

## ACTION PLAN ICAR OF KRISHI VIGYAN KENDRA, VIJAYAPURA-II (INDI) FOR THE YEAR-2019-20

### 1. General information about the KrishiVigyan Kendra

1.1	Name and address of KVK with phone, fax and e-mail ID	:	ICAR – Krishi Vigyan Kendra, Vijayapura II (Indi), Station road, Indi Phone : 08359-225666 Fax : 08359-225666 Email: <a href="mailto:kvkindi2016@gmail.com">kvkindi2016@gmail.com</a> <a href="mailto:kvkindi@uasd.in">kvkindi@uasd.in</a>
1.2	Name and address of host organization	:	University of Agricultural Sciences, Krishi Nagar, Dharwad-05 Phone : 0836-2447494 Fax : 0836-2748199 Email : <a href="mailto:deuasd@redifmail.com">deuasd@redifmail.com</a>
1.3	Year of sanction	:	2016 (28th September)
1.4	Website address of KVK and date of last update	:	-----

### 2. Details of staff as on date 31-03-2019

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	37,400-67000	9000	18-08-2017	
2.2	Subject Matter Specialist	Dr.Savita, B.,	Soil Science	15600-39100	6000	21-02-2017	
2.3	Subject Matter Specialist	Dr. Santosh Shinde	Animal Science	15600-39100	6000	12-04-2017	
2.4	Subject Matter Specialist	Mrs.Heena, M.S.	Horticulture	15600-39100	6000	24-07-2017	
2.5	Subject Matter Specialist	Dr.Ravi, Y.	Home Science	15600-39100	6000	24-07-2017	
2.6	Subject Matter Specialist	Dr. Syeda Samina Anjum	Plant Pathology	15600-39100	6000	28-07-2017	
2.7	Subject Matter Specialist	Vacant					
2.8	Programme Assistant (Lab Assistant)	Geeta Fulari	B.Sc.(Horticulture)			20-11-2018	Temporary 13500/-
2.9	ProgrammeAssistant (Computer Programmer)	Mr. Manjangowda B.C	MCA			04-12-2017	Temporary 13500/-
2.10	Programme Assistant	Chaitra L Patil	M. Sc ( Extension	13500/-		16-11-2018	Temporary

	(Farm Manager)		Education)				13500/-
2.11	Accountant/Superintendent	Miss. Shilparani	Diploma in Agriculture	30350-58250		07-08-2017	
2.12	Stenographer	vacant					
2.13	Driver 1	Anilkumar Indi	SSLC	11600/-			Temporary 13500/-
2.14	Driver 2	Mr. ChandrakantDasharath	SSLC	21400-42000		20-05-2017	
2.15	Supporting staff 1	Mr. ShivappaSharanappaBagali	6 <sup>th</sup> Class	17000-28950		04-09-2017	
2.16	Supporting staff 2	vacant					

### 3. Details of SAC meeting conducted during 2018-19

Date	Major recommendations	Status of action taken in brief	Reasons for no actions, if any
11.06-2018	Farmers participated in the meeting suggested to organize training and demonstration on GRG-811 red gram variety as it is performing quite good in Indi and Sindhagi taluk and try to provide seeds of the same during next year.	Organized training programme and demonstration on GRG-811 red gram variety. Seeds are available with farmers.	
	In Sindagi and Indi areas wilt disease is appearing in a larger area. Hence, demonstration can be taken in these areas.	Demonstrations on management of wilt and dry root rot in pigeon pea crop were conducted Korahalli and Golageri.	
	Training and Demonstration on use of honey bees in lime for increasing pollination in order to increase yield is to be planned.		Will be taken up during March, 2019. As the bee hives are available in March for sale
	In collaboration with local Forest officers raising of seedlings of Sandal wood, silver oak, <i>Meliadubia</i> and <i>Rakthachandana</i> needs to be planned and training on the same may be organized during June.	Training was organized on 23.07.2018 on profitable agro-forestry.	
	Training should be conducted to FPO farmers of Indi taluk on lime, grape and pomegranate production technology.		During March trainings to FPO farmers of Indi and Sindagi will be taken up.
	Suggested to provide agri tips once in 15 days through Newspapers and the same may be provided in bi monthly routines.	Agri tips are being sent to daily newspapers once in 15 days.	
	Different varieties of Drumstick are to be planted in instructional farm of KVK, Indi to give information to the farmers.		As drumstick is highly cross pollinated crop. Hence, larger isolation distance is required.
	Transplanting method of red gram cultivation needs to be Popularized.	Transplanting method of red gram was demonstration at Korahalli village.	

	As the pomegranate area is more in the district, so the recent technology of management of bacterial leaf blight of pomegranate needs to be demonstrated in the farmers field and field day should be organized on the same.	Demonstration and management of bacterial leaf blight of pomegranate was taken up at Battagunki village and also Field day was conducted.	
	Interaction between farmers and bank officers should be arranged in order to give information on available bank facilities to the farmers on pomegranate, lime and grape crops as these are the commercial horticulture crops.		Bank officials are refusing our request regarding giving lecture on facilities available to the farmers on different horticulture crops.
	As lime is a perennial crop in order to get good prices to farmer's seasonality index needs to be developed, Bahar management in order to get more yield during off season.	Seasonality index on lime was developed and the Bahar management demonstration demonstrated.	
	Number of on campus and off campus training needs to be increased and preference should be given to goat farming and dairy farming.	Number of on campus and off campus trainings was enhanced and training on poultry and scientific sheep and goat farming were conducted. Bank officials were invited to give details of bank facilities regarding animal husbandry activities.	
	Value addition needs to be emphasized on different crops of the region so as to get more prices.	Trainings on value addition was conducted.	
	Demonstration units on lime, drumstick and other important crops of the region are established in KVK instructional farm.	Lime, drumstick and pomegranate seedlings are planted in KVK instructional farm.	

#### 4. Details of operational areas proposed during 2019-20(Please refer to the implementation plan of DFI)

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 Baragudi- village	Sugarcane- 500 ha Redgram -250 ha Chickpea - 100 ha Sorghum - 80 ha Maize (K) - 80 ha Wheat - 40 ha Groundnut -25 ha Onion - 15 ha Lime - 10ha Chilli -8ha	<ul style="list-style-type: none"> <li>• <b>Sugarcane:</b> Closure spacing, Irrigation through flooding, weeds (striga), red rot, smut, root grub, wooly aphid infestation and high cost of production.</li> <li>• <b>Red gram :</b>Lack of high yielding and wilt tolerant/resistant variety, Pod borer , pod fly , wilt and SMD</li> <li>• <b>Chickpea:</b> Non availability of high yielding wilt/dry root rot tolerant varieties and pod borer menace</li> </ul>	500 ha  250 ha  100 ha  80 ha	FLD,OFT, Training Programmes, Method demonstrations, Field Visits, field days etc.,

