

ICAR-ATARI, ZONE –XI, BENGALURU

PROFORMA FOR ACTION PLAN OF KVKs IN ATARI,ZONEXI 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 – KrishiVigyan Kendra, Vijayapura II (Indi), Station road, Indi Phone : 08359-225666 Fax : 08359-225666 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 : deusd@redifmail.com
1.3	Year of sanction	:	2016 (28th September)
1.4	Website address of KVK and date of last update	:	www.indikvk.org 15.01.2021

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. R. B. Negalur	Agronomy	131400-2,11,500	Level 13A	18-08-2017	
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	Dr. Ravi, Y.	Home Science	57700-92500	Level 10	24-07-2017	
2.6	Subject Matter Specialist	Dr. SyedaSaminaAnjum	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	ProgrammeAssistant (Computer	Mr. Majeed G	MCA	44900-142400	Level 07	24-07-2019	

	Programmer)					
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	Mr. Chandrakant D	SSLC	21400-42000		
2.15	Supporting staff 1	Mr. ShivappaSharanappaBagali	6 th Class	17000-28950		04-09-2017
2.16	Supporting staff 2	Vacant				

3. Details of SAC meeting conducted during 2020-21

Date	Major recommendations	Suggestion given by	Action taken
12.11.2020	It is suggested to start soil and water testing laboratory at KVK, Indi	Sri. MalasiddappaGuoddadogi Post: Hirebevanoor, Tq: Indi	
	It is suggested to take up production of bio fertilizer at KVK Indi	Smt. Mallamma Shettappa Navi Post: InchigeriTq: Indi	
	It is suggested to make the availability of different vegetable seeds from IIHR, Bengaluru on demand of farmers	Sri. Ambresh Post: Golageri Tq: Sindagi	
	It is suggested to fill up the vacant posts at KVK, Indi	Sri. Sanjeev Bhairshetti Post: Indi Progressive farmer	
	It is suggested to arrange more number of training on bio digester, Biogas and Vermicompost production at KVK, Indi	Sri. S. T. Patil Post: Naad (K.D.), Organic farmer	
	It is suggested to start grape leaf and stem testing laboratory at KVK, Indi	Sri. S.N. Biradar Progressive farmer, Post: KoralliTq: Sindagi	
	The problem like wilt/dry root rot disease are affecting redgram TS-3R crop. Hence, it is suggested to introduce new variety of redgram resistant to wilt/dry root rot disease.	Dr. Rajashekar Williams Joint Director of Agriculture, KSDA, Vijayapura District	
	It is suggested to produce pulse magic locally or make arrangement of its availability to farmers	Dr. Rajashekar Williams Joint Director of Agriculture, KSDA, Vijayapura District	
	Home Scientist of KVK, Indi is suggested to get the training at IIHR, Bengaluru on lime	Dr. M. B. Chetti Hon'ble Vice Chancellor, UAS, Dharwad	

	value addition, grading and processing. After attending the training programme it is advised to arrange training on these aspects for more number of farmers.		
	It is suggested to purchase equipments required to start soil and water testing laboratory at KVK, Indi under NMSA scheme from UAS, Dharwad.	Dr. M. B. Chetti Hon'ble Vice Chancellor, UAS, Dharwad	
	It is suggested to get the equipments required to start Bio control laboratory will at KVK, Indi from UAS, Dharwad	Dr. M. B. Chetti Hon'ble Vice Chancellor, UAS, Dharwad	
	It is suggested to start a model demonstration on Integrated farming system (IFS) at KVK, Indi.	Dr. Venkatsubramanian, Director, ATARI, Bengaluru	
	It is suggested to popularize Kisan Rath, and FARMS app among the farmers.	Dr. Venkatsubramanian, Director, ATARI, Bengaluru	
	It is suggested to take necessary steps to create awareness on food processing for the benefit of farmers.	Dr. T. Siddanna, Joint Director, Industrial Centre, Vijayapura	
	It is advised to establish small demo unit having different sugarcane varieties at KVK, Indi or Shri ChidamabarKullkarni farmer field.	Sri. Chidambar Kulkarni, Farmer, Post: BaraguidTq: Indi	
	The shortage of labour problem in cotton picking increasing day by day, it is advised in collaboration with cotton corporation of India, conduct the cotton picking machine method demonstration and in the same line in association with national pomegranate research institute, Solapur, it is advised to conduct training on Pest and disease management in Pomegranate.	Dr. Shreepad Kulkarni, Nodal Officer, UAS, Dharwad.	
	It is advised to improve KVK, website	Dr. Venkatsubramanian, Director, ATARI, Bengaluru	

