

ICAR-K.H.PATIL KRISHI VIGYAN KENDRA, HULKOTI, GADAG DISTRICT

ACTION PLAN FOR 2021-22

1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with phone, fax and e-mail ID	:	ICAR-K.H. Patil Krishi Vigyan Kendra Hulkoti – 582205 Dist.: Gadag, State: Karnataka Phone : (08372) 289606 E-mail : kvk.gadag@icar.gov.in , kvkhulkoti@gmail.com Website: www.khpkvk.org
1.2	Name and address of host organization	:	Agricultural Science Foundation Hulkoti – 582205 District: Gadag, State: Karnataka Phone : (08372) 289069 E-mail : hulkotiasf@gmail.com asf_hulkoti@yahoo.co.in Website: www.asf.ind.in
1.3	Year of sanction	:	1985
1.4	Website address of KVK and date of last update	:	www.khpkvk.org and date of last update is 28-07-2021

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. L.G. Hiregoudar	Crop Physiology	37400-67000	10000	05.09.1992	P
2.2	Subject Matter Specialist	Mr. S.H.Adapur	Ag. Extension	15600-39100	7600	22.11.1990	P
2.3	Subject Matter Specialist	Dr. S.V.Mankani	Home Science	15600-39100	7600	20.07.1993	P
2.4	Subject Matter Specialist	Mr. V.D.Vaikunthe	Agronomy	15600-39100	7600	23.07.1985	P
2.5	Subject Matter Specialist	Mr. N.H.Bhandi	Soil Science	15600-39100	6000	01.06.2005	P
2.6	Subject Matter Specialist	Ms. Hemavati R.H.	Horticulture	15600-39100	5400	14.02.2020	P

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		
2.7	Subject Matter Specialist	VACANT	Agri. Engineering	-	-	-	-
2.8	Programme Assistant (Animal Science)	Dr. B.M.Murgod	Animal Husbandry	9300-34800	4600	25.06.2007	P
2.9	Programme Assistant (Computer Programmer)	Smt. L.S.Asuti	Computers	9300-34800	4600	01.06.2005	P
2.10	Programme Assistant (Farm Manager)	Mr. S. L. Halemani	Farms	9300-34800	4200	01.02.2011	P
2.11	Accountant/Superintendent	Mr. M.B. Jakkanagoudra	-	9300-34800	4600	25.06.2007	P
2.12	Stenographer	Mr. T.K. Sai Swaroop Rao	-	5200-20200	2400	15.12.2016	P
2.13	Driver 1	Mr. N.L. Hadapad	-	5200-20200	2400	03.09.1992	P
2.14	Driver 2	Mr. G.D. Madivalar	-	5200-20200	2400	20.07.1995	P
2.15	Skilled Support Staff-1	Mr. V.R. Navalli	-	5200-20200	2400	20.07.1993	P
2.16	Skilled Support Staff -2	Mrs. S. V. Karadani	-	5200-20200	2400	14.02.2020	P

3. Details of SAC meeting conducted during 2020-21

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
10-03-2021		Make trial of Ajawan crop once again. Take-up repeated sowing if germination does not come properly.	Shall be taken up once again during Rabi season 2021-22 as germination was not obtained during Rabi season of previous year	
		Plant Mehandi and Soapnut as hedge trees and Muttala leaf tree as these plants will give raw material for preparation of various products and this will give employment opportunity to SHGs.	Planting will be taken-up at KVK farm as demonstration	
		Grow Wood Apple in KVK demonstration plot as it is one of the good medicinal plant.	Planting will be taken-up at KVK farm as demonstration	
		Prepare contingency plan for excess / scanty rainfall for Gadag district if situation arises. Then provide this plan information to all villages through e-mails of Gram Panchayats in the district and through farmers' various Whatsapp groups.	It shall be taken-up during the year 2021-22	

Date	Number of Participants	Salient Recommendations	Action taken	Remarks, if any
		Provide information of UAS Scientists working in Agro-forestry at Sirsi and Dharwad to Gadag district farmers interested to know about growing forestry species.	KVK will provide this information to interested farmers	
		Arrange trainings on agriculture marketing to the farmers especially with respect to cleaning, grading and bulk marketing.	These trainings will be arranged during the year 2021-22	
		Provide information to farmers about Nano Urea, liquid NPK nutrients, liquid bio-fertilisers etc. during farmers' training programmes.	It shall be taken up during trainings of Agronomy and Soil Science	
		Take-up trials of new varieties like DBG-3 and DBG-4 in Groundnut, DBVG-4, NBEG-47 & NBEG-49 in Bengalgram, DGGV-7 in Greengram and CSR-29R in Rabi Sorghum.	Already planned OFTs and FLDs using these new varieties during the year 2021-22	

Tentative date of SAC meeting proposed during 2021-22 : November, 2021

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 Shirol (Gadag block)	Maize	<ul style="list-style-type: none"> • Low income due to mono cropping • Imbalanced nutrition • Incidence of army worm • Incidence of Turcicum leaf blight • Drudgery during threshing and winnowing of Maize 	35 ha.(40%)	<ul style="list-style-type: none"> • FLD on Maize + Redgram (4:2) intercropping system • Training on ICM in Maize+Redgram intercropping system • Training on IPM in Maize • Supply of literature • FLD on functional clothing kit • Field day • Training on drudgery reduction
	Vegetable crops	<ul style="list-style-type: none"> • Low income due to cultivation of local varieties 	36 ha. (60% of the irrigated area)	<ul style="list-style-type: none"> • FLD on Vegetable Cafeteria (Ridgegourd, Dolichos bean, French Bean, Coriander and Amaranthus)

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.)*
				<ul style="list-style-type: none"> • Trainings on ICM in vegetable crops • Supply of literature • Field days
	Okra	<ul style="list-style-type: none"> • Low productivity due to cultivation of low yielding Okra private hybrids 	32 ha. (45% of the irrigated area)	<ul style="list-style-type: none"> • OFT on Assessment of high yielding Okra hybrids for higher productivity • Training on ICM in Okra crop • Supply of literature
	Green chilli	<ul style="list-style-type: none"> • Low income due to application of imbalanced nutrition • Incidence of sucking pest and pod borer • Incidence of Murda complex disease 		<ul style="list-style-type: none"> • FLD on ICM in Green Chilli • Training on ICM in flower crops • Supply of literature • Field day
	Flower crops	<ul style="list-style-type: none"> • Low quality and low yields are due to imbalanced nutrients (loose flower buds and improper opening of flower buds and low shelf life) • Low yield is also due to incidence of bud borer pest and leaf spot diseases 	24 ha. (40% of the irrigated area)	<ul style="list-style-type: none"> • FLD on ICM in Chrysanthemum • Training on ICM in flower crops • Supply of literature • Field day
	Dryland horticulture	<ul style="list-style-type: none"> • Less profit from existing cropping pattern due to vagaries of monsoon and lack of crop diversification 	All area	<ul style="list-style-type: none"> • Training on tree based farming system • Supply of literature
	Borewell	<ul style="list-style-type: none"> • Decreased ground water level and less water availability for irrigation 	30 ha.	<ul style="list-style-type: none"> • Training on recharge of ground water through borewell • Field visits to demonstration units of artificial recharge of ground water through borewell • Supply of literature