	Grape – 07ha Watermelon -5ha Tomato -3ha	<ul style="list-style-type: none"> <li>• <b>Sorghum:</b> Moisture stress, lodging, low yielding varieties and weed problem</li> <li>• <b>Maize:</b> Fall army worm incidence, Non application of micronutrients.</li> <li>• <b>Wheat :</b>Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight</li> <li>• <b>Groundnut:</b> non availability of High yielding varieties, Improper pod filling, sucking pests Leaf miner and Tikka disease</li> <li>• <b>Onion</b> Low yield due to local varieties, purple blotch and thrips incidence and rotting</li> <li>• <b>Lime :</b> Canker, Gummosis, wilt and sucking pest, Non application of micronutrients, less fruits in summer, Unaware of value addition, branding and market.</li> <li>• <b>Chilli :</b>Incidence of murda complex and root knot nematode, powdery mildew, unaware of high yielding public hybrids</li> <li>• <b>Grapes:</b> Stem borer, non-application of micronutrients</li> <li>• <b>Water melon :</b> Flower drop and Fruit cracking, Low TSS, Sucking pests</li> <li>• <b>Tomato:</b>Non adoption of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt</li> </ul>	80 ha 40 ha 25 ha 15 ha 10 ha 08 ha 07 ha 5 ha 3ha	
	Livestock	<ul style="list-style-type: none"> <li>• Lack of fodder resources</li> <li>• Low conception rate</li> <li>• Low milk yield</li> <li>• Mastitis</li> <li>• Low body weight gain in small ruminants</li> <li>• Scarcity of fodder during summer</li> <li>• High cost for kids</li> <li>• Lack of knowledge on silage and dry fodder enrichment</li> </ul>	-	FLD,OFT, Training Programmes, Method demonstrations, Field Visits
Sindagi-BlockHachyal village	Maize - 200 ha Redgram - 100 ha Wheat - 60 ha Chickpea - 50 ha Cotton - 25 ha Ground nut – 25 ha	<ul style="list-style-type: none"> <li>• <b>Maize:</b> Fall army worm incidence, Non application of micronutrients</li> <li>• <b>Red gram :</b>Lack of high yielding and wilt resistant variety, Pod borer , pod fly , Wilt and SMD</li> <li>• <b>Wheat :</b>Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight</li> </ul>	200 ha 100 ha 60 ha	FLD,OFT, Training Programmes, Method demonstrations, Field Visits

	<p>Onion -250ha Lime - 40 ha</p> <p>Pomegranate - 10 ha Grape - 08 ha Vegetables - 04 ha (Cluster bean, Tomato, Chilli, Okra)</p>	<ul style="list-style-type: none"> <li>• <b>Chickpea:</b> Non availability of high yielding wilt tolerant varieties and pod borer menace</li> <li>• <b>Cotton :</b>Leaf reddening, pink boll worm, sucking pest</li> <li>• <b>Groundnut:</b> non availability of High yielding varieties, Improper pod filling, sucking pests Leaf miner and Tikka disease</li> <li>• <b>Onion:</b> Non availability of improved variety and Low yield due to local varieties, purple blotch and thrips incidence and rotting</li> <li>• <b>Lime :</b> Canker, Gummosis, wilt and sucking pest, Non application of micronutrients less fruits in summer, Unaware of value addition, branding and market in Lime.</li> <li>• <b>Pomegranate:</b> Bacterial Blight, Wilt and fruit sucking moth</li> <li>• <b>Grape :</b>Non application of micronutrients, mummification, Stem borer, powdery mildew and downy mildew</li> <li>• <b>Chilli :</b>Incidence of murda complex and root knot nematode, powdery mildew, Lack of high yielding public hybrids, <b>Tomato:</b>Non adoption of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt</li> </ul>	<p>50 ha</p> <p>25 ha</p> <p>25 ha</p> <p>25 ha</p> <p>250 ha</p> <p>40 ha</p> <p>08 ha</p> <p>04ha</p>	
	Livestock	<ul style="list-style-type: none"> <li>• Low milk yield</li> <li>• Low body weight gain in small ruminants</li> <li>• Scarcity of fodder during summer</li> <li>• Lack of knowledge on silage and dry fodder enrichment</li> <li>• Lack of awareness on composite fish farming in storage ponds</li> <li>• Lower yield in fish farming</li> </ul>	-	FLD,OFT, Training Programmes, Method demonstrations, Field Visits

Chadachan block Dhulkhed village	Sugarcane- 800 ha Wheat -280 ha Chickpea - 240 ha Maize (K) - 200 ha Redgram - 60 ha Sorghum - 40 ha Lime - 10 ha Grape - 8 ha Pomegranate - 6 ha	<ul style="list-style-type: none"> <li>• <b>Sugarcane:</b> Closure spacing, Irrigation through flooding, weed, red rot, smut, root grub, wooly aphid infestation and higher cost of production.</li> <li>• <b>Wheat :</b>Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight</li> <li>• <b>Chickpea:</b> Non availability of high yielding wilt tolerant varieties and pod borer menace</li> <li>• <b>Maize :</b>Fall army worm, non-application of micronutrients.</li> <li>• <b>Red gram :</b>Lack of high yielding and wilt resistant variety, Pod borer , pod fly , wilt and SMD</li> <li>• <b>Sorghum:</b> Moisture stress, lodging, low yielding varieties and weed problem</li> <li>• <b>Lime :</b> Canker, Gummosis, wilt and sucking pest, Non application of micronutrients less fruits in summer, Unaware of value addition, branding and market in Lime</li> <li>• <b>Grape :</b>Non application of micronutrients, Stem borer powdery mildew and downy mildew</li> <li>• <b>Pomegranate:</b> Bacterial Blight, Wilt and fruit sucking moth</li> </ul>	800 ha  280 ha  240 ha  200 ha  60 ha  40 ha  10 ha  08 ha  6 ha	FLD,OFT, Training Programmes, Method demonstrations, Field Visits, field days
	Livestock	<ul style="list-style-type: none"> <li>• Lack of fodder resources</li> <li>• Low milk yield</li> <li>• Mastitis</li> <li>• Scarcity of fodder during summer</li> <li>• High cost for kids</li> <li>• Lack of knowledge on silage and dry fodder enrichment</li> <li>• Lower yield in fish farming</li> </ul>	-	FLD,OFT, Training Programmes, Method demonstrations, Field Visits
DevaraHipparagi block Mulasawalgi village	Redgram -1340 ha Sorghum - 450 ha Wheat - 270 ha Chickpea -100 ha Maize (K) - 80 ha Lime -120ha Onion - 40ha Grape - 16 ha Pomegranate - 12 ha Vegetables - 3 ha	<ul style="list-style-type: none"> <li>• <b>Red gram :</b>Lack of high yielding and wilt resistant variety, Pod borer , pod fly , Wilt and SMD</li> <li>• <b>Sorghum:</b> Moisture stress, lodging, low yielding varieties and weed problem</li> <li>• <b>Wheat :</b>Non availability of high yielding varieties public varieties, lodging, Rust and leaf blight</li> <li>• <b>Chickpea:</b> Non availability of high yielding wilt/dry root rot tolerant varieties and pod borer menace</li> <li>• <b>Maize :</b>Fall army worm, Non application of micronutrients,</li> <li>• <b>Lime :</b> Canker, Gummosis, wilt and sucking pest,</li> </ul>	1340 ha  450 ha  270 ha  100 ha  80 ha  120 ha	FLD,OFT, Training Programmes, Method demonstrations, Field visits, field days and EDP