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.)*
Indi- Block Bairunagi- Village	Sugarcane (Irri.)- 28 ha	<ul style="list-style-type: none"> Planting material (40%) Root grub (60%) Wooly Aphid(30%) 	18ha	FLD, OFT, Training Programmers, Method demonstrations, Field Visits, field days etc.,
	Redgram (Rainfed. & irrigated)- 23 ha	<ul style="list-style-type: none"> Wilt (20%) Pod borer (45%) SMD (20%) 	16 ha	
	Chickpea (Rainfed)- 12 ha.	<ul style="list-style-type: none"> Pod borer (30%) Dry root rot/wilt (20-30%) 	8 ha	
	Maize (K) Irrigated-20 ha.	<ul style="list-style-type: none"> Fall Army worm (50%) 	12 ha	
	Wheat (irrigated) —12 ha	<ul style="list-style-type: none"> Low yield (45%) Rust(20%) 	8 ha	
	Groundnut (Rainfed)-12 ha	<ul style="list-style-type: none"> Lack of use of bio- fertilizers, Delay maturity due to S deficiency, Ca deficiency causes groundnut pegs and pods to abort and reduced yield 	9 ha	
	Cotton-(irrigated) -25 ha	<ul style="list-style-type: none"> Leaf reddening, pink bollworm and sucking pests incidence, lack of knowledge about foliar nutrition 	15 ha	
	Onion -06 ha	<ul style="list-style-type: none"> Low yield (30%), Rotting (15%) Sucking pests (20%) Purple blotch (50%) 	4 ha	
	Lime-27 ha	<ul style="list-style-type: none"> Micro nutrient deficiency (10%) low yield during summer Canker (40 %), Die back (10 %) Wilt (10%), Sucking pests (25 %) 	20 ha	

	Grape -4.8 ha	<ul style="list-style-type: none"> • Stem borer (30%), Fruit rot (15%) • Downey and powdery mildew (25%) • Micro nutrient deficiency (10%) 	2.5 ha	
	Pomegranate - 08 ha	<ul style="list-style-type: none"> • Blight (30%) • Wilt (30%) • Fruit sucking moth (25-30%) 	5 ha	FLD, OFT, Training Programmes, Method demonstrations, Field Visits, field days etc.,
	Chilli -2.4 ha	<ul style="list-style-type: none"> • Low yield and inferior quality • Murda complex (30%) • Powdery mildew infestation (10%) • Sucking pest (30%) 	2.0 ha	
	Watermelon -3 ha	<ul style="list-style-type: none"> • Flowering and fruit set is poor due to deficiency of Boron in cucurbitaceous, yield, quality of fruit is less. 	2 ha	
	Tomato - 2 ha	<ul style="list-style-type: none"> • Flowering and fruit set is poor due to deficiency of micronutrients • Yield and quality of fruit is low 	1.4 ha	
	Livestock & poultry	<ul style="list-style-type: none"> • 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 		
	Fisheries	<ul style="list-style-type: none"> • Lack of knowledge on fish rearing in farm ponds • Low Yield, Problem of fish catching birds 		
	Post-harvest, Nutrition Security, Drugery reducing tools and value addition	<ul style="list-style-type: none"> • Lack of knowledge on value addition (75%) • Unaware of new processing equipment's 		FLD, OFT, Training Programmes, Method demonstrations, Field Visits, field days etc.,

		<ul style="list-style-type: none"> • 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 		
Sindagi-Block Navadagi Village	Redgram -320 ha	<ul style="list-style-type: none"> • Wilt/ dry root rot and pod borer (60%) • Moisture stress (40%) • Mono-cropping (25 %) 	250 ha	
	Wheat (Rainfed)- 40 ha	<ul style="list-style-type: none"> • Low yielding lodging varieties (45%) • Rust (10%) 	24 ha	
	Chickpea (Rainfed)-240 ha.	<ul style="list-style-type: none"> • Pod borer (30%) • Dry root rot/wilt (20-30%%) 	200 ha	
	Cotton – 300 ha	<ul style="list-style-type: none"> • Leaf reddening, pink bollworm and sucking pests incidence, lack of knowledge about foliar nutrition 	210 ha	
	Maize (K) Irrigated-10 ha.	<ul style="list-style-type: none"> • Fall Army worm (50%) 	6 ha	
	Groundnut (Rainfed)-160ha	<ul style="list-style-type: none"> • No use of bio- fertilizers, • Delay maturity due to S deficiency, • Ca deficiency causes groundnut pegs and pods to abort and reduced yield 	100 ha	
	Lime -20 ha	<ul style="list-style-type: none"> • Micronutrient deficiency (20%), Canker (40%) • Gummosis and die back (10%) 	14 ha	