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.)*
	Milch cattle	<ul style="list-style-type: none"> • Low productivity of milk due to non-availability of green fodder throughout the year. 	50 Nos.	<ul style="list-style-type: none"> • FLD on fodder cafeteria • Training on scientific management of milch cattle • Supply of literature • Field visit • Mobile advisory services • Field day • Animal health camps in collaboration with Department of Animal Husbandry
	Nutrition and health	<ul style="list-style-type: none"> • Less consumption of fruits and vegetables 	85% families	<ul style="list-style-type: none"> • Training on balanced diet and nutrition • Training on healthy foods for healthy life • Training on importance of millets in diet
	PHT in Chilli	<ul style="list-style-type: none"> • Unhygienic way of drying of Red Chillies 	80 % families	<ul style="list-style-type: none"> • FLD on solar drying of Red Chillies • Training on use of solar dryer for drying of chillies
	Organic input production	<ul style="list-style-type: none"> • Lack of awareness on importance of organic inputs among farm women 	70% families	<ul style="list-style-type: none"> • Training • Supply of literature
Cluster B Shingatarayankeri (Mundaragi block)	Bt. Cotton	<ul style="list-style-type: none"> • Incidence of sucking pest & mirid bug • Incidence of leaf spot & leaf reddening 	150 ha. (40%)	<ul style="list-style-type: none"> • Training on IPM in Bt. Cotton • Supply of literature
	Maize	<ul style="list-style-type: none"> • Low income due to mono cropping • Imbalanced nutrition • Incidence of army worm • Incidence of Turcicum leaf blight • Drudgery during threshing and winnowing of Maize 	80 ha.(25%)	<ul style="list-style-type: none"> • FLD on Maize + Redgram (4:2) intercropping system • Training on ICM in Maize+Redgram intercropping system • Training on IPM in Maize • Supply of literature • FLD on Functional Clothing Kit • Field day
	Rabi Sorghum	<ul style="list-style-type: none"> • Low productivity in local variety 	20 ha.	<ul style="list-style-type: none"> • FLD on ICM in Rabi Sorghum • Training • Extension activities

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	Spreading Groundnut	<ul style="list-style-type: none"> • Low yield is due to incidence of leaf minor and leaf spot 	30 ha. (10%)	<ul style="list-style-type: none"> • Training on ICM in Spreading Groundnut • Extension activities
	Summer Groundnut	<ul style="list-style-type: none"> • Incidence of leaf minor and leaf spot reduce the yields 	10 ha.(16%)	<ul style="list-style-type: none"> • FLD on ICM in summer groundnut (NMOOP) • Training on pest and disease management • Supply of literature • Field day
	Greengram	<ul style="list-style-type: none"> • Low yield due to incidence of powdery mildew 	30 ha. (10%)	<ul style="list-style-type: none"> • Training on ICM in Greengram • Supply of literature • Field day • FLD on ICM in Greengram (NFSM)
	Vegetable crops	<ul style="list-style-type: none"> • Low income due to cultivation of low yielding local varieties 	90 ha. (76% of the irrigated area)	<ul style="list-style-type: none"> • FLD on Vegetable Cafeteria (Ridgegourd, Dolichos bean, French Bean, Coriander and Amaranthus) • Trainings on ICM in vegetable crops • Supply of literature • Field days
	Okra	<ul style="list-style-type: none"> • Low productivity due to cultivation of low yielding Okra private hybrids 	50 ha. (40% of the irrigated area)	<ul style="list-style-type: none"> • OFT on Assessment of high yielding Okra hybrids for higher productivity • Training on ICM in Okra crop • Supply of literature
	Flower crops	<ul style="list-style-type: none"> • Low quality and low yields are due to imbalanced nutrients (loose flower buds and improper opening of flower buds and low shelf life) • Low yield is also due to incidence of bud borer pest and leaf spot diseases 	50 ha. (39%)	<ul style="list-style-type: none"> • FLD on ICM in Chrysanthemum • Trainings on commercial flower crops • Supply of literature • Field day
	Borewell	<ul style="list-style-type: none"> • Decreased ground water level and less water availability for irrigation 	120 ha. (37%)	<ul style="list-style-type: none"> • Training on recharge of ground water through borewell • Field visits to demonstration units of artificial recharge of ground water through borewell • Supply of literature

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.)*
	Milch cattle	<ul style="list-style-type: none"> • Low productivity of milk due to non-availability of green fodder throughout the year. 	10 Nos.	<ul style="list-style-type: none"> • FLD on fodder and azolla production & silage making • Training on scientific management of milch cattle • Supply of literature • Field visit • Mobile advisory services • Field days • Animal health camp with Department of Animal Husbandry
	Sheep	<ul style="list-style-type: none"> • Low body weight in lambs 	500 Nos.	<ul style="list-style-type: none"> • FLD on upgradation of local sheep with Nari Suvarna Ram • Training on scientific management of sheep
	Goat	<ul style="list-style-type: none"> • Low body weight in kids 	50 Nos.	<ul style="list-style-type: none"> • FLD on upgradation of local goats with Jamunapari buck • Training on scientific management of goats
	Nutrition and health	<ul style="list-style-type: none"> • Less consumption of fruits and vegetables 	85% families	<ul style="list-style-type: none"> • Training on balanced diet and nutrition • Training on healthy foods for healthy life • Training on importance of millets in diet
	Value addition	<ul style="list-style-type: none"> • Lack of value addition in milk 	50% families	<ul style="list-style-type: none"> • Training on importance of milk and value added products
	Drudgery	<ul style="list-style-type: none"> • Drudgery in weeding & intercultivation and cleaning & grading of grains 	80% families	<ul style="list-style-type: none"> • Demonstration on cycle weeder & spiral separator
	Organic input production	<ul style="list-style-type: none"> • Lack of awareness on importance of organic inputs among farm women 	70% families	<ul style="list-style-type: none"> • Training • Supply of literature • Field day
Cluster C Chikkasavanur (Shirahatti block)	Bt. Cotton	<ul style="list-style-type: none"> • Incidence of sucking pest & mirid bug • Incidence of leaf spot & leaf reddening 	125 ha. (40%)	<ul style="list-style-type: none"> • Training on IPM in Bt. Cotton • Supply of literature • Field day

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.)*
	Maize	<ul style="list-style-type: none"> • Low income due to mono cropping • Imbalanced nutrition • Incidence of army worm • Incidence of Turcicum leaf blight • Drudgery during threshing and winnowing of Maize 	110 ha. (50%)	<ul style="list-style-type: none"> • FLD on Maize + Redgram (4:2) intercropping system • Training on ICM in Maize+Redgram intercropping system • Training on IPM in Maize • Supply of literature • FLD on Functional clothing kit • Field day
	Rabi Sorghum	<ul style="list-style-type: none"> • Low productivity in local variety 	25 ha.	<ul style="list-style-type: none"> • FLD on ICM in Rabi Sorghum • Training • Extension activities
	Spreading Groundnut	<ul style="list-style-type: none"> • Low yield due to incidence of leaf minor and leaf spot 	20 ha. (16%)	<ul style="list-style-type: none"> • Training on ICM in Spreading Groundnut • Extension activities
	Summer Groundnut	<ul style="list-style-type: none"> • Incidence of leaf minor and leaf spot reduce the yields 	10 ha.(16%)	<ul style="list-style-type: none"> • FLD on ICM in summer groundnut (NMOOP) • Training on pest and disease management • Supply of literature • Field day
	Bunch Groundnut	<ul style="list-style-type: none"> • Moisture stress and long dry spell 	10 ha.(18%)	<ul style="list-style-type: none"> • OFT on drought tolerant TG-37A and DGRMB-24 varieties in bunch groundnut • Training on ICM practices • Supply of literature • Field day
	Greengram	<ul style="list-style-type: none"> • Low yield due to use of old variety and incidence of powdery mildew 	20 ha. (16%)	<ul style="list-style-type: none"> • FLD on ICM in Greengram (variety : DGGV-2) • Training on ICM in Greengram • Supply of literature • Field day
	Vegetable crops	<ul style="list-style-type: none"> • Low income due to cultivation of low yielding local varieties 	32 ha. (53% of the irrigated area)	<ul style="list-style-type: none"> • FLD on Vegetable Cafeteria (Ridgegourd, Dolichos bean, French Bean, Coriander and Amaranthus) • Training on ICM in vegetable crops • Supply of literature • Field days