		<p>Non application of micronutrients less fruits in summer, Unaware of value addition, branding and market in Lime</p> <ul style="list-style-type: none"> <li>• <b>Onion:</b> Non availability of improved variety and Low yield due to local varieties, purple blotch and thrips incidence and rotting</li> <li>• <b>Grape :</b>Non application of micronutrients, Stem borer powdery mildew and downy mildew</li> <li>• <b>Pomegranate :</b>Bacterial blight, wilt, sucking pest, unaware of grading and processing</li> <li>• <b>Tomato:</b>Non adoption of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt</li> </ul>	40 ha 16ha 12ha 3 ha	
	Livestock	<ul style="list-style-type: none"> <li>• Lack of fodder resources</li> <li>• Low milk yield</li> <li>• Scarcity of fodder during summer</li> <li>• High cost for kids</li> <li>• Lack of knowledge on silage and dry fodder enrichment</li> </ul>	-	FLD,OFT, Training Programmes, Method demonstrations, Field Visits

### 5. Technology assessment during 2019-20

Sl.No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of technology	Name of critical input	Qty per trial (q)	Cost per trial (Rs.)	No. of trials	Total cost (Rs.)	Parameters to be studied	Team members
5.1	Chilli	Low yield, inferior quality, private hybrids, pest and disease incidence	Assessment of Chilli hybrids for yield potential and disease resistance	TO1(FP): Jwala TO2( RPP): Arka Meghan TO3( AP) : Arka Khyati	IIHR, Bangalore	Seeds and vegetable special	50g 2kg	2000	07	14000	Fruit length (cm) Weight of 10 fruits (g) PDI (%) Yield and economics	Horticulture, Plant Protection, SS&H and Home Science
5.2	Onion	Non-application of sulphur, 15-20 % of storage losses	Assessment of Sulphur application in onion	TO1:Farmer practice TO2: NPKS @ : 110:40:60:20 kg / ha and <i>Azospirillum</i> and PSB @ 5 kg each/ha	.. DOGR, Pune	Sulphur <i>Azospirillum</i> <i>Azotobactor</i> PSB	12.5 kg 1 kg 1kg 2 kg	2550	8	20,400	Soil test before & after application (including sulphur), fresh weight	Soil Science, Horticulture, SS&H Home Science

				TO3 : NPKS @ 100:50:50:30 kg/ha and <i>Azotabactor</i> and PSB @ 5 kg each/ha	NHRDF, Nasik						of onion (g), dry weight of onion (g), bulb diameter (cm), yield (q/ha), shelf life (days) and B:C	
5.3	Chickpea	Dry root rot/wilt	Assessment of chickpea varieties for wilt and dry root rot	TO1: FP: Annigeri	FP	JG-11 BGD103	10kg 10kg 10kg	1600	8	12800	Germination percent, disease incidence and yield	Plant Protection, SS & H (Agronomy), soil science
				TO2:RP: JG-11	UAS-D							
				TO3: RP= BGD103	UAS-R							
				TO4: RP= NBeG-47	ANGRAU, Nandyal							
5.4	Pomegranate	Wilt incidence	Wilt management in Pomegranate	TO1= COC 0.2% drenching								
				TO2= Carbendazim 50WP @2g/lit + Chlorophyriphos 20EC@4ml/litre drenching in the month of may-june and november-december	UHS Bagalkot	Chloropyriphos Carbendazim <i>Trichoderma</i> <i>Pseudomonas</i> <i>Paecilomyces</i> Propiconazole Formalin	2 liter 1kg 4 kg 4kg 4kg	6110	3	18330	Wilt incidence, Stem borer %,Fruits/plant	Plant Protection, Horticulture, SS & H (Agronomy)
				TO3= Application of <i>Trichoderma</i> + <i>Pseudomonas</i> + <i>Paecilomyces</i> and FYM @ 15-20g/plant. Propiconazole@1ml/litre water drenching around plants	NRC, Pomegranate, Solapur							
5.5	Livestock	High incidence of goat kids	Assessment of different approaches to reduce	TO 1: Farmers Practice					06 (04 goats per	18000/-	Incidence of kids mortality (%), Body	Scientist (Animal Science), Soil Scientist



		mortality, Reduced weight gain	neonatal mortality and enhance of body weight in goats							demo )		weight gain (Kg)	SS&H
				TO 2: Albendazole+Livertonics	CIRG, Makdhoom	Tinct. Iodine Albendazole Livertonics	100 ml -- 2lt	75 150 700					
				TO3: Albendazole and oxyclozanide/ivermectin+ Livertonics + mineral supplements	KVAFSU, Bidar	Tinct. Iodine Albendazole oxyclozanide/ivermectin Livertonics Mineral supplements	100 ml - 2lt 5 kg	75 300 700 1000					
								3000					
5.6	Groundnut		Assessment of high yielding varieties of Groundnut during summer	TO1: FP / RPP TO2:AP TO3: AP	UASD UASR UASB	Seeds	25 kg	7500	5		37,500	Days to maturity, No of pods per plant, Shelling percent, Yield and economics	SS&H, Plant Protection, Home science

### 6. Frontline demonstrations during 2019-20

Sl.No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Name of variety	Name of hybrid	Source of technology	Name of critical input	Qty per demo (q)	Cost per demo (Rs.)	No. of demos	Total cost for the demo (Rs.)	Parameters to be studied	Team members
6.1	Cereals	Maize	Incidence of fall army worm, 60-75% crop damages	<b>Fall army worm management</b> : Sleeve Traps @ 12 no. per	--	--	UAS, Dharwad	Sleeve Traps Emamectin benzoate Metarhiziumanisoplaea Bacillus thuringensis	12 no. 80g 200g 200g	1700	20	34,000	crop, yield and economics	Plant Protection, Soil Science, SS & H (Agronomy) and

				acre. <i>Metarhizium nisoplea</i> + <i>Bacillusthuren gensis</i> @ 1g/l each, Spray of Emamectin benzoate 5 EC @ 0.25 g/l of water										Home Science
		Rabi sorgh um	Non availabil ity of high yielding varieties, to M35- 1	High yielding Sorghum variety BJV- 44 , seed treatment with Biofertilizers	BJV- 44	-	UAS(D)	Seeds Azospirillum, PSB and Tricoderma	3 kg 200 gram 200 gram 200 gram	270	20	5400	Yield and econom ics	Soil Science, Agronom y H.Sc. , Plant protection
		Duru m wheat	Non availabil ity of high yielding varieties public varieties, lodging, Rust and leaf blight	New variety UAS-304/334 (Resistant to rust & good quality of chapati)	UAS 304/33 4	-	UAS(D)	Seeds  Azospirillum,and PSB	60 kg  100gm	2950	06	17700	No. of tillers / hill, rust incidenc e, yield and econom ics	Agronom y H.Sc. , Soil Science, Plant protection
		Dicoc cum wheat	Low yielding varieties, lodging, leaf blight and rust	<i>Dicoccum</i> Whe at DDK-1029, seed treatment with biofertiliser and management of rust.	DDK- 1029	-	UAS(D)	Seeds Hexaconazole 1ml/l	60 k 500 ml	3100	10	31000	No. of tillers / hill, lodging %, rust incidenc e, yield & yield paramet ers, econom ics.	Agronom y H.Sc. , Soil Science, Plant protection