	Pomegranate -12 ha	<ul style="list-style-type: none"> • Blight (30%) • Wilt (30%) • Fruit sucking moth (25-30%) 	8 ha	
	Onion -28 ha	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Flowering and fruit set is poor due to deficiency of micronutrients • Yield and quality of fruit is low 	2 ha	
	Chilli –20 ha	<ul style="list-style-type: none"> • Low yield and inferior quality • Murda complex (35%) • Powdery mildew infestation (10%) • Sucking pest (35%) 	14 ha	
	Watermelon-8 ha	<ul style="list-style-type: none"> • Flowering and fruit set is poor due to deficiency of Boron in cucurbitaceous, yield, quality of fruit is less. 	5 ha	
	Livestock & poultry	<ul style="list-style-type: none"> • Scarcity of green fodder during summer • Lack of knowledge on silage preparation • Low egg laying capacity in local poultry • birds • Low quality fodder • Slow growth rate in growing goats • Low milk yield and reduced conception rate 		FLD,OFT, Training Programmes, Method demonstrations, Field Visits
	Fisheries	<ul style="list-style-type: none"> • Lack of knowledge on fish rearing in farm ponds 		

	Post-harvest and value addition	<ul style="list-style-type: none"> • 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
Chadachan block Manankalagi Village	Redgram -1155 ha	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Fall Army worm (75%) • Root grub (25%) • Micronutrient deficiency 	450 ha	
	Wheat (irrigated)- 575 ha	<ul style="list-style-type: none"> • Low yield (55%) • Rust (30%) 	420 ha	
	Chickpea (Irri.)-1444 ha.	<ul style="list-style-type: none"> • wilt (30%) • Pod borer (20%) • Dry root rot (30%) 	1264 ha	
	Groundnut (Rainfed)- 288 ha	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Planting material 	120 ha	

		<ul style="list-style-type: none"> • Stem borer (16 %) • Woolly Aphid (33%) 		
	Lime-230 ha	<ul style="list-style-type: none"> • Micro nutrient deficiency (10%) • Canker (40 %), Die back (10 %) • Wilt (10%), Sucking pests (25 %) 	180 ha	
	Pomegranate -58 ha	<ul style="list-style-type: none"> • Blight (30%) • Wilt (30%) • Fruit sucking moth (25-30%) 	40 ha	
	Onion - 58 ha	<ul style="list-style-type: none"> • Low yielding private varieties (30%) • Rotting (15%) • Sucking pests (20%) • Non-application of sulphur • 15-20 % of storage losses 	42 ha	
	Tomato – 144 ha	<ul style="list-style-type: none"> • Flowering and fruit set is poor due to deficiency of micronutrients • Yield and quality of fruit is low 	120 ha	
	Watermelon- 28 ha	<ul style="list-style-type: none"> • Flowering and fruit set is poor due to deficiency of Boron in cucurbitaceous, yield, quality of fruit is less. 	18 ha	
	Chilli– 56	<ul style="list-style-type: none"> • Low yield and inferior quality • Murda complex (35%) • Powdery mildew infestation (10%) • Sucking pest (35%) 	40 ha	
	Grape – 55 ha	<ul style="list-style-type: none"> • Powdery mildew (20%) • Stem borer (25%) • Micro nutrient deficiency (10%) 	46 ha	
	Livestock & poultry	<ul style="list-style-type: none"> • Lack of knowledge on silage preparation • Low egg laying capacity in local poultry • birds • Not aware of improved variety of 		FLD,OFT, Training Programmes, Method demonstrations, Field Visits, field days

		birds <ul style="list-style-type: none"> • Scarcity of fodder during summer • Low quality fodder • Slow growth rate in growing goats 		
	Fisheries	<ul style="list-style-type: none"> • Lack of knowledge on fish rearing in farm ponds • Low Yield, Problem of fish catching birds 		
	Post-harvest and value addition	<ul style="list-style-type: none"> • 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