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.)*
	Okra	<ul style="list-style-type: none"> • Low productivity due to cultivation of low yielding Okra private hybrids 	20 ha. (25% of the irrigated area)	<ul style="list-style-type: none"> • OFT on Assessment of high yielding Okra hybrids for higher productivity • Training on ICM in Okra crop • Supply of literature
	White Onion	<ul style="list-style-type: none"> • Low productivity due to cultivation of low yielding local variety 	15 ha. (23% of the irrigated area)	<ul style="list-style-type: none"> • OFT on assessment of White Onion varieties • Training on production technology in white onion • Field Day
	Perennial fruit crops	<ul style="list-style-type: none"> • Less profit from existing cropping pattern and lack of crop diversification 	All area	<ul style="list-style-type: none"> • Training on tree based farming system • Supply of literature
	Borewell	<ul style="list-style-type: none"> • Decreased ground water level and less water availability for irrigation 	60 ha. (30%)	<ul style="list-style-type: none"> • Training on recharge of ground water through borewell • Field visits to demonstration units of artificial recharge of ground water through borewell • Supply of literature
	Milch cattle	<ul style="list-style-type: none"> • Low productivity of milk due to non-availability of green fodder throughout the year. 	40 Nos.	<ul style="list-style-type: none"> • FLD on fodder cafeteria • Training on scientific management of milch cattle • Supply of literature • Field visit • Mobile advisory service • Field day • Animal health camp with Department of Animal Husbandry
	Goat	<ul style="list-style-type: none"> • Low body weight in kids 	200 Nos.	<ul style="list-style-type: none"> • Training on scientific management of goats
	Nutrition and health	<ul style="list-style-type: none"> • Less consumption of fruits and vegetables 	85% families	<ul style="list-style-type: none"> • FLD on nutri-farms for year round nutritional security among farm families • Training on balanced diet and nutrition • Training on healthy foods for healthy life • Training on importance of millets in diet
	Value addition	<ul style="list-style-type: none"> • Lack of value addition in milk 	50% families	<ul style="list-style-type: none"> • Training on importance of milk and value added products

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	PHT in Chilli	<ul style="list-style-type: none"> Unhygienic way of drying of Red Chillies 	80 % families	<ul style="list-style-type: none"> OFT on Assessment of various methods of drying of Red Chillies Training on use of solar dryer for drying of chillies
	Drudgery	<ul style="list-style-type: none"> Drudgery in weeding, intercultivation and cleaning and grading of grains 	80% families	<ul style="list-style-type: none"> Demonstration on cycle weeder & spiral separator
	Organic input production	<ul style="list-style-type: none"> Lack of awareness on importance of organic inputs among farm women 	70% families	<ul style="list-style-type: none"> Training Supply of literature Field day
Cluster G Kalakeri (Naragund block)	Greengram	<ul style="list-style-type: none"> Low productivity due to usage of low yielding local variety Incidence of yellow mosaic virus Incidence of powdery mildew Incidence of Spital bug and pod borer 	360 ha.	<ul style="list-style-type: none"> Training on ICM in Greengram Supply of literature Field day
	Bengalgram	<ul style="list-style-type: none"> Low yield due to cultivation of low yielding local variety Low yield due to incidence of wilt & rust and incidence of pod borer 	180 ha.	<ul style="list-style-type: none"> OFT on assessment of DBGV-204, NBeG-47 and NBeG-49 varieties FLD on ICM in Bengalgram Training on ICM in Bengalgram Supply of literature Field day
	Safflower	<ul style="list-style-type: none"> Low productivity due to cultivation of local variety Incidence of sucking pest Incidence of capsule borer 	35 ha	<ul style="list-style-type: none"> OFT on assessment of Annigeri-2020 and ISF-764 varieties Training on ICM in Safflower Supply of literature Field day
	Red Onion	<ul style="list-style-type: none"> Low productivity due to imbalanced nutrition Low productivity due to cultivation of low yielding 	120 ha.	<ul style="list-style-type: none"> OFT on Sulphur nutrition in Onion crop Training on ICM in Red Onion Supply of literature Field day

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		local variety • Incidence of thrips reduces the yields		
	Rabi Sorghum	• Low productivity due to usage of local variety • Incidence of smut disease • Incidence of shoot fly and stem borer	90 ha.	• FLD on ICM in Rabi Sorghum • Training on ICM in Rabi Sorghum • Supply of literature • Field day
	Drudgery	• Drudgery in farm activities	Majority of farm women	• Training on drudgery reducing equipments in farm activities
	Nutrition and health	• Less consumption of millets, fruits and vegetables in daily diet	85% families	• Training on health and nutrition, importance of millets in diet

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			
5.1	Bengalgram	<ul style="list-style-type: none"> Productivity of JAKI-9218 variety is low under irrigated condition 	Assessment of potential productivity of DBGV-204, NBeG-47 & NBeG-49 varieties	<u>Farmers' Practice</u> Cultivation of JAKI-9218 variety	-	-	-	-	5	38025	<ul style="list-style-type: none"> Height of the plant Duration of the crop No. of pods/plant Seed weight (100 No) Incidence of wilt Grain yield 	SMS (Agronomy)			
				<u>Technology Option-1</u> Cultivation of JAKI-9218 variety	UAS, Dharwad	Seeds (JAKI-9218)	20 Kg	1660							
				<u>Technology Option-2</u> Assessment of DBGV-204 variety	UAS, Dharwad	Seeds (DBGV-204)	20 Kg	1660							
				<u>Technology Option-3</u> Assessment of NBeG-47 variety	PJ TSAU and ICRISAT, Hyderabad	Seeds (NBeG-47)	20 Kg	1660							
				<u>Technology Option-3</u> Assessment of NBeG-49 variety		Seeds (NBeG-49)	20 Kg	1660							
				Other inputs											
				Rhizobium	100 ml	40									
				PSB	100 ml	40									
				Trichoderma	100 gm	25									
				Tebuconazole 25 Ec	100 ml	400									
Tebuconazole 50% + Trifloxistrabin 25%	50 gm	460													
Total								7605							

Sl. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of technology	Name of critical input	Qty per trial (q)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members				
5.2	Bunch Groundnut	Low productivity due to moisture stress caused by long dry spells	Assessment of TG-37 A & DGRMB-24 (drought tolerant varieties)	<u>Farmers' Practice</u> Cultivation of TMV-2 variety	UAS, Dharwad	Pods (GPBD-4)	40 Kg	3000	3 (Each trial 0.2 ha.)	27000	<ul style="list-style-type: none"> • Pod yield (Qtl/ha) • Number of pods/plant • Duration (Days) 	SMS (Agronomy)				
				<u>Technology Option-1</u> Cultivation of GPBD-4 variety												
				<u>Technology Option-2</u> Assessment of TG-37 A variety												
				<u>Technology Option-3</u> Assessment of DGRMB-24 variety												
							Total	9000								
5.3	Safflower	Low productivity due to cultivation of local variety	Assessment of ISF-764 and A-2020 varieties for higher productivity	<u>Farmers' Practice</u> Cultivation of A-1 variety (impure)	UAS, Dharwad	Seeds (A-1)	3.5 Kg	350	6	21780	<ul style="list-style-type: none"> • Yield (Qtl/ha) • Duration (Days) • No. of capsules per plant 	SMS (Ag. Extension)				
				<u>Technology Option-1</u> Cultivation of A-1 variety (pure seeds)												
				<u>Technology Option-2</u> Assessment of ISF-764 variety												
				<u>Technology Option-3</u> Assessment of A-2020 variety									UAS, Dharwad	Seeds (A-2020)	3.5 Kg	350
														Other inputs		
														Thiamethaxam 30 FS (seed treatment)	50 ml	200
Thiamethaxam 25 WG (Foliar spray)	100 gm	900														