		Pigeon pea	Low yielding varieties , wilt and dry root rot susceptible variety and incidence of pod borer and podfly	TS-3R/GRG-11 seeds, seed treatment with bio fertilizers, ovicide spray, nipping ,installation of pheromone traps , use of neem based insecticides , HaNPV& need based application of insecticides.	TS-3R/GRG-811		UAS, Raichur	Pigeonpea Seeds Biofertilizers Profenophos Neemark Emamectin benzoate Pheromone traps + lures	5 kg 1 kg 500 ml 2 Its 100 g 2+4 Nos.	2,250	12	27,000/-	Larvae / plant , Pod damage, seed damage , PDI and yield	Plant Protection , SS&H, Home Science
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		Chick pea	Wilt and pod borer incidence, Low yield	JAKI-9218 Seeds , seed treatment with bio fertilizers, ovicide spray, nipping , installation of pheromone traps , use of neem based insecticides , HaNPV& need based application of insecticides.	JAKI- 9218	-	UAS, Dharwad	Chickpea Seeds Biofertilizers profenophos Neemark HaNPV Emamectin benzoate Pheromone traps + lures	20 kg 1 kg 500 ml 2 lts 250 ml 100 g 2+4	1500 150 300 300 250 700 200	10	3080 0/-	Wilt percenta ge , pod borer incidence and yield	, SS&H, Plant Protection ,Home Science
		Beng algram		Protective clothing during harvesting of Bengalgram	-	-	UAS(D)	Head cap, Nasal Air filter, Face mask, Hand gloves, Apron, Pyjama.	Head cap, Nasal Air filter, Face mask, Hand gloves, Apron, Pyjama.	1000	10	10,0 00	Feedbac k from the users on extent of comfort & body protecti on against adverse climatic conditio ns, Time taken To avoid injury in palm.	H.Sc, Agronom y, Veterinar y, Soil Science,

6.5	Commercial crops													
		Sugarcane	Increased cost of cultivation, Low yield due to pest	Popularization of planting of single eye bud seedling methods in sugarcane, wooly aphid and root grub management	Co-86032		SSI,TN AU,Coinbatore , UAS-Dharwad	Seed material (Co-86032)- and Poly bags/ trays , Pot mixture Chloropyriphos Acephate <i>Metarrhiziumanisopliae</i>	5000 seedlings 2.5 litre 200 g 5 kg	14,650	3	43950	No.of tillers/bud, Cane yield and yield parameters.	Plant protection , SS & H, Soil Science
		Cotton	Leaf reddening, pink bollworm and sucking pests incidence, lack of knowledge about foliar nutrition	Pheromone traps(30/ha), Soil application of MgSO <sub>4</sub> @ 25 kg/ha, foliar application of MgSO <sub>4</sub> @ 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	Bt cotton (private hybrid)		UAS, Dharwad	Pheromone traps + lures MgSO <sub>4</sub> (Soil application) MgSO <sub>4</sub> (Foliar application) Pyrethroid insecticide 5% neem oil Profenophos	12+24 Nos. 10 kg 4 kg 100 ml 1L 500 ml	3000/-	10	30000	<b>Soil sample before and after application Larvae / plant , No. of bolls/ plant and yield</b>	Soil Sci.,Plant Protection , SS&H,
6.6	Horticultural crops													
		Tomato	Non adoptio	Demonstration of high		ArkaSamrat	IIHR, Bangalo	Seedings Vegetable special	8500 nos 3kg	3100	06	18600	TOLCV Disease	Hort, Plant Prt,

			n of disease resistant and high yielding hybrids. Incidence of TOLCV, Early blight, Bacterial wilt	yielding, triple disease resistant tomato hybrid – ‘ArkaSamrat’			re						incidence (%), yield and economics Shelf life	Soil Sc. & Animal Sc.
		Chilli	High incidence of murda complex with low yield and inferior quality, incidence of powdery mildew and anthracnose	Management of chilli murda complex			IIHR, Hessarghatta	5% neem oil Acephate Neem cake Vermicompost Imidachloprid Yellow sticky traps	1L 500g 1 qtl 20 Kg 100ml	3960	8	31,680	No of fruits per plant and fruit length, PDI, incidence of thrips and mites percentage, yield	Plant Prt, Hort, SS and H (Agronomy), Home Science
		<i>Khari</i> Onion	Non availability of improved variety and Low yield due to	Demonstration of new Onion variety “Bhima Super” during <i>Kharif</i>		Bhima Super	DOGR, Rajgurunagar	Seeds	2kg	2000	10	20000	Weight and diameter of bulb Pest and disease incidence (%) Yield and	Hort, Plant Prt, Home Sc. & SS&H

			local varieties										economics	
		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	2kg	3000	05	15000	Weight and diameter of bulb Pest and disease incidence (%) Yield and economics	Hort, Plant Prt, Home Sc. & SS&H
		Melons	Flowering and fruit set is poor due to deficiency of Boron in cucurbitaceous, yield, quality of fruit is less.	Mixture of boric acid @ 30g + salicylic acid @ 50g in 1% urea and 1% sulphate of potash solution/ac, 2 foliar spray should be taken at flower bud appear and after 20 days of 1 <sup>st</sup> spray in melons. Installation of sticky traps (yellow & white).Spraying of fipronil 1ml/lit	-	-	IIHR, Bengaluru	Boric acid (17% B) Salicylic acid Sticky traps Fipronil	60g 100g 8nos 500ml	1350/-	10	13,500/-	Soil and leaf sample analysis before and after foliar spray, yield and economics.	Soil Science, Horticulture and SS & H (Agronomy)
		Lime	Micro nutrient deficiency, low yield	Integrated Crop Management (ICM) in lime	Kagzi lime		IIHR, Bangalore	Citrus Special Lihocin	6 kg 1 lit	2700	10	27000	No. of fruits / kg Percent mite	Hort, Plant Prt, Soil Sc&. Home Sc.



			during summer incidence of mite, canker, gummosis, nematodes and wilt.									incidence (%) Yield and economics		
		Pomegranate	Bacterial blight, wilt and thrips incidence	Bacterial blight management in pomegranate - Sanitation, dusting bleaching powder around the plant, use of disinfected equipment for pruning, spraying of COC + antibiotics, spraying of micronutrients, Use of bio agents	Kesar	-	UAS-Dharwad	COC Antibiotics Nutrients (Zn, Mg, Ca, B) <i>Pseudomonas floescence</i> <i>Paecilomyceslilacinus</i> Imidachloprid 17.8SL	600g 100g 200g each 6kg 3kg 100ml	2,910	8	23,280	PDI, infested fruits / plant, No. of rotted fruits / plant and marketable Yield	Plant protection, Horticulture, Soil Sci.,
		Grape	Micronutrient deficiency and stem borer incidence	Foliar application of Arka grape special @ 4g/lit. 4 sprays has to be taken at 15 days interval starting from 20 <sup>th</sup> day after pruning Stem injection	Thoms on Seedless, Sonaka		IIHR, Bengaluru	Arka grape special DDVP	4kg 1lit	1450	10	14500/-	Chlorophyll content and grape leaf analysis and yield	Horticulture, Soil Science, Plant Protection and SS & H (Agronomy)