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 (g/kg/no)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members
5.1	Bhendi	Inferior quality of fruits YVMV incidence and Low yield (7.5t/ha)	Assessment of Bhendi hybrids for adoptability in Vijayapura District	TO1(FP): Pvt. Hybrid				4900 +1100 for Bhendi pucker and hand gloves	05	25,600	1)Fruit length (cm) 2)PDI (%) 3) yield and economics	Horticulture, SS&H Home Science
				TO2(RPP): CoBH-4	TNAU	Seeds and vegetable special	1kg 1kg					
				TO3(AP) : Arka Nikita	IIHR,B	Seeds and vegetable special	1kg 1kg					
				BhendiPluckers and hand gloves								
5.2	Onion	Non-application of sulphur, 15-20 % of storage losses	Assessment of Sulphur application in onion	TO1:Farmer practice	..	Sulphur	12.5 kg	2,750	6	16,500	Soil test before & after application (including sulphur), fresh weight of onion (g), dry weight of onion (g), bulb diameter (cm), yield (q/ha), shelf life (days) and B:C	Soil Science, Horticulture, SS&H Home Science
				TO2: NPKS @ : 110:40:60:20 kg / ha and Azospirillum and PSB @ 5 kg each/ha	DOGR, Pune	<i>Azospirillum</i> <i>Azotabactor</i> PSB	1 kg 1kg 2 kg					
				TO3 : NPKS @ 100:50:50:30 kg/ha and Azotabactor and PSB @ 5 kg each/ha	HRDF, Nasik	<i>Azospirillum</i> <i>Azotabactor</i> PSB	1 kg 1kg 2 kg					

5.3	Onion	Low yield of onion (20-30%) due to Foliar diseases (Purple Blotch, Stemphylium Blight) and twisting disease (Pathogens involved are Colletotrichum spp, Fusarium Meloidogyne sp and thrips)	Management of foliar diseases/Twisting disease in Onion	TO 1: Spraying with mixture of pesticides	Farmer Practice				31,700	6	Disease incidence and yield	Plant Protection, Horticulture and SS and Head
				<p>TO 2: Soil application of <i>Trichoderma</i> sp @ 2 kg multiplied with 100 kg of farm yard manure (FYM)/ha.</p> <p>Seed treatment with <i>Trichoderma</i> sp @ 6 g/kg seed</p> <p>Seedling root dipping (0.25% carbosulfan 25 EC + 0.1 % carbendazim 50 WP)</p> <p>Foliar spray of insecticide Fipronil 5 SC @ 1ml/L</p> <p>Foliar spray of fungicide hexaconazole 5 EC or Propiconazole 25 EC (0.1%)</p>	Model1	Trichoderma harzianum	3 Kg	390				
						Pseudomonas fluorescens	3 Kg	450				
						Fipronil 5% SC	500 ml	1400				
						Propiconazole 25% EC	500 ml	1000				
						Carbendazim 50 WP	500 g	500				
						Boron	6 Kg	1000				
						Neem cake	200 Kg	1600				
				TO3: Soil application of Neem cake 5 q/ha+ <i>Trichoderma harzianum</i> 5 kg/ha with 100 kg of farm yard manure (FYM)/hectare	Model2							
				Seed treatment with Carbendazim 50 WP @ 2g /kg and seedling dip with <i>Trichoderma floescens</i> @ 10 g/l								
Foliar spraying with Boron @ 2g/l, Multi K @ 5g/l, Hexaconazole 5 EC @ 0.1 % and												

				Fipronil 5 SC @ 1ml/L at 30 DAS								
5.4	Chickpea	Low yield due to non branching (10%)	Assessment of solar operated nipping (young tip/shoot collecting) machine for chickpea	TO1: Farmer Practice	FP	Hand nipping	-	8000 +	5	9000 (one machine worth of Rs. 6000 for 5 demos)	Yield and Economics, Qty of green vegetative leaf collected, Income generated by sale of green vegetative leaf	Home Science, SS&H & Soil Science
				TO2:RP: Solar operated nipping (young tip/shoot collector)	UAS, Raichur	Nipping machine	01					
5.5	Chickpea	Wilt/dry root rot	Assessment of chickpea varieties for wilt and dry root rot	TO1= JG-11 TO2=BGD 103 TO3=NBeG-47	UAS, Dharwad UAS, Raichur ANR AU, Guntur	JG-11 BGD 103 NBeG-47	10 kg each	2600	6	15,600	Germination percent, disease incidence and yield	Plant Protection, SS and Head and ,Soil Science

				g per plant around root zone • Soil application of ZnSo4 and FeSo4 10 kg per acre		Mefonoxam MZ or fosetyl AL 80 WP (Aliette) @ 2.5 g per	250 g	500					
								700					
5.7	Ajwain	Delay in monsoon (Failure of <i>kharif</i> rainfall condition)	Assessment of Ajwain of varieties	TO1= Kadapa	Local variety				5	6000	<ul style="list-style-type: none"> • Days taken for 50 % flowering, • Yield and economics 	Horticulture, PP, SS&H and AS	
				TO2= AA1	NRCSS, Ajmer, Rajasthan	Seeds (AA-1)	1 Kg	300					
				TO3= AA-93	NRCSS, Ajmer, Rajasthan	Seeds (AA-93)	1 Kg	300					
					Rhizobium,P SB& Trichoderma	2.5 Kg	400						