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
						Emamectin Benzoate	200 gm	680				
						Sulphur	100 Kg	500				
						Zinc Sulphate	5 Kg	300				
						Total		3630				
5.4	White Onion	Low yield in Telagi White Onion variety	Assessment of White Onion varieties for higher productivity	<u>Farmers' Practice</u> Cultivation of Telagi White								
				<u>Technology Option</u> 1 Bhima Shubra	ICAR-DOGR, Pune	Seeds (Bhima Shubra)	2 Kg	5000	5	50000	<ul style="list-style-type: none"> •Yield (Qtl/ha) •Bulb weight (gms) •Resistance to pest and disease (%) 	SMS (Horticulture)
				<u>Technology Option</u> 2 Bhima Shweta	ICAR-DOGR, Pune	Seeds (Bhima Shweta)	2 Kg	5000				
						Total		10000				
5.5	Okra	Existing hybrids are low yielding and resulting in low income	Assessment of high yielding okra hybrids for higher productivity	<u>Farmers' Practice</u> Cultivation of private hybrids								
				<u>Technology Option</u> 1 CoBH-4	TNAU, Tamilnadu	Seeds CoBH-4	1 Kg	2500				
						Arka Vegetable Special	1Kg	200	3	16200	<ul style="list-style-type: none"> •Yield (Qtl/ha) and economics •PDI (%) •Plant height & Duration of the crop 	SMS (Horticulture)
				<u>Technology Option</u> 1 Arka Nikita	ICAR-IIHR, Bengaluru	Seeds Arka Nikita	1 Kg	2500				
						Arka Vegetable Special	1Kg	200				
						Total		5400				

Sl. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of technology	Name of critical input	Qty per trial (q)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members
5.6	Red Onion	Poor bulb quality and low productivity due to imbalanced nutrition	Assessment of Sulphur nutrition in Onion	<u>Farmers' Practice</u> Application of 80:57.5:0 NPK Kg/ha		Seeds (Bheema Super/ Arka Kalyan)	2 Kg	5000	3	46992	<ul style="list-style-type: none"> • Bulb Yield (Qtl./ha) • Duration (days) • Incidence of pest and disease (%) • Percentage of bulb rot • Keeping quality • Rate per quintal 	SMS (Soil Science)
				<u>Technology Option 1</u> Application of 125:75:125 NPK Kg/ha (RDF)	UAS, Dharwad & UHS, Bagalkot	Seeds (Bheema Super/ Arka Kalyan)	2 Kg	5000				
				<u>Technology Option 2</u> RDF + 20 Kg Sulphur / ha and Azospirillum and PSB @ 5 Kg each/ha	ICAR-DOGR, Pune	Seeds (Bheema Super/ Arka Kalyan)	2 Kg	5000				
						Azospirillum	2 Kg	200				
						PSB	2 Kg	200				
						Gypsum	66 Kg	264				
						Total		15664				
TOTAL		37000										
						Total of OFTs		199997				

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	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
6.1	Cereals	Maize+ Redgram	<ul style="list-style-type: none"> • Low yield due to monocropping • Incidence of Pod Fly & Pod Borer in Redgram crop • Incidence of fall army worm in Maize • Low market price for Redgram due to un-graded grains • Drudgery during threshing of Maize and cleaning of Redgram to farm women • Low price for ungraded grains 	Demonstration of Maize+ Redgram (4:2) intercropping system	Redgram : TS-3R	Maize: :CP-848	UAS, Dharwad	Seeds (TS-3R)	3 Kg	300	50	71150	<ul style="list-style-type: none"> • Yield (Qt/ha) • Seed weight • CEY 	SMS (Soil Science)
								CaCl ₂ @ 2%	100 gm	20				
								Rhizobium	200 gm	25				
								PSB	200 gm	25				
								Trichoderma	50 gm	10				
								Yellow sticky traps	8 nos.	468				
								Pulse magic	2 Kg	575				
								Total		1423				
Functional clothing kit	10 sets	3000	3000											
								Total				74150		

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	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
	Cereals	Rabi Sorghum	<ul style="list-style-type: none"> Low productivity in existing M 35-1 variety Moisture stress 	Demonstration of SPV-2217 variety in Rabi Sorghum crop	SPV-2217	-	UAS, Dharwad	Seeds (SPV-2217)	3 Kg	150	25	4625	<ul style="list-style-type: none"> Yield (Qtl/ha) % of lodging Organoleptic evaluation 	SMS (Agronomy) & SMS (Home Science)
							CaCl ₂	100 gm	20					
							Azospirillum	20 ml	5					
							PSB	20 ml	5					
							Trichoderma	15 gm	5					
							Total			185				
6.2	Millets													
6.3	Oilseeds													
6.4	Pulses	Greengram	<ul style="list-style-type: none"> Low yield due to usage of local variety Incidence of Yellow Mosaic virus Incidence of pod borer Incidence of Powdery Mildew 	Demonstration of DGGV-2 variety in Greengram crop	DGGV-2	-	UAS, Dharwad	Seeds (DGGV-2)	5 Kg	500	25	27250	<ul style="list-style-type: none"> Yield (Qtl/ha) No. of pods / plant Incidence of rust (%) 	SMS (Agronomy)
							PSB	200 gm	20					
							Rhizobium	200 gm	20					
							Pulse Magic	2 Kg	550					
							Total			1090				
6.5	Commercial crops													
6.6	Horticultural crops	Chrysanthemum	<ul style="list-style-type: none"> Low quality and low yields due to imbalanced nutrients (loose flower buds and improper opening of 	Integrated Crop Management in Chrysanthemum crop	Raja / Kurnool	-	ICAR-IIHR, Bengaluru	Neem Cake	40 Kg.	1000	20 (Each demo is of 0.2 ha.)	31000	<ul style="list-style-type: none"> Yield (Qtl/ha) Quality parameters 	SMS (Horticulture)
							Borax	1Kg	100					
							ZnSO ₄	1Kg	50					
							MgSO ₄	2Kg	100					
							Yellow sticky traps	5	300					
							Total			1550				

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	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
			flower buds and low shelf life) • Low yield due to incidence of bud borer pest and leaf spot disease											
		Green Chilli	<ul style="list-style-type: none"> • Low productivity due to imbalanced nutrient application • High incidence of thrips, mites (Murda Complex) and fruit borer • Incidence of powdery mildew, leaf spot and Anthracnose 	Integrated Crop Management in Green Chilli	Nagavi Gidda kaayi	-	UHS, Bagalkot & IIHR, Bengaluru	Trichoderma viride	1 Kg	300	16	55680	<ul style="list-style-type: none"> • Yield (Qtl/ha) • Incidence of pest (Nos.) and disease (%) 	SMS (Horticulture)
							Neem cake	1 Qtl	2400					
							Arka Microbial Consortium	1 Kg	200					
							Arka vegetable special	1 Kg	200					
							Yellow sticky traps	6No.	380					
							Total			3480				
		Red Chilli	<ul style="list-style-type: none"> • Moisture stress during critical stage of crop growth • Non-availability 	IPDM in Byadagi Chilli	Byadagi dabbi and Byadagi kaddi	-	IIHR, Bengaluru and UAS, Dharwad	Trichoderma viride	2.5kg	750	15	49200	<ul style="list-style-type: none"> • Yield (Qtl/ha) • Disease index (%) • Pest incidence 	SMS (Horticulture)
							Yellow / Blue sticky traps	16	960					
							Neembicidine 3000 ppm	500 ml	250					
							Arka microbial consortium	0.5 Kg	120					

