



ACTION PLAN 2019-20

(Action Plan Meeting at UAS, Dharwad, Karnataka)

25th to 27th April 2019



ICAR-Krishi Vigyan Kendra

(ICAR-Indian Institute of Horticultural Research)

Hirehalli, NH-48, Tumakuru District

Karnataka – 572168

www.iihrkvk.org



ICAR-ATARI, ZONE-XI, HEBBAL, BANGALORE

PROFORMA FOR ACTION PLAN 2019-20

GUIDELINES

(Please read carefully before preparing action plan)

1. It is mandatory to fill all the items of activities in the format. Further, additional activity/activities within the mandate which are relevant to increase income of farmers in the operational villages will be encouraged.
2. For the activities proposed to be continued, all the data of the previous year(s) must be presented, supported by visuals.
3. Please finalize the Doubling Farmers Income (DFI) document of the district first before taking up the action plan for 2019-20. Select villages and the technologies/interventions identified for DFI as the basis for Action Plan 2019-20.
4. Integrate all the ongoing major schemes like CFLDs, Seed Hub, NICRA, ARYA, Sujala, ASCI skill training, KKAetc as well as sponsored projects such as state/central sector projects, host organization activities and other agencies in the selected villages.
5. Villages where ongoing projects are implemented may be considered on priority as cluster villages (operational) for KVK action plan.
6. Household as a whole need to be emphasized with possible interventions to achieve significant increase in income within a short period of time. KVK can plan to cover all households in a phased manner.
7. Benchmark (baseline) data on extent of technology adoption, yield, cost and income must be clearly documented for the farm families covered so that the impact can be easily monitored and recorded after KVK interventions.
8. Decide on the number of households to be covered in each village based on schemes implemented and budget available.
9. Plan to involve all sections of the community and households (women, youth, SC/ST etc).
10. Action plan should include a combination of OFTs, FLDs, training and extension activities to achieve higher productivity/income.
11. Entire KVK team must be involved in the preparation of action plan for combination of interventions.
12. In the case of FLDs on varietal performance, ensure that the varieties / hybrids are not older than 10 years.
13. Vocational trainings, EDPs and Market interventions should be planned for value-chain oriented activities of the major crops/commodities.
14. Recommendations of SAC related to technical activities should be addressed in the action plan.

ICAR-ATARI, ZONE –XI, HEBBAL, BENGALURU

PROFORMA FOR ACTION PLAN OF KVKs IN ZONE XI FOR 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, HIREHALLI, TUMAKURU DISTRICT. PIN CODE: 572168. PHONE: 08162243175/177 E-MAIL: kvk.tumakuru2@icar.gov.in, iihrkvk@gmail.com WEBSITE: www.iihrkvk.org
1.2	Name and address of host organization	:	ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH Hessaraghatta Lake Post, Bengaluru – 560089 Phone:080-23086100 Fax:080-28466291 Email: director.iivr@icar.gov.in Website: www.iivr.res.in
1.3	Year of sanction	:	2009
1.4	Website address of KVK and date of last update	:	www.iihrkvk.org

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. N.Logannadhan	Agril.Extn	Level 14	153000	08/02/2013	Permanent
2.2	Subject Matter Specialist	Sri K.N. Jagadish	Agril.Extn.	Level 11	76200	11/17/2009	Permanent
2.3	Subject Matter Specialist	Sri P.R.Ramesh	Soil Science	Level 11	76200	11/17/2009	Permanent
2.4	Subject Matter Specialist	Sri Prashanth J.M	Horticulture	Level 11	76200	11/24/2009	Permanent
2.5	Subject Matter Specialist	Sri B. HanumantheGowda	Plant Protection	Level 11	76200	12/02/2009	Permanent
2.6	Subject Matter Specialist	Mrs. RadhaR.Banakar	Home Science	Level 11	76200	12/05/2009	Permanent
2.7	Subject Matter Specialist	Vacant	-	-	-	-	Vacant
2.8	Programme Assistant (Lab Assistant)	Sri Shashidhara K N	Crop Physiology	Level 9	42300	08/02/2013	Permanent
2.9	Programme Assistant (Computer Programmer)	Jayasankar, N	Computer Science	Level 10	69000	06/15/2017	Permanent
2.10	Programme Assistant (Farm Manager)	Muralidhara	Farm Managment	Level 3	27900	06/11/2018	Permanent