				of DDVP @ 8%										
6.7		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	200	20	4000	Total production of vegetable, Daily utilization of Fruits & Vegetables in diet, Amount Saved over the period, Preference, Food adequacy	H.Sc, Horti, Pathology, Agronomy,
		Demonstration of Lime harvester	Picking or traditional method of lemon leads to heavy drudgery and time & labour consuming. Poor knowledge about improved	IIHR model Lime harvester	IIHR model Lime harvester	-	IIHR, Bengaluru	Lime harvester	Lime harvester-1	200	30	6,000	Capacity (hr) and Cost of operation Time and labor savings.	H.Sc, Horti, Agronomy and Veterinary

			mechanization.											
6.8	Livestock	Sheep and Goats	Lower body weight gain, High cost for kids, Lack of knowledge on broiler goat farming	Demonstration of progesterone impregnated sponge in success of Broiler goat farming	-	-	CSWRI, Avikana gar	1. Dewormer 2. Mineral Mixture 3. P4 Intra-vaginal sponges	6gm 2.5kg 6	200/- 600/- 400/-	06	7200 /-	1. Estrus detection rate (%) 2. Pregnancy rate (%)	Scientist (Anim Science), Home science, SS&H
	Livestock	Dairy cows	Low milk yield High incidence of Mastitis	Demonstration of clean milk production procedures for prevention of mastitis in cows	-	-	KVAFS U, Bidar	1. CMT Kit 2. Teat Dipping Solution 3. Dip cups 4. Towel 5. KMnO4 6. Intra- mammary infusion	01 500 ml 01 01 100gm 4	800 300 200 100 100 500	08	1600 0	Incidence of sub clinical mastitis (%), Milk Yield (Lit. Day)	Scientist (Anim Science), Home Science SS&H
										2000				
	Livestock	Fodder	Low milk yield, Scarcity of fodder during summer, Lack of knowledge on silage	Demonstration on preservation of green fodder in the form of silage using silo bag	-	-	KVAFS U, Bidar	1. Silo Bag 2. Molasses /Jaggery 3. Urea+salt 4. Mineral Mixture	01 08 02 01	850 300 250	08	1120 0	Quality of silage (grade), Milk Yield (lit./day)	Scientist (Anim Science), Plant pathology SS&H
										1400				
	Livestock	Fodder	Scarcity of fodder,	Demonstration on green fodder supply			IGFRI, Dharwad	Hybrid Napier (Co-5) CoFs-31	1000 1 kg	1000 500	12	30,000	Yield (ton/hectare)	Scientist (Anim Science), Home

			Lack of knowledge on green fodder variety	model			and TNAU, Coimbatore	Lucerne StyloHemata	1 kg 1k g	500 500			Milk yield (lit.)	science, SS&H
6.9	Fisheries	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 30 kg 80 kg	2,000 800 1200	06	24,000	1. Net weight gain (kg) 2. Mortality rate (%)	Scientist (Animal Science), Horticulture, SS&H
6.10	Onion	Power operated Onion size grader	Poor knowledge about improved mechanization. Labor problem. Time consuming.	On farm processing and grading of onion	-	-	IIHR, Bengaluru	Power operated Onion size grader	Power operated Onion size grader-1	2,00,000	1	2,00,000	Capacity (hr) and Cost of operation. Market price for cleaned & graded grains.	H.Sc, Horti, Agronomy, Soil science and Veterinary
<b>EDP – Entrepreneur Development Programme</b>														
		Lime processing and value addition	Post-harvest loss. No value addition. Low prevailing market price.	Processing and value addition	-	-	UASB	Lime Juice Machine and Lime cutter	Lime Juice Machine and Lime cutter	2,30,000	1	2,30,000	Consumer acceptability. Shelf life. Economics Savings.	H.Sc, Horti, Agronomy, Pathology and Veterinary

### 7. Training for farmers/ farm women during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Crop / Enterprise	Related field intervention (OFT/FLD)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
7.1	Crop production						
		Groundnut	FLD	Sulphur Management in G2-52 variety of Groundnut	01	25-30	Soil Science, Plant Protection, &H Home Science
		Redgram		Integrated Crop Management in Redgram		25-30	Soil Science, Plant Protection, &H Home Science
		Bengalgram		Integrated Crop Management in Bengalgram		25-30	Soil Science, Plant Protection, &H Home Science
		Wheat		Integrated Crop Management in Wheat		25-30	Soil Science, Plant Protection &H Home Science
		Sugarcane		Integrated Crop Management in sugarcane		25-30	Soil Science, Plant Protection,
7.2	Horticulture production						
		Chilli	OFT	Recent advances in chilli cultivation	01	25-30	Hort, Plant Prt, Home Sc.& SS &H
		Tomato	FLD	Recent advances in tomato cultivation	01	25-30	Hort., Plant Prt. & Animal Sc.
		Onion	FLD	Recent advances in onion cultivation	02	25-30	Hort, Plant Prt, Home Sc.& SS &H
		Lime	FLD	ICM in lime	02	25-30	Hort, Plant Prt, Soil Science & SS&H Hort,
		Pomegranate	FLD	ICM in pomegranate	01	25-30	Hort, Plant Prt, & SS&H
		Grape	FLD	ICM in grape	01	25-30	Hort, Plant Prt, Soil Science & SS&H
		Onion	OFT	Role of calcium and sulphur in onion	01	25-30	Soil Science, Horticulture, Home Science
		Watermelons and pumpkins crops	FLD	Boron nutrition in cucurbitaceous crops	01	25-30	Soil Science, Horticulture, SS &H
7.3	Livestock production	Fodder	OFT	Cultivation of Co-5 and DHN-6 Hybrid napier variety	<b>02</b>	<b>50-60</b>	Sci (Anim Sc.), Soil Science, SS&H
		Livestock	FLD	Diagnosis and Management of	02	50-60	Sci (Anim Sc.), Home

				Sub-clinical Mastitis in cows			Science, 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
		Poultry	IFS	Swarnadhara poultry farming	01	20-40	Sci (Anim Sc.), palnt pathology, 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	02	40-60	Sci (Anim Sc.), Soil Science, SS&H
		Fodder	FLD	Silage Preparation	02	50-60	Sci (Anim Sc.), Horticulture, SS&H
7.4	Home Science		FLD	Processing and preservation of fruits and vegetables	02	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
			FLD	Value addition to cereals, pulses and oil seeds	02	30-50	H.Sc, Agronomy, Veterinary, Pathology and Soil Science
			FLD	Agro based micro enterprises for farm women	02	30-50	H.Sc, Veterinary Agronomy, and Soil Science
			FLD	Drudgery reducing tools and equipment's in groundnut	02	30-50	H.Sc, Agronomy, Soil Science and Veterinary
			EDP	Entrepreneurship development through processing and value addition to millets	02	30-50	H.Sc, Veterinary Agronomy and Soil Science
			FLD	Importance of Nutrition garden and its layout	02	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
			FLD	Economic and health security through value addition in lime	02	30-50	H.Sc, Horticulture Agronomy, Soil Science and Veterinary
			FLD	Value addition on millets	02	30-50	H.Sc, Agronomy, Soil Science and Pathology
			FLD	Value addition on lime	02	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
7.5	Plant protection						
		Pomegranate	OFT: Wilt	IPDM in Pomegranate		25-30	Plant prot., Horticulture,