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	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
			<p>of quality and pure seeds of Byadagi dabbi and Byadagi kaddi</p> <ul style="list-style-type: none"> • High incidence of sucking pests leading to murda complex disease • High incidence of anthracnose disease • Lack of proper knowledge on ICM practices resulting in poor productivity and quality • Improper post-harvest management leading to high content of aflatoxin in pod 					Neem cake	50 Kg	1200				
									Total	3280				

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	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
	Horticultural crops	Vegetable Crop Cafeteria	Low productivity and income due to non-availability of improved vegetable varieties and less profit as farmers grow any of the vegetable crop	Introduction of new varieties in vegetable crops of ICAR-IIHR, Bengaluru	Ridgegourd- Arka Prasana French bean- Arka Arjun Dolichos Bean – Arka Amogh Amaranthus – Arka Samraksha Coriander – Arka Isha		IIHR, Bengaluru	Seeds of Ridgegourd	400 gm	900	10	43000	<ul style="list-style-type: none"> Yield (Qtl/ha) Income (Rs./ha) 	SMS (Horticulture)
							French bean	4 Kg	1500					
							Dolichos Bean	4 Kg	1500					
							Amaranthus	130 gm	100					
							Coriander	500 gm	300					
							TOTAL		4300					
6.7	Livestock	Milch Cattle	Low productivity of milk due to imbalanced feed and fodder and increased inter-calving period	Production of green fodder & feeding to animals to enhance milk yield	Hybrid Napier-DHN 6, Multicut Jowar-VH-988, Guinea grass, Rhodes grass, Signal grass: Lucerne, Stylosanthes Hamata 555 & Stylo Scabra		ICAR-IGFRI, RRS, Dharwad & UAS, Dharwad	CEREAL CROPS			10	44100	<ul style="list-style-type: none"> Milk yield/Cow / lactation 	Prog. Asst. (Animal Science)
							Hybrid Napier-DHN 6 slips	400 Nos.	800					
							Multicut – COFS-31	1.6 Kg	1280					
							Grazing guinea grass slips	300 Nos.	300					
							Rhodes grass slips	550 Nos.	550					
							Signal grass slips	250 Nos.	250					
							Fodder Oats	8.0 Kg	800					
							LEGUMES CROPS							
							Lucerne seeds	200 gm	160					
							Stylosanthes heamata 555	150 gm	60					
							Stylo Scabra	150 gm	60					

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	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
					seeds, Subabul K8/B-42 & Sesbania grandiflora & Fodder oats			seeds Cow pea	0.5 Kg	60				
								Subabul – K8/B-42	100 gm	40				
								Susbenia grandiflora	100 gm	50				
								Total		4410				
6.8	Fisheries													
6.9	Others	Solar drier	Unhygienic way of drying of Red chillies	Drying of Red chillies in solar drier and sunlight	-	-	M/s Raheja Solar Driers	<ul style="list-style-type: none"> Solar drier (40 Kg capacity) Analysis of Aflatoxin content 	1 2 samples	65000 6000	3	71000	<ul style="list-style-type: none"> Drying time (Hours) Quality parameters Aflatoxin content Whitening of chillies (%) 	SMS (Home Science)
	Medicinal plants	-	-	-	-	-	-	-	-	-	-	-	-	-
Total of FLDs												400005		

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

SI.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+Redgram	FLD	ICM in Maize+Redgram intercropping system	3	90	SMSs (Soil Science & Agronomy)
		Millet crops	Others	ICM in Little millet	1	30	SMSs (Home Science & Agronomy)
		Greengram	FLD	ICM in Greengram	2	50	SMSs (Agronomy)
		Safflower	OFT	ICM in ISF-764 variety of Safflower	2	50	SMS (Ag. Extension & Agronomy)
		Rabi Sorghum	FLD & others	ICM in Rabi Sorghum	3	90	SMSs (Ag. Extension & Agronomy)
		Bengalgram	OFT & FLD	ICM in Bengalgram	2	55	SMSs (Agronomy)
		Summer Groundnut	Others	ICM in Summer Groundnut	1	25	SMSs (Agronomy)
		Bunch Groundnut	OFT	ICM in Bunch Groundnut	1	25	SMSs (Agronomy)
		Fodder trees	Others	Planting of fodder trees on field bunds	1	15	Programme Assistant (Animal Husbandry)
7.2	Horticulture production	Red Onion	OFT, FLD & Others	ICM in Red Onion crop	3	75	SMSs (Horticulture) & Soil Science)
		White Onion	OFT	ICM in Bhima Shubra & Bhima Sweta varieties of White Onion crop	2	50	SMSs (Horticulture)
		Chilli	Others	ICM in Chilli crop	2	50	SMSs (Horticulture & Soil Science)
		Vegetable crops	FLD	ICM in vegetable crops	4	100	SMS (Horticulture)
		Flower crops	FLD & others	ICM in Chrysanthemum crop	2	50	SMS (Horticulture)
		Fruit crops	Others	Orchard management of fruit crops	2	50	SMS (Horticulture)

SI.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
		Dryland horticulture	Others	Promotion of dryland horticulture	2	50	SMS (Horticulture)
		Onion	Others	Usage of pre and post emergent herbicides to reduce the cost of cultivation	1	25	SMSs (Horticulture & Agronomy)
7.3	Livestock production	Animal nutrition in Dairy animals	FLD	<ul style="list-style-type: none"> Promotion of fodder production technologies for getting higher milk productivity in dairy animals Silage preparation and its importance 	2	50	Programme Assistant (Animal Husbandry)
		Poultry birds	Others	<ul style="list-style-type: none"> Scientific management of poultry birds 	1	30	Programme Assistant (Animal Husbandry)
7.4	Home Science	Nutrition	FLD	Importance of protective foods and Nutrition Garden	4	100	SMS (Home Science)
		Storage methods	OFT	Onion storage methods	3	50	SMS (Home Science)
		Drudgery	FLD	Drudgery reducing equipments	4	80	SMS (Home Science)
		Bio-fortified crops	Others	Importance of bio-fortified foods	4	50	SMS (Home Science)
7.5	Production of inputs at site	Organic input production & Organic farming	Others	Training on organic inputs production and usage in various crops	2	50	SMS (Soil Science)
7.6	Soil health and fertility	Soil health & fertility	Others	Soil fertility management in dryland area	6	200	SMSs (Soil Science & Agronomy)
7.7	PHT and value addition	Value addition	FLD	Training on ICM in millet crops and importance of millets in diet and its	5	150	SMSs (Home Science & Agronomy)

SI.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
				value addition			
			FLD	PHT in Chilli storage	3	50	SMS (Home Science)
			Others	PHT in millets – cleaning, grading, packing, labeling & marketing of millets & value addition	4	120	SMS (Home Science)
7.9	Capacity building/ group dynamics	Multiple Income Generating Activities	Others	Empowerment of women SHGs through multiple IGAs	3	100	SMS (Home Science)
		Capacity building	Others	Capacity building training & strengthening of SHGs	3	100	SMS (Home Science)
		Farmers' Interest Group	Others	Formation of FIG and Farmers Producer Organisation	4	120	SMS (Ag. Extension)
		Farmers' Producer Organisation	Others	Business plan development for FPOs	2	60	SMS (Ag. Extension)
		Integrated Farming System	Others	Integrated Farming System for FPO members	2	60	SMS (Ag. Extension)
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	Artificial recharging of groundwater through borewell	Others	Technology on recharging of ground water through borewell	3	75	SMSs (Soil Science & Agronomy)

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
		All field crops	Others	Usage of Organic Manure & Green Manure crops to enhance moisture holding capacity	2	50	SMSs (Soil Science & Agronomy)
Total					91	2375	