2.11	Accountant/Superintendent	Ramakrishna, G.S.	Admin	Level 3	25200	06/01/2018	Permanent
2.12	Stenographer	Mrs.VedaKurnalli	Stenographer	Level 4	32300	2/17/2010	Permanent
2.13	Driver 1	Sri M.H.Ningappa	Driver	Level 3	30500	12/30/2009	Permanent
2.14	Driver 2	Vacant	Driver	-	-	-	Vacant
2.15	Supporting staff 1	Vacant	Supporting Staff	-	-	-	Vacant
2.16	Supporting staff 2	Vacant	Supporting Staff	-	-	-	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
04.01.2018	Demonstration on improved agricultural practices in a single crop from seed to seed (Eg. In Onion, demonstration on 'Good Agriculture Practice' starting from seed to post harvest technologies) need to be done. (Action: SMS-Horti).	A plot of 0.1 ha demonstration on onion was taken up at KVK farm.	
	Mushroom Rasam powder need to be introduced at mid-day meal scheme with selected schools in collaboration with Women and Child welfare department. (Action: SMS-Home Sci).	Technology fee paid and license was applied to IIHR. A trainee from KVK was also encouraged to apply. This financial year, it will be introduced in mid-day meal scheme	
	Arka Microbial consortium application is to be implemented in Front Line Demonstration (FLD) on pre and post-harvest management of Mango. (Action: SMS- Home Sci).	Method Demonstration was taken up in the concerned Mango FLD. It was included in the ongoing Skill training for Mango grower also.	
	The results of impact study of Arka Microbial Consortium and Banana Special need to be communicated to Kissan channel.(Action: SMS-Extn).	AMC – 3,156 hits from IIHR website. About 4,878 and 1,090 hits from KVK YouTube channel, as this has more reach.	
	Dry land farmers are to be mobilized for training on custard apple cultivation (including pollination process at IIHR). (Action: SMS- Extn&Horti).	2019 April second week planned with DrSakthivel, PrSci, IIHR	

	Feedback of farmers covering all the pros and cons of technologies disseminated by KVK need to be documented. (Action: SMS- Extn).	Many such technologies are documented. Eg: ArkaKyathi – Feedback from Badavanahalli	
	Entrepreneurship development needs to be focused for rural youth. (Action: All SMSs).	Mushroom, Tamarind, Areca plate making, Nursery Techniques, Mango grower, FOCT – EDP activities were taken for rural youth	
	KVK need to support FPOs for their development through technology support. (Action: SMS- Extn).	Suvarnamuki FPO, Madhugiri, GramaChetna, Marikamapa FPOs, Koratagere are being supported with technical guidance	
	Organic carbon enrichment at KVK farm need to be provided along with the specific activities undertaken for this purpose (Eg: Details of FYM and Green manure applied in specific quantities). (Action: SMS- Soil Sci).	About 225 tonne FYM and 45 tonne of green manure and 20,000 ltrs of Jeevamrutha are applied per year	
	A training programme of Home Science SMSs need to be implemented exclusively on processing aspects like post harvesting management, marketing linkage etc., at KVK, Hirehalli. (Action: SMS- Home Sci and Extn).	Orientation training programme on PHT for Home Science SMSs was held at KVK Hirehalli on 9 th Feb., 2018. Experts from IIHR and GKVK were brought.	
	Feedback from customers who are visiting KVK/IIHR stalls in KisanMela need to be documented on the preference for specific technology products. (Action: SMS- Extn).	Feedback from farmers collected from NHF-2019 (Preference for Vegetable seeds, Guava seedlings, Coconut tree climbers are some of them)	
	A <i>Mela</i> on famer-innovators need be arranged at this KVK inviting all innovative farmers of the state under different categories. (Action: SMS- Extn).	All the preparation was carried out by the Head and SMS (Extn). ATARI will be taking up in this year.	
	One or two crop demonstrations covering all cultivation aspects shall be implemented at KVK farm. (Action: SMS- Horti).	Apart from Onion, Ridge gourd and Coriander crops were taken in 2018-19 in the KVK farm, covering all the cultivation aspects.	