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 (g/kg)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
6.1	Cereals	Maize	Fall army worm incidence	Fall army worm management :	-		UAS, Dharwad	Sleeve Traps @ 12 no. per acre.	12 numbers	2200 /-	09	19800/-	Yield and economics , no of adults trapped in trap, no. of caterpillars, no. of damaged cob	Plant Protection, Soil Science, SS &H and Home Science
								Spray of Emamectin benzoate 5 EC @ 0.25 g/l of water	100g					
								Chlorantriliniprol 0.2 ml per litre water spray	30ml					
		Durum wheat	Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight	New variety UAS-304/334 (Resistant to rust & good quality of chapati)	UAS 304/334	-	UAS(D)	Seeds Azospirillum, PSB and Hexaconazole	60 kg 100gm 100 gm 500 ml	2950	10	29,500	No. of tillers / hill, rust incidence, yield and economics	Agronomy H.Sc, , Soil Science, Plant protection

		Dicocumwheat	Low yielding varieties, lodging, leaf blight and rust	<i>Dicoccum</i> Wheat at DDK-1029, seed treatment with biofertiliser and management of rust.	DDK-1029	-	UAS(D)	Seeds Hexaconazole 1ml/lt	60 k g 500 ml	3100	10	31,000	No. of tillers / hill, lodging %, rust incidence, yield & yield parameters, economics.	Agronomy H.Sc, , Soil Science, Plant protection
6.2	Millets													
		Foxtail millet	Low income realization due to lack of knowledge on processing, value addition, labeling, packaging and branding	Foxtail millet variety DHFt-109-3 processing and value addition for health mix	DHFt-109-3	-	UAS(D)	Seeds Azospirillum & PSB Sealing machine Weighing scale Packaging materials Labels	15 Kg 1000g 1 1 Products Products	2000	10	20,000	Yield, Cost of production, Consumer acceptability, Shelf life and Cost of production	H.Sc, Agronomy, Soil Science, Pathology
6.3	Oilseeds													
		Groundnut	non usage of bio-fertilisers, Delay maturity due to S deficiency, Ca deficiency causes groundnut pegs and pods to abort and reduced yield	Seed treatment with bio-cultures, Pre-emergence herbicide (Pendimethaline), Zinc sulphate and ferrous sulphate @ 25 kg/ha each, gypsum application @ 500 kg/ha, hostathion for leaf minor.	G2-52	-	UAS, Dharwad	Pods of G2-52 variety pods Bio cultures (Rhizobium, PSB and Trichoderma) Pendimethaline 30%EC Ferrous sulphate Zinc sulphate	30kg 1 kg each 1 Liter 10kg 10kg	06	6,200	37,200	Soil sample analysis before and after foliar spray, yield and economics.	Soil Science, Horticulture and SS & H (Agronomy)

6.4	Pulses													
		Pigeon pea	Low yield due to less branching	Demonstration of solar operated nipping machine for pigeon pea	-	-	UAS, Raichur	Nipping machine Field boards	01 01	-	06	16000	Yield and Economics	Home Science, SS& H and Animal Science
		Pigeon pea	Low yield due to wilt and SMD and Traditional method of cleaning grains leads heavy drudgery and time consuming	Demonstration of GRG-811 variety of Redgram and drudgery reduction by using of spiral grader	of GRG-811		UAS, Dharwad and Raichur	Seeds Rhizobium, PSB Trichoderma Pulse magic Pheromone traps Spiral Grader	5 Kg 200 g 200 g 50 g 4 Kg 2 1	1750 (1750x10=17500+) 7000	10	24,500	Yield, wilt and SMD incidence	PC, PlantPrt, Soil Sci
		Pigeon pea	Sterility mosaic and Pod fly damage	Management of SMV and pod fly in redgram	-	-	UAS, Dharwad	Fenazaquin 10 % EC Thiomethoxam 25% WP Jaggery	250 ml 250 g 2 Kg	1050	10	10,500	Yield & economics, pest and disease incidence, No. of nodules/plant	Plant Protection, SS & H (Agronomy), Home Science