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	Dairy enterprise	-	Skill upgradation training on dairy management practices	4	100	Programme Assistant (Animal Husbandry)
		Poultry	-	Scientific management of poultry birds	1	25	Programme Assistant (Animal Husbandry)
		Sheep & Goat	-	Feed and endo-ecto parasite management in sheep and goat	2	40	Programme Assistant (Animal Husbandry)
8.4	Home Science	Health and Nutrition	FLD	Health, nutrition and importance of Nutrition Garden	4	100	SMS (Home Science)
8.5	Plant protection						
8.6	Production of inputs at site	Jeevamruta production	Other	Jeevamruta preparation & usage	1	20	SMS (Soil Science)
8.7	Soil health and fertility	Soil health and fertility	Other	Soil health enhancement in dryland area through Organic input production	1	25	SMS (Soil Science)

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
8.8	PHT and value addition	Value addition	Others	Value addition in cereals, pulses, millets, fruits & vegetables	1	20	SMS (Home Science)
8.9	Capacity building/ group dynamics	All crops	Others	Entrepreneurship development in crops and enterprise	2	60	SMS (Ag. Extension)
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						
			Total		16	390	

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 and intercropping system in pulses, oilseeds & commercial crops	1	25	SMSs (Agronomy & Soil Science)
		Production & usage of organic inputs	1	25	SMS (Soil Science)
9.2	Home Science				
	Deficiency diseases	Iron rich foods and iron deficiency diseases	8	275	SMS (Home Science)
		Nutrition Garden – It's importance and layout			
9.3	Capacity building and group dynamics	Formation and functioning of Farmers' Producer Organisation	1	30	SMS (Ag. Extension)

Sl.No.	Thematic area and the crop/enterprise	Training title	No. of courses	Expected No. of participants	Names of the team members involved
		Design, layout and conducting front line demonstrations for ATMA staff	1	10	SMS (Ag. Extension)
9.4	Horticulture				
9.5	Livestock production and management	Nutrition and disease management	1	30	Programme Assistant (Animal Husbandry)
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				
	Soil fertility	Importance of soil testing and soil fertility management	1	25	SMS (Soil Science)
		Total	14	420	

10. Vocational trainings during 2020-21

Sl.No.	Thematic area and the crop/enterprise	Training title	No. of programmes	Duration (days)	Expected No. of participants	Sponsoring agency, if any	Names of the team members involved
10.1	Crop production						
10.2	Home Science						
10.3	Capacity building and group Dynamics						
10.4	Horticulture						
10.5	Livestock production and management	Scientific management of dairy animals	2	10	60	RSETI, ASF, ZP etc	Programme Assistant (Animal Husbandry)

SI.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
		Scientific management of sheep and goat	2	3	75	AH & VS Dept., ASF, ZP etc	Programme Assistant (Animal Husbandry)
		Scientific management of poultry birds	1	3	30	AH & VS Dept., ASF, ZP etc	Programme Assistant (Animal Husbandry)
10.6	Plant protection						
10.7	Farm mechanization						
10.8	PHT and value addition						
10.9	Production of inputs at site						
10.10	Sericulture						
10.11	Fisheries						
10.12	Other, pl. specify						
		Total	5	16	165		

11. Sponsored trainings during 2021-22

SI.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 technology for Kharif and Rabi crops	5	3	150	KSDA	SMS (Agronomy & Soil Science)
11.2	Home Science						
11.3	Capacity building and group Dynamics						
11.4	Horticulture						
11.5	Livestock production and management						
11.6	Plant protection						

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
11.7	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						
	Soil fertility management	Soil, water & crop management in command area	15	2	450	CADA	SMSs (Agronomy, & Soil Science)
		Total	20		600		

12. Extension activities during 2020-21

Sl. No.	Extension activity	No. of activities	Targeted number of participants	Names of the team members involved
12.1	Advisory services	1500	1500	All staff
12.2	Diagnostic visits	20	50	SMSs (Agronomy & Horticulture)
12.3	Field days	12	1000	All staff
12.4	Group discussions	10	150	All staff
12.5	Kisan gosthies	2	200	All staff
12.6	Film shows	10	410	All staff
12.7	Self -Help Groups (SHGs) meetings	10	200	SMS (Home Science)
12.8	Kisan Melas	1	400	SMS (Ag. Extension)
12.9	Exhibitions	3	12000	All staff
12.10	Scientists' visit to farmers' fields	200	900	All staff
12.11	Plant/soil health/animal health camps	5	450	All staff
12.12	Farm science club meetings (FIG)	5	150	SMS (Ag. Extension)
12.13	Ex-trainees sammelanas (Meetings)	2	100	SMS (Ag. Extension)
12.14	Farmers' seminars/workshops	2	250	SMS (Ag. Extension)
12.15	Method demonstrations	30	950	All staff

Sl. No.	Extension activity	No. of activities	Targeted number of participants	Names of the team members involved
12.16	Celebration of important days	10	1000	All staff
12.17	Special day celebrations	1	100	All staff
12.18	Exposure visits	10	300	All staff
12.19	Technology week celebration	1	2500	All staff
12.20	Farm innovators' meet	1	20	SMS (Ag. Extension)
12.21	Awareness programmes	30	1500	SMS (Ag. Extension)
12.22	Pre-kharif campaign	10	300	SMS (Agronomy)
12.23	Pre-rabi/summer campaign	10	355	SMS (Agronomy)
12.24	Others, pl. specify			
12.25	Lectures delivered as resource persons	15	2500	All staff
	News paper coverage	35	-	All staff
	Radio talks	4	-	All staff
	TV Talks	3	-	All staff
	Popular articles	5	-	All staff
	Bi-monthly meeting	5	50	All staff
	Animal health camp	2	100	Programme Assistant (Animal Husbandry)
	Total	1954	27413	

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	Pulse crops and their inter crops	6 ha.	1000	SMS (Agronomy) & Prog. Asst.(Farms)
13.1.2	Demonstration units	• Value addition in Amla, Mango & Karounda	-	500 farmers/ farm women visit to the units	SMS (Home Science)
		• Mixed orchard of fruit crops – Mango & Cashew	8 ha.	1000 farmers/farm women visit to orchards	SMS (Horticulture)
13.1.3	Lab analytical services	• Soil, water & plant testing	-	1000 samples	SMS (Soil Science)
		• Identification of pest and disease	-	50 samples	SMS (Agronomy & Horticulture)

Sl. No.	Category	Details of technologies	Area (ha)	Number	Names of the team members involved
13.1.4	Technology week	Technologies relevant to Gadag district	-	8000-10000 farmers/farm women	All staff
13.1.5	Others, Pl. specify				

13.2 Technological products

Sl. No.	Category	Name of the production partner agency, if any	Name of the product	Quantity planned to be produced during 2021-22 (q)	Number planned to be produced during 2021-22	Names of the team members involved
13.2.1	Seeds	Farmers' FPOs	Onion	5	-	SMS(Horticulture) & Farm Manager
		Farmers' FPOs	Greengram	15	-	SMS(Agronomy) & Farm Manager
		Farmers' FPOs	Redgram	15		
		Farmers' FPOs	Bengalgram	30		
		Farmers' FPOs	Safflower	20		
		Farmers' FPOs	Rabi Sorghum	10		
13.2.2	Planting material		Mango	-	500	SMS(Horticulture) & Farm Manager
			Tamarind	-	600	
			Cashewnut	-	2000	
			Guava	-	500	
			Fodder crops / fodder slips	1	45000	Programme Assistant, (Animal Science) & Farm Manager
13.2.3	Bio-products		Vermicompost	200	-	SMS(Soil Science) & Farm Manager
			Vermiwash	500 lit	-	
			Earthworms	2.5	-	
			Azolla	2.5	-	
13.2.4	Livestock strains		Calves	-	2	Programme Assistant, (Animal Science) & Farm Manager
			Lambs	-	8	
			Kids	-	15	
13.2.5	Fish fingerlings					
13.2.6	Any other, pl specify		Pickles	8	-	SMS (Home Science) & Farm Manager
			Amla products	2	-	