			management in Pomegranate				SS &H
		Pigeonpea	FLD: ICM in Pigeonpea	Pest and disease management in Redgram.		25-30	Plant prot., SS &H, Home Science
		Cotton	FLD: ICM in Cotton	ICM in cotton		25-30	Plant prot.,SS &H, soil science
		Pomegranate	FLD: IPDM in Pomegranate	Symptomatology and management of bacterial blight of pomegranate.		25-30	Plant prot., Horticulture, soil science
		Sugarcane	FLD: SSI (Sustainable Sugarcane Initiative ) and IPM in Sugarcane	Pest and diseases of Sugarcane.		25-30	Plant prot.,SS &H, soil science
		Chickpea	OFT: Assesment of wilt and dry root rot varieties	ICM in Chickpea		25-30	Plant Protection, Home Science
7.6	Production of inputs at site	Vermicompost		Production of vermicompost	02	60	Soil Science Agronomy,
7.7	Soil health and fertility		Soil health	Importance of soil health	02	60	Soil Science Agronomy,
		Onion	OFT	Importance of Sulphur in onion	02	60	Soil Science Agronomy, and horticulture
		Groundnut	FLD	Sulphur Management in G2-52 variety of Groundnut	01	25-30	Soil Science, Agronomy,
		Melons	FLD	Importance of micronutrients in melons production	02	60	Soil Science Agronomy, and horticulture
		Cotton	FLD	Importance of secondary nutrients in cotton production	02	60	Soil Science Agronomy,
7.8	PHT and value addition			Value addition to cereals, pulses and oil seeds	02	30-50	H.Sc, Agronomy, Veterinary, Pathology and Soil Science

7.9	Capacity building/ group dynamics						
7.10	Farm mechanization						
7.11	Fisheries production technologies	Inland Fish	FLD	Composite fish rearing in farm ponds	01	30	Sci (Anim Sc.), Horticulture, SS&H
7.12	Mushroom production	Wheat and Dicoccum wheat		Production of mushroom	02	60	Home science, Agronomy
7.13	Agro forestry						
7.14	Bee keeping	Lime	FLD	Bee keeping to enhance Pollination	02	60	Horticulture, plant protection
7.15	Sericulture						
7.16	Others, pl. specify						

### 8. Training for rural youth during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Crop / Enterprise	Related field intervention (EDP/Skill development etc)	Training title	No. of courses	Expected No. of participants	Names of the team members involved
8.1	Crop production	Organic farming		Importance and necessity of organic farming	02	60	Soil Science Agronomy, and horticulture
8.2	Horticulture production						
		Commercial horticulture crops	Skill development	Protected cultivation	01	25-30	Horticulture, Plant Prt, SS& H (Agronomy)
		Vegetable crops	Skill development	Quality seedling production in vegetable crops	01	25-30	Horticulture, Plant Prt, SS & H (Agronomy)
8.3	Livestock production		Skill Development	Scientific Dairy farming	01	30	Sci (Anim Sc.), Soil Science, SS&H
			Skill Development	Scientific Sheep and Goat farming	01	30	Sci (Anim Sc.), Home Science, SS&H
			Skill Development	Scientific Poultry farming	01	30	Sci (Anim Sc.),



							Horticulture, SS&H
8.4	Home Science		Skill development	Processing of Dal and value addition	1	30-50	H.Sc, Agronomy, Pathology and Soil Science
			Skill development	Processing of millets	1	30-50	H.Sc, Agronomy, Veterinary, Pathology and Soil Science
			Skill development	Primary processing of wheat	1	30-50	H.Sc, Agronomy and Soil Science
			EDP	Primary processing of Lime	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
			EDP	Power operated Onion size grader	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
8.5	Plant protection						
		Pomegranate	OFT: Wilt management in Pomegranate	IPDM in Pomegranate	2	25-30	Horticulture, SS &H
		Pigeonpea	FLD: ICM in Pigeonpea	Pest and disease management in Redgram.	3	25-30	SS &H, Home Science
		Cotton	FLD: ICM in Cotton	ICM in cotton	2	25-30	SS &H, soil science
		Pomegranate	FLD: IPDM in Pomegranate	Symptomatology and management of bacterial blight of pomegranate.	1	25-30	Horticulture, soil science
		Sugarcane	FLD: SSI (Sustainable Sugarcane Initiative ) and IPM in Sugarcane	Pest and diseases of Sugarcane.	2	25-30	SS &H, soil science
		Chickpea	FLD: ICM in Chickpea	ICM in Chickpea	3	25-30	Plant Protection, Home Science
		Sorghum and Wheat		Pest and disease management of Rabi Sorghum and Wheat	2	25-30	SS &H, soil science
		Sugarcane and redgram		Rootgrub management in different crops	2	25-30	SS &H, soil science
		Maize		Management of fall army worm in Maize	2	25-30	SS &H, soil science
		Grapes		Pest and diseases	2	25-30	Horticulture, SS &H

				management in grapes			
		Lime		Pest and diseases management in lime	3	25-30	Horticulture, SS &H
8.6	Production of inputs at site	Vermicomposting		Production of vermicompost	02	60	Soil Science Agronomy,
8.7	Soil health and fertility			Scientific way of soil sampling procedure in agriculture and horticulture crops	01	25-30	Soil Science,SS&H
				Saline and alkali soils and their management	01	25-30	Soil Science
				Nutrient deficiency symptoms and their management in agriculture and horticulture crops	01	25-30	Soil Science
				Soil Health Card helps in increasing the crop and soil productivity	01	25-30	Soil Science
8.8	PHT and value addition			Power operated Onion size grader	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
				Processing of Dal and value addition	1	30-50	H.Sc, Agronomy, Veterinary and Soil Science
				Primary processing of Lime	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
				Value addition in minor millet	1	30-50	H.Sc, Agronomy and Soil Science
				Primary processing of wheat	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
8.9	Capacity building/ group dynamics						
8.10	Farm mechanization						
8.11	Fisheries production technologies	Inland Fish	Skill Development	Composite fish rearing in farm ponds	01	30	Sci (Anim Sc.), Horticulture, SS&H

8.12	Mushroom production	Wheat and Diccocum wheat		Mushroom cultivation	01	30	H.Sc, Horti, Agronomy, Pathology and Soil Science
8.13	Agro forestry						
8.14	Bee keeping						
8.15	Sericulture						
8.16	Others, pl. specify						