	Redgram variety: GRG-811 characteristics and OFT results can be presented at ZREP meeting at Bangalore to be included in the recommended PoP. (Action: SMS-PP)	Since last date was over by that time, it will be presented in the ZREP meeting of this year (2018-19)	
	Awardee farmers shall be invited as resource person for the training programme arranged by KVK. (Action: SMS- Extn).	UHS Bhagalkot and KVK arranged farmers to farmer training programme on 22-24 th Feb, 2018 Value Addition in Millets. SHG members of Hallisiri was invited for training on Millet Value Addition on 13 th June, 2018.	
	Needs/expectations of farmers that are visiting KVK need to be documented properly. (Action: SMS- Extn).	April 2018 – Jan 2019 –Needs/expectations of farmers visiting KVK was documented.	
	An assessment on spreading of technologies need to be documented. (Action: SMS- Extn).	SMS (Extn) has taken up impact analysis work in this regard, concerned to specific products of KVK.	
	Training programme on “Tree based farming system” need to be arranged at KVK in collaboration with Departments of Forestry, Tumakuru. (Action: SMS- Extn&Horti).	Training will be organized as a part of KrishiMela to be organized by KVK in collaboration with ATMA in Feb 2019 last week.	
	Training programme on “Tree mulberry based farming system” need to be arranged at KVK in collaboration within Departments of Sericulture, Tumakuru. (Action: SMS- Extn&Horti).	Off-campus training was organised at TG Palya, HebburHobli, taking assistance from Dr Balakrishna, DD, Sericulture Department on 20 th July 2018.	
	Impact of Arka Microbial Consortium in doubling the farmers’ income need to be documented. (Action: SMS- Extn& Soil Sci).	A report was prepared and submitted to the present DDM, NABARD. A Video documentation on same topic was prepared and released by Honorable Agriculture Minister, GoI.	
	An information messages covering economical benefits of specific crops (Eg.Amla, Banana) need to be properly circulated through whatsapp group and other social / mass media channel to attract farmers and rural youth to take up particular activities. (Action: SMS- Extn and concerned SMSs).	Economical benefits due to value addition in Amla was documented in a Video format and made available in You Tube. The link for same has been provided in KVK website.	

	Awareness program on Coconut Neera shall be arranged to provide basic information about Neera to the district farmers (Action: SMS- Extn and Horti)	In the FOCT training Programme (21 st Jan to 14 th Feb 2019), expert of Neera was brought from Goa and expertise was shared. An awareness programme will be arranged in the upcoming KrishiMela	
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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.)*
Cluster A Udigere, Tumakuru				
	Ragi	Blast in finger millet, Lack of suitable varieties, bacterial leaf spot, Low yield, water stress, fall army worm, low fodder yield and Seed cum fertilizer and harvesting machineries and value addition	38.4 ha	FLD Training / Extn activities
	Maize	Wild bore, Monkey, Parrot, Peacock, fall army worm, cob borer, termite, yellowing, monocropping	20.4 ha	FLD Training / Extn activities
	Ground nut	Wild bore, Monkey, Peacock, Lack of suitable varieties and leaf blight	12.3 ha	FLD Training / Extn activities
	Redgram	<i>Fusarium</i> wilt, lack of suitable varieties, SMD, pod borers damage,	8.5 ha	FLD Training / Extn activities
	Paddy	Water stress, Neck blast, nutrient deficiency, weeds, Non awareness about aerobic paddy, Rat menace,	6.1 ha	FLD Training / Extn activities
	Areca nut	Nut splitting, mite infestation, bud rot disease, flower drop, mono-cropping, <i>Ganoderma</i> wilt, <i>Hidimundigeroga</i> .	6.7 ha	Training / Extn activities
	Coconut	Mites, stem bleeding, <i>Ganoderma</i> wilt, mono-cropping, button shredding,	4.7 ha	Training / Extn activities
	Tomato	Late and early blight, blossom end rot, lack of suitable varieties, thrips.	4.6 ha	Training / Extn activities
	French bean	Virus, leaf miner, rust, lack of suitable varieties	4.3 ha	FLD Training / Extn activities
	Aster	Lack of suitable varieties, wilt, stem borer and blight	2.8 ha	FLD Training /