		Bengalgram	Old varieties and wilt	Demonstration of BGD-111-1 variety of Bengalgram	BGD-111-1	-	UAS, Dharwad,	Seeds Rhizobium PSB Trichoderma Chickpea special	25 Kg	2500	10	25000	Yield, wilt incidence	Agronomy and plant protection
6.5	Commercial crops													
		Cotton	Leaf reddening, pink bollworm and sucking pests incidence, lack of knowledge about foliar nutrition	Pheromone traps (30 nos/ha), Soil application of MgSO ₄ @ 25 kg/ha, foliar application of MgSO ₄ @ 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).	Greengram-DG	Bt cotton (private hybrid)	UAS, D	Greengram (DGGV-2) - Pheromone traps + lures MgSO ₄ (Soil application) MgSO ₄ (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 application Larvae / plant , No. of bolls/ plant , leaf reddening index and yield	Soil Science, Agronomy, Plant Protection

6.6	Horticultural crops													
		Rabi Onion	Non availability of season specific variety, Low yield and thrips incidence.	Demonstration of Bhima Shakti for Rabi season	Bhima Shakti		DOGR, Rajgurunagar	Seeds Hexaconozol 5%SC	2kg 500ml	3500	8	28,000	Weight and diameter of bulb Thrips incidence (%) Yield and economics	Hort, Plant Prt, Home Sc. & SS&H
		Lime	Citrus canker, Leaf Minor	Management of Citrus canker and leaf miner				Copper oxy chloride @ 0.2% Streptocycline @ 0.05% Pseudomonas liquid @ 5 ml/L neem oil 1500 PPM	1 Kg 150 gm 1000 ml 1000 ml	3385	10	33850	yield & economics, % citrus canker, dis. inc.	Plant Protection, Horticulture and Home Sci.,
		Pomegranate	Fruit sucking moth	Management of fruit sucking moth in pomegranate	Kesar		UAS Raichur, UHS Bagalkot	Light traps (5 traps/acre) + Neemark Cypermethrin	5 traps 1litre 250 ml	6,050	04	24,000	% Fruit sucking moth , yield & economics	Plant Protection, Horticulture, SS & H (Agronomy), H,Sc
		Chilli	Low yield, inferior quality,	Demonstration of chilli hybrid Arka Khyati	Arka Khyati	-	IIHR, Bengaluru	Seeds Vegetable special	60g 2kg	2500	06	15000	Fruit length (cm), 10 fruit	Horticulture, Plant Protection

			private hybrid, incidence of Leaf curling.					Fipronil 5% SC	500ml				weight (g), and Yield and economics	on, Home Science & SS&H
	Live stock	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, Coimbatore	1. Co-5 Stem cutting 2. Lucerne seeds 3. StyloHemata 4. CoFs-31 5. Pendimethaline	1000 0.5 Kg 0.5 Kg 0.5 Kg 100 ml	2,600	10	26,000	Total Yield (ton/hectare), Milk Yield (Lit./day)	Animal Science, Soil Science, SS&H
	Live stock	Cow	Low fat percentage in milk, low milk yield, Low quality of milk	Use of rumen bypass fat to improve milk yield and per cent milk fat in dairy cows	-	-	TNVAU, Coimbatore	By pass fat Probiotic	05 kg 01 Kg	2,500	08	20,000	Milk Yield (lit./day), Fat %, and Economics	Scientist (Animal Science), Soil Science, SS&H
	Fishes	Inland Fish farming	Lack of knowledge on composite fish culture Low body weight	Promotion of composite fish farming in farm ponds	Catla, Rohu, Common carp	-	KVAFSU, Bidar	1. Fingerlings 2. Ground nut oil cake 3. Rice bran	1500 no 15 kg 40 kg	3,000	06	18,000	1. Net weight gain (kg) 2. Mortality rate (%)	Animal Science, Horticulture and SS&H

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	1000	40	,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	Home Science, Horticulture, Pathology, Agronomy
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EDP – Entrepreneur Development Programme

Lemon powder processing and value addition 1 SHG (15 member)

Critical Input :dryer structure and steel trays

- Parameter to be recorded :Nutritional composition, Shelf life , Economics, Microbial study
- Budget Required: Rs 50,000