### 9. Training for extension personnel during 2019-20

Sl.No.	Thematic area and the crop/ enterprise	Training title	No. of courses	Expected No. of participants	Names of the team members involved
9.1	Crop production				
9.2	Home Science	Nutritional training programme to anganwadi workers	1	30-50	H. Sc, Agronomy and Horticulture
		Nutritional importance of Milk and milk products for preschool children	1	30-50	H. Sc, Agronomy and Horticulture
		Dietary habits of farm women and children for managing anaemia	1	30-50	H. Sc, Agronomy and Horticulture
9.3	Capacity building and group dynamics				
9.4	Horticulture	Advances in organic cultivation of major fruit crops	01	30	Horticulture, Plant Prt& SS&H
		Commercial floriculture	01	30	Horticulture, Plant Prt& SS&H
9.5	Livestock production and management	Management of reproductive problems under field conditions	01	30	Sci (Anim Sc.), Home Science, SS&H
9.6	Plant protection				
		Organic farming for sustainable	1	30	Plant prot., SS &H, soil science , Vet Sci.,

		agriculture			
		Pest and diseases of major field crops and their management	1	30	Plant prot., SS &H, soil science , home sci.,
		Pest and diseases of major fruit crops and their management	1	30	Plant prot.,Horticulture, SS &H
9.7	Farm mechanization				
9.8	PHT and value addition	Power operated Onion size grader	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
		Processing of Dal and value addition	1	30-50	H.Sc, Agronomy, Veterinary and Soil Science
		Primary processing of Lime	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
		Value addition in minor millet	1	30-50	H.Sc, Agronomy and Soil Science
		Primary processing of wheat	1	30-50	H.Sc, Horti, Agronomy, Pathology and Soil Science
9.9	Production of inputs at site				
9.10	Sericulture				
9.11	Fisheries				
9.12	Other, pl. specify				
	Soil fertility management	Saline and alkali soils and their management	1	30-50	Soil Science, Plant Protection
		Scientific way of soil sampling procedure in agriculture and horticulture crops	1	30-50	Soil Science, Horticulture

### 10. Vocational trainings during 2019-20

Sl.No.	Thematic area and the crop/enterprise	Training title	No. of programmes	Duration (days)	Expected No. of participants	Sponsoring agency, if any	Names of the team members involved
10.1	Crop production						
10.2	Home Science	Primary processing of Lime	2	1	30-50	-	H.Sc, Horti, Agronomy, Pathology and Soil Science
		Value addition in minor millet	2	1	30-50	-	H.Sc, Agronomy, Veterinary and Soil Science
		Primary processing of wheat	2	1	30-50	-	H.Sc,,Agronomy, Horti and Soil Science
		Primary processing of Redgram	2	1	30-50	-	H.Sc, Agronomy and Soil Science
10.3	Capacity building and group Dynamics						
10.4	Horticulture	Propagation techniques in fruit crops	01	2	25	ATARI	Horticulture, Plant Prt& SS&H
10.5	Livestock production and management	Scientific goat farming	02	03 days	30	-	Sci (Anim Sc.), Soil Science, SS&H
		Scientific Dairy farming	01	03 days	30	-	Sci (Anim Sc.), Plant pathology, SS&H
		Scientific Poultry farming	01	03 days	30		Sci (Anim Sc.), Horticulture, SS&H
10.6	Plant protection	Organic farming for sustainable agriculture	1	2	30		SS &H, soil science , Vet Sci.,
		Pest and diseases of major field crops and their management	1	1	30		SS &H, soil science , home

							sci.,
		Pest and diseases of major fruit crops and their management	1	1	30		Horticulture, SS &H
10.7	Farm mechanization						
10.8	PHT and value addition	Power operated Onion size grader	1	1	30-50		H.Sc, Horti, Agronomy, Pathology and Soil Science
		Processing of Dal and value addition	1	1	30-50		H.Sc, Agronomy, Veterinary and Soil Science
		Primary processing of Lime	1	1	30-50		H.Sc, Horti, Agronomy, Pathology and Soil Science
		Value addition in minor millet	1	1	30-50		H.Sc, Agronomy and Soil Science
		Primary processing of wheat	1	1	30-50		H.Sc, Horti, Agronomy, Pathology and Soil Science
10.9	Production of inputs at site						
10.10	Sericulture						
10.11	Fisheries						
10.12	Other, pl. specify						
	Soil fertility management	Scientific way of soil sampling procedure in agriculture and horticulture crops	01	1	25-30		Soil Science, Horticulture
		Soil Health Card helps in increasing the crop and soil productivity	01	1	25-30		Soil Science, Home Science



11.9	Production of inputs at site						
11.10	Sericulture						
11.11	Fisheries						
11.12	Others, pl. specify						

## 12. Extension activities during 2019-20

Sl. No.	Extension activity	No. of activities	Targeted number of participants	Names of the team members involved
12.1	Advisory services	240	320	Horticulture, Soil Science, Animal Science, Home Science, Plant Prt& SS&H (Agronomy)
12.2	Diagnostic visits	135	360	Horticulture, Soil Science, Animal Science, Home Science, Plant Prt& SS&H (Agronomy)
12.3	Field days	21	470	SS&H (Agronomy), Horticulture, Soil Science, Animal Science, Home Science, Plant Protection
12.4	Group discussions	25	181	Horticulture, Soil Science, Home Science, Animal Science, Plant Protection
12.5	Kisangosthies	10	440	SS&H (Agronomy), Horticulture, Soil Science, Home Science, Animal Science, Plant Protection
12.6	Film shows	5	100	SS&H (Agronomy), Horticulture, Soil Science, Home Science, Animal Science, Plant Protection
12.7	Self -Help Groups (SHGs) meetings	14	390	Home Science, Animal Science
12.8	KisanMelas			
12.9	Exhibitions	2	60	Horticulture, Home Science, Animal Science, Plant Protection
12.1	Scientists' visit to farmers fields	44	75	SS&H (Agronomy), Horticulture, Soil Science, Home Science, Animal Science, Plant Protection
12.11	Plant/soil health/animal health camps	2	100	Soil Science, Animal Science, SS&H (Agronomy),



12.12	Farm science club meetings			
12.13	Ex-trainees (Meetings)			
12.14	Farmers' seminars/workshops	7	145	
12.15	Method demonstrations	14	400	Animal Science, Soil Science
12.16	Celebration of important days	7	55	Horticulture, Plant Prt& SS&H, Home Sc, Animal Sci& Soil Sc.
12.17	Special day celebrations	10	260	Horticulture, Plant Prt& SS&H, Home Sc, Animal Sci& Soil Sc.
12.18	Exposure visits	9	260	Horticulture, Home Science, Animal Science
12.19	Technology week celebration			
12.2	Farmers Field School (FFS)			
12.21	Farm innovators meet			
12.22	Awareness programmes	6	200	
12.23	Pre-kharif campaign	1	100	SS&H (Agronomy), Horticulture, Soil Science, Home Science, Animal Science, Plant Protection
12.24	Pre-rabi/summer campaign	1	250	SS&H (Agronomy), Horticulture, Soil Science, Home Science, Animal Science, Plant Protection
12.25	Others, pl. specify			

### 13. Activities proposed as knowledge and resource center during 2019-20

#### 13.1 Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha)	Number	Names of the team members involved
13.1.1					
13.1.2	Demonstration units	Kitchen garden	250m <sup>2</sup>	1	Horticulture and Home science
		Nursery unit	1400sq ft	1	Horticulture
		Fodder block Making Unit		1	Animal Science
		Azolla Unit	-	1	Animal Science
		Fodder park	2 Acre	-	Animal Science
		Dairy Unit	-	1	Animal Science
		Vermicompost Unit	-	1	Soil Science
		Vermiwash unit		1	Soil Science
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					
		-	CoFs-31	01q	-	Scientist (Animal Sci. ) SS and H
			Redgram	50	-	SS & H and farm manager
			Bengalgram	20	-	
			Rabi jowar	40	-	
13.2.2	Planting material					
		Lime		1000		Horticulture, Plant Prt. &SS&H Lime
		Drumstick		500		Horticulture, Plant Prt,& SS&H Drumstick