				Extnactivities
	Chrysanthemum	Leaf spot, wilt, mites, lack of suitable varieties.	1.65 ha	Training / Extn activities
	Dairy farming	Scarcity of fodder, lack of availability azolla, low yield, foot and mouth disease, Nutrient deficiency and Mastitis	130 Nos.	FLD Training / Extn activities
Cluster B Tanganahalli				
	Ragi	Lack of suitable varieties, bacterial leaf spot, fungal blast, Low, water stress, fall army worm, low fodder yield.	40.52 ha	FLD Training / Extn activities
	Maize	Fall army worm, cob borer	15.4 ha	FLD Training / Extn activities
	Ground nut	Lack of suitable varieties, wild borer and leaf blight	12.4 ha	Training / Extn activities
	Redgram	Fusarium wilt, varieties,SMD, pod borers damage,	12.8 ha	FLD Training / Extn activities
	Paddy	Water stress, Neck blast, nutrient deficiency, weeds	8.8 ha	FLD FLD Training / Extn activities
	Areca nut	Nut splitting, mite infestation, bud rot disease, flower drop, Monocropping, <i>Ganoderma</i> wilt, Hidimunderoga.	10.41 ha	FLD FLD Training / Extn activities
	Coconut	Mites, stem bleeding, ganoderma wilt, monocropping, button shredding	7.2 ha	FLD Training / Extn activities
	Aster	Lack of suitable varieties, wilt, MLOS, stem borer and blight	12.5 ha	FLD /Training
	Chrysanthemum	Leaf spot, wilt, mites, lack of suitable varieties.	10.8 ha	Training / Extn activities
	French bean	Virus, leaf miner, rust, lack of suitable varieties	9.2 ha	FLD /Training
	Dolichos	lack of suitable varieties, pod borer, aphids, powdery mildew	15.7 ha	Training / Extn activities/NICRA
	Cowpea	lack of suitable varieties, aphids	5.3 ha	Training / Extn activities/NICRA
	Tomato	Late and early blight, blossom end rot, lack of suitable varieties,thrips.	6.3 ha	Training / Extn activities/NICRA
	Mulberry	Nutrient deficiency, lack of suitable varieties and tree mulberry	5.7 ha	Training / Extn activities
	Dry land Horticulture crops	Lack of knowledge on Dry land Horticulture crops (Meliadubia, Jamun, Cashew, Amla)	2.3 ha	Training / Extn activities/NICRA
	Dairy farming	Scarcity of fodder, lack of availability azolla, low yield, foot and mouth disease, Nutrient deficiency.	92 Nos.	FLD, Training / Extn activities

Cluster C Kumbarahalli SiraTaluk				
Agriculture	Ragi	Lack of awareness about season suitable and high yielding varieties, Use of Local varieties, Lack of knowledge of drought tolerant varieties, bacterial leaf spot, fungal blast, blight disease, low fodder yield and lack of knowledge on processing and value addition	49.2 ha	FLD Training / Extn activities
	Foxtail millet	Use of Local varieties, Lack of Knowledge on High yielding varieties and lack of knowledge on processing and value addition	15.3 ha	FLD Training / Extn activities
	Horse gram	Use of Local varieties, powdery mildew	8.2 ha	
	Groundnut	Use of Local varieties, fungal blast, wildbore problem and bacterial leaf spot.	12.2 ha	FLD Training / Extn activities
	Bengal gram	Use of Local varieties, leaf eating cater filler problem	4.3 ha	
	Redgram	Fusarium wilt, low yielding varieties, pod borer	9.4 ha	FLD Training / Extn activities
	Inter crops: Musturd, Castor, Niger, Green gram	Use of local varieties, lack of knowledge on improved varieties	18.4 ha	Training / Extn activities
Horticulture	Mango	Powdery mildew, Pests and disease (fruit fly damage), nutrient deficiency, Malformation , flower and fruit dropping problem, Lack of knowledge on Pre and post-harvest management problems, Lack of knowledge on Safe ripening , Packing and market linkage	5.1 ha	Training / Extn activities
	Cashew	Die back disease problem, Tea Mosquito bug, powdery mildew,	2.3 ha	Training / Extn activities
	Pomegranate	Bacterial blight, leaf spot disease, sucking pest problem	2.2 ha	FLD/Training / Extn activities
	Arecanut	Nut splitting, Nutrient deficiency, mite infestation, bud rot disease, mono cropping, ganoderma wilt, idimunde disease	3.3 ha	Training / Extn activities
	Coconut	Nutrient deficiency, Fusarium (panama) wilt and Pests, stem bleeding, button shredding	2.7 ha	Training / Extn activities
	Chilli	Not aware about disease resistant hybrids	4.1 ha	FLD /Training / Extn activities
	Tomato	Less knowledge about improved hybrids, insect pest and disease infestation, late and early blight, thrips	3.4 ha	Training / Extn activities