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	Maize	OFT	Importance of micronutrient application in agriculture and horticulture crops	01	25-30	Soil Science, Plant Protection, &H (Agronomy)
		Maize	FLD	ICM in maize	01	25-30	Soil Science, Plant Protection, &H, Home Science
		Groundnut	FLD	Integrated Crop Management in Groundnut	01	25-30	Soil Science, Plant Protection, &H Home Science
		Redgram	FLD	Integrated Crop Management in Redgram	01	25-30	Soil Science, Plant Protection, &H Home Science
		Bengalgram	FLD	Integrated Crop Management in Bengalgram	01	25-30	Soil Science, Plant Protection, &H Home Science
		Wheat	FLD	Integrated Crop Management in Wheat	01	25-30	Soil Science, Plant Protection &H Home Science
		Cotton	FLD	Management of leaf reddening and pink bollworm in Cotton	01	25-30	Soil Science, Plant Protection,
7.2	Horticulture production	Lime	Other	Integrated crop management in lime	01	25-30	Horticulture, Plant Protection and Agronomy
		Pomegranate	Other	Advances in Pomegranate cultivation	01	25-30	Horticulture, Plant Protection and Agronomy
		Ajwain	OFT	Integrated crop management in Ajwain	01	25-30	Horticulture, Plant Protection and Agronomy
		chilli	FLD	Recent advances in chilli cultivation	02	25-30	Horticulture, Plant Protection and

							Agronomy
		Onion	FLD	Recent advances in onion cultivation	02	25-30	Horticulture, Plant Protection and Agronomy
		Bhendi	OFT	Integrated crop management in Bhendi	01	25-30	Horticulture, Plant Protection and Agronomy
		Pomegranate	Other	Propagation techniques in Pomegranate	01	25-30	Horticulture, Plant Protection and Agronomy
		flower crops	Other	Production technology of flower crops (EF)	01	25-30	Horticulture, Plant Protection and Agronomy
		Brinjal	Other	Integrated crop management in Brinjal	01	25-30	Horticulture, Plant Protection and Agronomy
7.3	Livestock production	Fodder	OFT	Azolla and Chaya Cultivation and its importance	02	50-60	Sci (Anim Sc.), Soil Science, SS&H
		Poultry	VFS	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.), Home Science, SS&H
		Livestock	FLD	Perennial Fodder Cultivation	02	50-60	Sci (Anim Sc.), Home Science, 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	Pigeon pea	FLD	Solar operated nipping machine for pigeon pea	01	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
		Value addition	-	Value addition to cereals, pulses and oil seeds	01	30-50	H.Sc, Agronomy, Veterinary, Pathology and Soil Science
		-	FLD	Agro based micro enterprises for farm women	01	30-50	H.Sc, Veterinary Agronomy, and Soil

							Science
		Drudgery reducing	FLD	Drudgery reducing tools and equipment's in Chickpea and Pigeonpea	01	30-50	H.Sc, Agronomy, Soil Science and Veterinary
		Lemon	EDP	Lemon powder processing and Value addition	01	30-50	H.Sc, Veterinary Agronomy and Soil Science
		Nutri Farm		Importance of Nutrition garden and its layout	01	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
7.5	Plant protection	Redgram	-	Pest and Disease management in redgram	02	25-30	PP, Agronomy, Soil Science
		-	-	Importance of seed treatment in different crop	02	25-30	PP, Agronomy, Soil Science
		Sugarcane	-	Sugarcane root grub management	02	25-30	PP, Agronomy, Soil Science
		-	-	Safe use of fungicide and insecticide in agriculture and horticulture	01	25-30	PP, Horticulture, Agronomy, Soil Science
		Biopesticide	-	Management of pest and disease through formulation of bio-pesticide	01	25-30	PP, Horticulture, Agronomy, Soil Science
		Maize	FLD	Management of fall armyworm in Maize	02	25-30	PP, Horticulture, Agronomy, Soil Science
		Pomegranate	FLD	Management of fruit sucking moth in pomegranate	01	25-30	PP, Horticulture, Agronomy, Soil Science
7.6	Production of inputs at site	Vermicompost		Production of vermicompost	02	60	Soil Science Agronomy,
		Onion	OFT	Importance of Ca and Sulphur in onion	01	25-30	Soil Science, Hort, Plant Prt,
		Groundnut	FLD	Importance of Ca and Sulphur in Groundnut	01	25-30	Soil Science, Hort, Plant Prt,
7.7	Soil health and fertility	Cotton	FLD	Management of leaf Redding and pink boll worm in cotton	01	25-30	Soil Science, Hort, Home Science
		Tomato and Watermelons	FLD	Importance of Foliar application of Micronutrient in tomato and melons	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						
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 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						
8.2	Horticulture production						
8.3	Livestock production						
8.4	Home Science						
8.5	Plant protection						
8.6	Production of inputs at site						
8.7	Soil health and fertility						
8.8	PHT and value addition						
8.9	Capacity building/ group dynamics						
8.10	Farm mechanization						