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	4	Plant Protection and Soil Science
	b. Horticulture	5	Horticulture and Plant Protection
	c. Animal Husbandry	06	Animal Science
	d. Fisheries	02	Animal Science
	e. Agricultural Engineering		
	f. Sericulture		
	g. Others, pl. specify Child and social welfare	2	Home Science and Horticulture
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 2019-20

Sl.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
14.1	UAS (D)	Research	Preparation of ready to feed enriched crop residue fodder block	10,00,000.00	Dr. Santhosh Shinde
14.2	ATMA	Research	Short term research and extension	2,00,000	Agronomy, Plant Protection, , Soil Science, Horticulture, Animal Science and Home science

### 15. Revolving fund

### 15.1 Financial status of revolving fund

Opening balance as on 01.04.2018 (Rs.in Lakh)	Expenditure incurred during 2018-19 (Rs.in Lakh)	Receipts during 2018-19 (Rs.in Lakh)	Closing balance as on 31.01.2019 (Rs.in Lakh)	Expected closing balance by 31.03.2019 (Including value of material in stock/ likely to be produced)
4.99	0.90	2.40	6.54	8.00

### 15.2 Plan of activities under revolving fund

Sl.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
15.2.1	Production of milk from dairy animals	5000 lit.	1,00,000.00	Scientist (Animal Science)
15.2.2	Stem cuttings of Co-5	1 Hectare	15,000.00	Scientist (Animal Science)
15.2.3	Fodder blocks production	3,000	20,000	Scientist (Animal Science)
15.2.4	Vermi-compost	10000kg	60,000	Scientist (Soil Science)
15.2.5	Soil sample analysis	100 nos	20,000	Scientist (Soil Science)
15.2.6	Water sample analysis	50	5000	Scientist (Soil Science)
15.2.7	Fruit production (sapota and guava)		6000	Scientist (Horticulture)

### 16. Activities of soil, water and plant testing laboratory during 2019-20

Sl.No.	Type of samples	No.of samples to be analyzed	Names of the team members involved
16.1	Soil test using analytical lab		
16.2	Soiltest using mobile analysis kit	100	Soil Science
16.3	Water	50	Soil Science
16.4	Plant		
16.5	Others, pl. specify		

### 17. E-linkage during 2019-20

Sl. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
17.1	Title of the technology module to be prepared	April, 2019	--

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

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

Sl. No	Activities planned	Remarks if any

### 19. Farmers Field School (FFS) planned - Nil

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.
Agriculture & Horticulture components Animal Component - Goat (2) Fisheries – Fingerlings (Rohu or Common carps) Poultry -Swarnadhara (20 Birds) Fodder Trees – Sesbania, Calliandra Azolla cultivation	05	50,000/-

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

(Rs. in Thousand)

Sl.No.	Particulars	Sanctioned	Released	Expenditure	Balance
<b>21.1</b>	<b>(A). REVENUE (Recurring Contingencies)</b>				
21.1.1	<b>Pay &amp; Allowances</b>	67,78,000	67,78,000	62,77,735	5,00,265
21.1.2	<b>Traveling allowances</b>	1,75,000	1,75,000	1,75,000	0.00
21.1.3	<b>Contingencies</b>				
21.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	2,10,000	2,10,000	2,09,985	15.00
21.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	3,00,000	3,00,000	2,94,722	5,278.00
21.1.3.c	<i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i>	1,06,000	1,06,000	1,05,917	83.00
21.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	25,000	25,000	24,990	10.00
21.1.3.e	<i>Frontline demonstrations</i>	3,58,000	3,58,000	3,54,627	3,373.00
21.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	-	-	74,844	156.00

21.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	-	-	-	-
21.1.3.h	<i>Training of extension functionaries</i>	25,000	25,000	21,900	3,100.00
21.1.3.i	<i>Extension activities/services</i>	50,000	50,000	47,891	2109.00
21.1.3.j	<i>Farmers' Field School</i>	-	-	-	-
21.1.3.k	<i>EDP (2 Nos.) / Innovative activities</i>	11,000	11,000	10,990	10.00
21.1.3.l	<i>Soil &amp; water testing &amp; issue of soil health cards</i>	25,000	25,000	23,496	1504.00
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 &amp; Magazines)</i>	5,000	5,000	3390	1610
	<b>Total Recurring</b>	<b>81,43,000</b>	<b>81,43,000</b>	<b>76,25,487</b>	<b>5,17,513</b>
<b>21.2</b>	<b>(B). CAPITAL (Non-Recurring Contingencies)</b>				
21.2.1	<b>Equipments &amp; Furniture (Including tractor)</b>	10,00,000	10,00,000	9,97,355	2,645
21.2.2	<b>Works</b>	1,13,90,000	1,13,90,000	100,00,000	13,90,000
21.2.3	<b>Vehicle</b>	8,00,000	8,00,000	7,93,676	6,324
21.2.3 a	Four wheeler (replacement)	-	-	-	-
21.2.4	<b>Library</b>	-	-	-	-
	<b>Total Non-Recurring</b>	<b>1,31,90,000</b>	<b>1,31,90,000</b>	<b>1,17,91,031</b>	<b>13,98,969</b>
<b>21.3</b>	<b>(C). REVOLVING FUND</b>	<b>3,00,000</b>	<b>3,00,000</b>	<b>3,00,000</b>	<b>0.00</b>
	<b>GRAND TOTAL (A+B+C)</b>	<b>2,16,33,000</b>	<b>2,16,33,000</b>	<b>1,97,16,518</b>	<b>19,16,482</b>

## 22.Details of Budget Estimate based on proposed action plan(2019-20)

Sl.No.	Particulars	BE 2019-20 proposed (Rs.)
<b>22.1</b>	<b>(A). REVENUE (Recurring Contingencies)</b>	
21.1.1	<b>Pay &amp; Allowances</b>	106.00
22.1.2	<b>Traveling allowances</b>	2.00
22.1.3	<b>Contingencies</b>	
22.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	4.00
22.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	2.50
22.1.3.c	<i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i>	1.50
22.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	0.50
22.1.3.e	<i>Frontline demonstrations</i>	7.37
22.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	1.38
22.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0.50
22.1.3.h	<i>Training of extension functionaries</i>	0.50
22.1.3.i	<i>Extension activities/services</i>	0.50
22.1.3.j	<i>Farmers' Field School</i>	0.00
22.1.3.k	<i>EDP (2 Nos.) / innovative activities</i>	2.30
22.1.3.l	<i>Soil &amp;water testing &amp; issue of soil health cards</i>	0.50
22.1.3.m	<i>Maintenance of building</i>	0.50
22.1.3.n	<i>Library (Purchase of Journals, Periodicals, News Papers&amp; Magazines)</i>	0.05
22.1.3.o	<i>Others, pl. specify</i>	-
	<b>Total Recurring (A)</b>	<b>130.10</b>
<b>22.2</b>	<b>(B). CAPITAL (Non-Recurring Contingencies)</b>	
22.2.1	<b>Equipments&amp; Furniture</b>	10.00
22.2.2	<b>Works</b>	200.00
22.2.3	<b>Vehicle (Bike)</b>	0.80
22.2.3.a	Four wheeler (replacement)	-
22.2.4	<b>Library</b>	0.20
	<b>Total Non-Recurring (B)</b>	<b>211.00</b>
	<b>Grand Total (A + B)</b>	<b>341.10</b>