13.3 Technological information

	Category	Technological capsules / Number	Names of the team members involved
13.3.1	Technology backstopping to line departments		
	Agriculture	<ul style="list-style-type: none"> • Role of macro & micro nutrients in crop production • In-situ soil & water conservation practices 	SMS (Soil Science)
		<ul style="list-style-type: none"> • Pod borer identification and management in Greengram • Groundnut leaf minor and leaf spot : Early identification and management • Maize Turcicum leaf blight identification and management • Bt. Cotton leaf reddening management • Bt. Cotton sucking pest management • Bt. Cotton Blackarm and Alternaria leaf spot disease identification and management • Bengalgram pod borer and wilt identification and management • Organic input preparation technology • Azolla cultivation 	SMS (Agronomy)
		<ul style="list-style-type: none"> • Chemical weed management • Seed priming with CaCl_2 for Rabi Sorghum • Opening of conservation furrow for moisture conservation • Compartment bunding for soil moisture conservation • Nipping in Bengalgram & Redgram and its importance • Contingent crop planning • Foliar spray of KNO_3 for drought tolerance 	SMS (Agronomy)
	Horticulture	<ul style="list-style-type: none"> • Onion thrips and purple blotch identification and management • Chilli murda complex identification and management • Weed management in Onion • Nutrient management in fruit crops • Orchard management in Cashew crop • ICM in Chrysanthemum • Chilli pest and disease management • Mango hopper and powdery mildew identification and management 	SMS (Horticulture)
	Animal Husbandry	<ul style="list-style-type: none"> • Scientific Dairy Management technologies 	Programme Assistant (Animal Husbandry)

	Category	Technological capsules / Number	Names of the team members involved
	Fisheries	-	-
	Others, pl. specify	<ul style="list-style-type: none"> • Nutrition & importance of Nutri-Garden 	SMS (Home Science)
13.3.2	Literature/publication	<u>Leaflets</u>	
		<ul style="list-style-type: none"> • Scientific Dairy Management 	Programme Assistant (Animal Husbandry)
		<ul style="list-style-type: none"> • Soil & water conservation measures for dry land agriculture 	SMS (Soil Science) & SMS (Agronomy)
		<ul style="list-style-type: none"> • Production technology in Greengram • Intercropping in Maize with Redgram • Integrated crop management in Bt. Cotton • Production technology in Groundnut • Production technology in Bengalgram • Production technology in Sunflower • Production technology in Safflower 	SMS (Agronomy) & SMS (Soil Science)
		<u>Krishi Vigyan Patrike</u>	
		<ul style="list-style-type: none"> • Importance & methods of soil and water testing • Soil & water conservation measures • Alternate land use systems • Role of nutrients for higher production 	SMS (Soil Science)
		<ul style="list-style-type: none"> • Production technologies in Onion • Tips on cultivation of onion & chilli • Weed management in onion • Onion seed production technology • Mango orchard management • Nutrient management in Mango • Post harvest management in Mango 	SMS (Horticulture)
		<ul style="list-style-type: none"> • Spiral separator • Importance & value addition in millets • Bio-fortified crops 	SMS (Home Science)
		<ul style="list-style-type: none"> • Compartment bunding for moisture conservation • Production technology of Maize • Paired row method of sowing in Groundnut 	SMS (Agronomy)

	Category	Technological capsules / Number	Names of the team members involved
		<ul style="list-style-type: none"> • Integrated nutrient management in Groundnut • Wider row method of sowing in Sunflower • Foliar spray of boron for seed setting in Sunflower • Detopping and its importance in Bengalgram • Paired row method of sowing in Rabi Sorghum • CaCl₂ seed priming & its importance in Rabi Sorghum 	
13.3.3	Electronic Media	<ul style="list-style-type: none"> • Demonstration on enrichment of dry fodder and azolla cultivation 	Programme Assistant (Animal Husbandry)
		<ul style="list-style-type: none"> • Dryland agronomic practices for <i>in-situ</i> moisture conservation 	SMS (Agronomy)
		<ul style="list-style-type: none"> • Nutrition garden 	SMS (Home Science)
13.3.4	Kisan Mobile Advisory Services	Soil Science aspects – 6 Nos.	SMS (Soil Science)
		Home Science aspects – 10 Nos.	SMS (Home Science)
		Horticulture crop – 10 Nos.	SMS (Horticulture)
		Field crops – 20 Nos.	SMS (Agronomy)
		Animal Science aspects – 15 Nos.	Programme Assistant (Animal Husbandry)
		Market information, Input availability & other messages – 20 Nos.	Programme Assistant (Computers)
13.3.5	Information on centre/state sector schemes and service providers in the district (Data may be collected from different agencies).	One booklet on both Centre and State Sector Schemes and Service Providers	SMS (Ag.Extension)

14. Additional activities planned during 2021-22

Sl. No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs. in lakh.)	Names of the team members involved
1	Nutri Garden	Nutritional security through Nutri garden	25	0.25	SMS (Home Science)
2	CFLDs on Pulses and Oilseeds	CFLDs in Greengram	50 hectares		SMS (Agronomy)
		CFLDs in Redram	50 hectares		SMS (Agronomy)
		CFLDs in Bengalgram	20 hectares		SMS (Agronomy)
		CFLDs in Summer Groundnut	20 hectares		SMS (Agronomy)

Details of Nutri Garden

Nutri Garden for year round nutritional security among farm families

Village : Shingatarayankeri (Mundaragi), Shirol (Gadag), Chikkasavanur (Shirahatti)

Problems	Technology to be demonstrated
<ul style="list-style-type: none"> Lack of awareness about nutrition & nutri garden Less consumption of vegetables due to high price of vegetables and fruits Lack of awareness on super foods 	<ul style="list-style-type: none"> Production of vegetables Planting of perennial nutritious plants Introduction of super foods like Chia and grain amaranth

Critical inputs	Qty / Demo	Cost / Demo	No. of Demo	Total cost (Rs.)	Parameters
Seeds & seedlings (Lime-Kagzi, Drumstick-PKM 1, Papaya-Solo, curry leaf-Suhasini, Guava-Lucknow 14 & Apple Ber)	02 unit	300	25	25000	<ul style="list-style-type: none"> • Quantity of vegetables produced (Kg) • Economics • Percent adequacy of vegetables
Vegetable seeds (Brinjal, Okra, Beans, Cucumber, Tomato, Chilli, Betroot, Carrot etc.)	200 gms	250			
Leafy vegetables (Amaranth, Palak, Dil, Coriander, Methi, Rajagiri etc.)	100 gms	250			
Bio-fertilisers	1 Kg	100			
Super foods (Chia & Grain Amaranth)	50 gms	100			
Barrel supported drip irrigation shall be provided at farmers' cost					
Total		1000			

14.B. EDP ON BYADAGI CHILLI

Byadagi Chilli is one of the important crop and is selected by Government of India under ODOP programme for Gadag district. The Byadagi Chilli is known for its flavour, colour and mild pungency and has got great demand in national and international market. Even then farmers sell the produce without value addition which fetches low price in the market. To get remunerative price for the produce and to promote chilli processing & value addition activities, the establishment of small and micro enterprise is very important. In this direction KVK proposed Entrepreneurship Development Programme on processing and value addition of Red Chilli.