8.11	Fisheries production technologies						
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 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				
9.2	Home Science				
9.3	Capacity building and group dynamics				

9.4	Horticulture				
9.5	Livestock productionandmanagement				
9.6	Plant protection				
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				

10.10	Sericulture						
10.11	Fisheries						
10.12	Other, pl. specify						

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						
11.2	Home Science						
11.3	Capacity building and group Dynamics						
11.4	Horticulture						
11.5	Livestock production and management						
11.6	Plant protection						

11.7	Farm mechanization						
11.8	PHT and value addition						
11.9	Production of inputs at site						
11.10	Sericulture						
11.11	Fisheries						
11.12	Others, pl. specify						

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			
12.2	Diagnostic visits			
12.3	Field days			
12.4	Group discussions			
12.5	Kisangosthies			
12.6	Film shows			
12.7	Self -Help Groups (SHGs) meetings			
12.8	KisanMelas			
12.9	Exhibitions			

12.10	Scientists' visit to farmers fields			
12.11	Plant/soil health/animal health camps			
12.12	Farm science club meetings			
12.13	Ex-trainees sammelans (Meetings)			
12.14	Farmers' seminars/workshops			
12.15	Method demonstrations			
12.16	Celebration of important days			
12.17	Special day celebrations			
12.18	Exposure visits			
12.19	Technology week celebration			
12.20	Farmers Field School (FFS)			
12.21	Farm innovators meet			
12.22	Awareness programmes			
12.23	Pre-kharif campaign			
12.24	Pre-rabi/summer campaign			
12.25	Others, pl. specify			

13. Activities proposed as knowledge and resource center 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				
13.1.2	Demonstration units				
13.1.3	Lab analytical services				
13.1.4	Technology week				
13.1.5	Others, Pl. specify				

13.2 Technological products

Sl. No.	Category	Name of the production partner agency, if any	Name of the product	Quantity planned to be produced during 2019-20 (q)	Number planned to be produced during 2019-20	Names of the team members involved
13.2.1	Seeds					
13.2.2	Planting material					
13.2.3	Bio-products					
13.2.4	Livestock strains					
13.2.5	Fish fingerlings					
13.2.6	Any other, pl specify					

13.3 Technological information

Sl. No	Category	Technological capsules/lectures/number	Names of the team members involved
13.3.1	Technology backstopping to line departments		
	a. Agriculture		
	b. Horticulture		
	c. Animal Husbandry		
	d. Fisheries		
	e. Agricultural Engineering		
	f. Sericulture		
	g. Others, pl. specify		
13.3.2	Literature/publication		
13.3.3	Electronic media		
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 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

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)	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)

15.2 Plan of activities under revolving fund

Sl.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved

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		
16.2	Soiltest using mobile analysis kit		
16.3	Water		
16.4	Plant		
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		
17.3	Any other (Please specify)		

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

Sl. No	Activities planned	Remarks if any

19. Farmers Field School (FFS) planned

Thematic area	Title of the FFS	Budget proposed in Rs.

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) up to 31 January 2021

					(Rs.)
Sl.No.	Particulars	Sanctioned	Released	Expenditure	
21.1	(A). REVENUE (Recurring Contingencies)				
21.1.1	Pay & Allowances				
21.1.2	Traveling allowances				
21.1.3	Contingencies				
21.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>				
21.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>				
21.1.3.c	<i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i>				
21.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>				
21.1.3.e	<i>Frontline demonstrations</i>				
21.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>				
21.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>				
21.1.3.h	<i>Training of extension functionaries</i>				
21.1.3.i	<i>Extension activities/services</i>				
21.1.3.j	<i>Farmers' Field School</i>				
21.1.3.k	<i>EDP (2 Nos.) / Innovative activities</i>				

21.1.3.l	<i>Soil & water testing & issue of soil health cards</i>			
21.1.3.m	<i>Maintenance of building</i>			
21.1.3.n	<i>Farmers Conclave, KVK Conference</i>			
21.1.3.o	<i>Video production</i>			
21.1.3.p	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>			
	Total Recurring			
21.2	(B). CAPITAL (Non-Recurring Contingencies)			
21.2.1	Equipments & Furniture			
21.2.2	Works			
21.2.3	Vehicle			
21.2.3 a	Four wheeler (replacement)			
21.2.4	Library			
	Total Non Recurring			
21.3	(C). REVOLVING FUND			
	GRAND TOTAL (A+B+C)			

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

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