000/-	Tech Officer (Farm) & Senior Scientist & Head
15.2.6	Trichoderma (q)	15	1,50,000/-	Scientist (Entomology) , Prog. Asst & Senior Scientist &

				Head
15.2.7	Soil and Water (No.s)	4000	3,50,000/-	Scientist (Soil Science), Prog. Asst & Senior Scientist & Head
		Total	17,80,000/-	

16. Activities of soil, water and plant testing laboratory during 2021-22

Sl.No.	Type of samples	No.of samples to be analyzed	Names of the team members involved
16.1	Soil test using analytical lab	2500	Soil scientist , Programme assistant (Lab), Senior scientist and head
16.2	Soil test using mobile analysis kit	-	-
16.3	Water	1500	Soil scientist , Programme assistant (Lab), Senior scientist and head
16.4	Plant	-	Soil scientist , Programme assistant (Lab), Senior scientist and head
16.5	Others, pl. specify		

17. E-linkage during 2021-22

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		
	• Training database	Going on	-
	• Seeds & planting material	Going on	-
	• Soil & water test database	Going on	-
	• FLD	Going on	-
	• Milk sold	Going on	-
	• Farmers Visit KVK	Going on	-
	• OFT	Going on	-
	• Extension activities	Going on	-
	• Publication (Retrench Paper, Abstract, Popular article, Folder etc.,)	Going on	-
	• ICAR revolving fund	Going on	-
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
18.1	Maintenance of fodder demonstration bank	Napier gross, perennial fodder crops
18.2	Maintenance of Nursery garden for multiplication of Horticultural plants	Sapota, tamarind, Curry leaf, Sugarcane, Guava

18.3	Training cum demonstration on Rainwater harvesting and its utilization	-
18.4	Maintenance of Nutrition garden	-

19. Farmers Field School (FFS) planned

Thematic area	Title of the FFS	Budget proposed in Rs.
ICM	Improved production Technologies for Mango	30000
ICM	Intigrated Crop Managment in Bt Cotton	30000

20. Integrated Farming System(IFS) planned

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

21.Details of budget utilization (2020-21) upto 31st March 2021

(Rs.)				
Sl.No.	Particulars	Sanctioned	Released	Expenditure
21.1	(A). REVENUE (Recurring Contingencies)			
21.1.1	Pay & Allowances	18426000	18426000	16210865
21.1.2	Traveling allowances	150000	150000	118694
21.1.3	Contingencies	0	0	0
21.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	250000	250000	249697
21.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	240000	240000	239439
21.1.3.c	<i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i>	90000	90000	88450
21.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	68000	68000	67252
21.1.3.e	<i>Frontline demonstrations</i>	275000	275000	274370
21.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	72000	72000	71973
21.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0	0	0
21.1.3.h	<i>Training of extension functionaries</i>	25000	25000	23900
21.1.3.i	<i>Extension activities/services</i>	60000	60000	58291
21.1.3.j	<i>Farmers' Field School</i>	0	0	0
21.1.3.k	<i>Nutrigarden</i>	25000	25000	24925
21.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	25000	25000	24854
21.1.3.m	<i>Maintenance of building</i>	50000	50000	50000
21.1.3.n	<i>Farmers Conclave, KVK Conference</i>	0	0	0
21.1.3.o	<i>Video production</i>	0	0	0
21.1.3.p	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>	20000	20000	12800
	Total Recurring	19776000	19776000	17515510
21.2	(B). CAPITAL (Non-Recurring Contingencies)			
21.2.1	Equipments & Furniture	243000	243000	241714
21.2.2	Works	0	0	0
21.2.3	Vehicle	0	0	0
21.2.3 a	Four wheeler (replacement)	0	0	0
21.2.4	Library	0	0	0
	Total Non Recurring	243000	243000	241714
21.3	(C). REVOLVING FUND	0	0	0
	GRAND TOTAL (A+B+C)	20019000	20019000	17757224

22.Details of Budget Estimate based on proposed action plan(2021-22)

Sl.No.	Particulars	BE 2021-22 proposed (Rs. In lakhs)
22.1	(A). REVENUE (Recurring Contingencies)	
21.1.1	Pay & Allowances	156.00
22.1.2	Traveling allowances	3.00
22.1.3	Contingencies	18.75
22.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	2.75
22.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	2.00
22.1.3.c	<i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i>	1.25
22.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	1.50
22.1.3.e	<i>Frontline demonstrations</i>	4.00
22.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	1.25
22.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	-
22.1.3.h	<i>Training of extension functionaries</i>	0.50
22.1.3.i	<i>Extension activities/services</i>	0.75
22.1.3.j	<i>Farmers' Field School</i>	0.30
22.1.3.k	<i>EDP (2 Nos.) / innovative activities</i>	0.30
22.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	0.35
22.1.3.m	<i>Maintenance of building</i>	3.00
	<i>Nutrigardens – 30 demonstrations</i>	0.25
	<i>Video Production</i>	0.25
22.1.3.n	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>	0.20
22.1.3.o	<i>Others, pl. specify</i>	0.20
	Total Recurring (A)	177.75
22.2	(B). CAPITAL (Non-Recurring Contingencies)	
22.2.1	Equipments & Furniture	5.00
22.2.2	Works	10.00
22.2.3	Vehicle	-
22.2.3.a	Four wheeler (replacement)	-
22.2.4	Library	-
	Total Non Recurring (B)	15.00
	Grand Total (A + B)	192.75