Objectives

- 1) To promote and marketing of Chilli value added products
- 2) To promote entrepreneurship development among farm women and youth
- 3) To create additional income through EDP

Products to be prepared

- 1) Red Chilli powder
- 2) Masala Chilli powder
- 3) Chilli pickle
- 4) Methi chillies

Materials required

- | | |
|--|-----------|
| 1) Sealing machine | : Rs.3500 |
| 2) Weighing machine | : Rs.4000 |
| 3) Lab testing of products | : Rs.6000 |
| 4) Window pouches of 100 gms, 250 gms
(1000 Nos each) | : Rs.9000 |
| 5) Bottles for packing
Chilli pickle -250 Nos. | : Rs.2500 |
| 6) Labels | : Rs.5000 |

Total	: Rs.30000
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14.C**CFLD (CLUSTER FRONT LINE DEMONSTRATIONS)****i) Pulses :**

Sl. No.	Name of the crop	No. of demonstrations	Area (ha)
Kharif 2021-22			
1	Greengram	25	10
Rabi 2021-22			
3	Bengalgram	25	10
Total		50	20

ii) Oilseeds :

Sl. No.	Name of the crop	No. of demonstrations	Area (ha)
Summer 2021-22			
1	Groundnut	50	20

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)
3.68	12.67	9.82	0.83	3.00

15.2 Plan of activities under revolving fund during 2021-22

Sl. No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
1	Production of pickles and amla products	10 Qtls	120000	SMS (Home Science) & Farm Manager
2	Onion seed production	5 Qtls	200000	SMS (Horticulture) & Farm Manager
3	Mango grafts	500 Nos.	5000	SMS (Horticulture) & Farm Manager
4	Tamarind grafts	600 Nos.	6000	SMS (Horticulture) & Farm Manager
5	Cashewnut grafts	2000 Nos.	40000	SMS (Horticulture) & Farm Manager
6	Vermicompost production	20 ton	80000	SMS (Soil Science) & Farm Manager
7	Vermiwash	500 liters	20000	SMS (Soil Science) & Farm Manager
8	Earthworms	2.5 Qtls	75000	SMS (Soil Science) & Farm Manager
9	Milk production	3600 liters	126000	Programme Assistant (Animal Science) & Farm Manager
10	Calves, Lamb & kids production	25 Nos.	75000	Programme Assistant (Animal Science) & Farm Manager

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	1000	SMS (Soil Science)
16.2	Soil test using mobile analysis kit	300	SMS (Soil Science)
16.3	Water	500	SMS (Soil Science)
16.4	Plant	0	-
16.5	Others, pl. specify		

17. E-linkage during 2020-21

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	Entering data every week	Already maintained
17.3	Any other (Please specify)		
	KVK Knowledge network portal	Updating events every week	-
		Updating MPR and AE MPR every month	

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

Sl. No	Activities planned	Remarks if any
1	Training to farmers and farm women on rain water harvesting (7 programmes, 210 participants)	-
2	Training to extension functionaries on rain water harvesting (1 programme, 25 participants)	-
3	Facilitation for conservation of rain water harvesting through borewell and openwells (5 Nos.)	-

19. Farmers Field School (FFS) planned : NIL

Thematic area	Title of the FFS	Budget proposed in Rs.
-	-	-

20. Integrated Farming System (IFS) planned : NIL

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

21. Virtual Farmers School (VFS) planned :

Introduction : COVID-19 pandemic has turned the World upside-down and it has become very difficult to reach the farming community and deliver the advisories. It has become inevitable for organization like KVK to adopt alternate ways of technology dissemination during the period of pandemic using the digital technologies. In this context, KVK Gadag proposes to conduct two “Virtual Field School” in Mango crop which is the important commercial crop of Gadag district.

Objectives of Virtual Field School :

- To disseminate knowledge in different phases on production process of Integrated Crop Management Practices in Red Chilli and Mango through live streaming.
- To promote learning on real time basis on actual field situation through virtual means.
- To create a forum for interaction between Scientists and Chilli and Mango Growers for solving field level problems on real time basis.

Process of conducting Virtual Farmers School (VFS) :

- Selection of progressive one Mango Growing Farmer as a Facilitator for the field school
- Selection of Mango Growers having Android mobile phone as students for the field school
- Prioritization of problems affecting the productivity
- Conductance of Live streaming of virtual technical sessions in field school and video recording of each session
- Documentation of activities and feedback from each session

Technical Sessions planned for Virtual Farmers School (VFS) on ICM in Mango crop :

Sl. No	Details of the session	Month
1	Sanitation of orchard, pruning and fertilizer application	June, 2021
2	Management of shoot weevil, borer and stem borer	July, 2021
3	Management of foliage diseases (powdery mildew, rust etc.)	August-September, 2021
4	Management of plant hoppers and micronutrient spray	October, 2021
5	Management of sucking pests	(i) December, 2021 (ii) January, 2022
6	Management of blossom end rot, fruit fly and micronutrient application and irrigation management	March, 2022
7	Post harvest management of Mango fruits	April to May, 2022

Budget for conductance of Virtual Farmers School (VFS) Sessions :

Sl. No	Particulars	Amount (Rs.)
<u>VFS on ICM in Mango crop</u>		
1	Critical inputs for conducting ICM in Mango crop (0.2 hectares)	7500
2	FFS Kit	2000
3	Literature / reading material for 20 Mango Growers	2500
4	Stationary, POL and other expenditure	8000
5	Live streaming equipments expenditure	10000
TOTAL BUDGET		30000

21. Details of budget utilization (2020-21)

(Rs.)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	20262127	20262127	20262127
2	Traveling allowances	78000	78000	78000
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	290000	290000	290000
B	POL, repair of vehicles, tractor and equipments	334000	334000	334000
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	100000	100000	100000
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	50000	50000	50000
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	283000	283000	283000
F	On Farm Testing (on need based, location specific and newly generated information in the major production systems of the area)	136000	136000	136000
G	Integrated Farming System	0	0	0
H	Training of Extension Functionaries	25000	25000	25000
I	Extension activities	41000	41000	41000
I	EDP / Innovative activities	30000	30000	30000
J	Maintenance of buildings	50000	50000	50000
K	Establishment of Soil, Plant & Water Testing Laboratory and issue of Soil Health Cards	25000	25000	25000
M	Nutri Garden	25000	25000	25000
N	Library Maintenance	10000	10000	10000
TOTAL (A)		21739127	21739127	21739127
B. Non-Recurring Contingencies				
1	Works	0	0	0
2	Equipments including SWTL & Furniture	243000	243000	243000
3	Vehicle (Four wheeler/Two wheeler, please specify)	0	0	0
4	Library (Purchase of assets like books & journals)	0	0	0
TOTAL (B)		0	0	0
C. REVOLVING FUND		0	0	0
GRAND TOTAL (A+B+C)		21982127	21982127	21982127

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	21586000
22.1.2	Traveling allowances	100000
22.1.3	Contingencies	
22.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	250000
22.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	100000
22.1.3.c	<i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i>	100000
22.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	50000
22.1.3.e	<i>Frontline demonstrations</i>	400000
22.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	200000
22.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0
22.1.3.h	<i>Training of extension functionaries</i>	50000
22.1.3.i	<i>Extension activities/services</i>	50000
22.1.3.j	<i>Farmers' Field School</i>	0
22.1.3.k	<i>EDP (2 Nos.) / innovative activities</i>	60000
22.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	50000
22.1.3.m	<i>Maintenance of building</i>	0
22.1.3.n	<i>Library (Purchase of Journals, Periodicals, News Papers& Magazines)</i>	10000
22.1.3.o	<i>Nutri Garden</i>	25000
	Total Recurring (A)	23031000
22.2	(B). CAPITAL (Non-Recurring Contingencies)	
22.2.1	Equipments& Furniture	
22.2.2	Works (Hostel building repair works)	900000
22.2.3	Vehicle	
22.2.4	Library	
	Total Non Recurring (B)	900000
	Grand Total (A + B)	23931000

-:O:-