	Okra	Less knowledge on improved suitable varieties, yellow mosaic virus	1.2 ha	FLD/Training / Extn activities
	Flower crops: Chrysanthemum, buttons, Kakada, marigold	Lack of knowledge on improved varieties, low price, wilt, stem borer and blight, leaf spot, mites	4.7 ha	Training / Extn activities
Dairy Component	Desi cow, sheep, goat	Immunization problems, foot and mouth disease, low milk yield, fodder scarcity	210 Nos.	
	Fodder crops	Lack of knowledge on improved fodder crops		
Cluster D Shivanagere, Madhugiri Taluk				
	Ragi	Lack of suitable varieties, Bacterial leaf spot, Fungal blast, Low, water stress, Fall army worm, Low fodder yield.	95.71 ha	FLD Training / Extn activities
	Maize	Fall Army worm, Cob Borer	35.4 ha	FLD Training / Extn activities
	Ground nut	Lack of suitable varieties, wild borer, Aphids Caterpillar and leaf blight	20.4 ha	Training / Extn activities
	Redgram	Fusarium wilt, varieties, SMD, Pod borer, Flower dropping	10.7 ha	FLD Training / Extn activities
	Horse gram	Local varieties, Powdery Mildew	7.8 ha	FLD FLD Training / Extn activities
	Mango	Mango hopper, Powdery Mildew, Fruit fly, Fruit dropping.	4.3ha	FLD Training / Extn activities
	Banana	Sigatoka leaf spot, Mealybug, Banana skipper, Black spot on fruits, low bunch yield.	3.8 ha	FLD /Training
	Lime	Citrus canker, No Bahar treatment, Wilting	2.0 ha	Training / Extn activities
	Coconut	Mites, Stem bleeding, Ganoderma wilt, Monocropping, Button shedding, Rhinoceros beetle	3.8 ha	Training / Extn activities/NICRA
	Aster	Lack of suitable varieties, wilt, MLOS, stem borer and blight	2.7 ha	Training / Extn activities/NICRA
	Kakada	Mites, No pruning, Low yield, Bud Borer, Wilting	5.7 ha	Training / Extn activities
	Betel vine	Leaf curling in Summer, leaf spot, Powdery mildew, No suitable staking tree.	1.0 ha	Training / Extn activities/NICRA
	Leafy vegetables	Local varieties	1.0 ha	Training
	Chilli	Not aware about disease resistant hybrids	3.2 ha	FLD / Training
	Tamarind	Tea mosquito bug, Lack of knowledge on Processing and Value addition	3.3 ha	EDP/ Training

	Dry land horticulture	Lack of knowledge on Dry land Horticulture crops (Meliadubia, Jamun, Cashew, Amla)	2.3 ha	Training
	Dairy farming	Mastitis, Scarcity of fodder, low yield, foot and mouth disease, Bugs in Buffalo, Nutrient deficiency.	285 Nos.	FLD/Training / Extn activities
Cluster E Madhavarayanapalya, Pavagada Taluk				
	Maize	Fall army worm, Cob borer, Low yield	15.5 ha	FLD/Training / Extn activities
	Cotton	Leaf reddening, Boll worm and Sucking pests	70.7 ha	Training / Extn activities
	Ground nut	Lack of suitable varieties, Wild borer and Stem rot	20.2 ha	FLD/Training / Extn activities
	Red gram	Pod borer, Fusarium wilt, Lack of short duration varieties, SMD	15.4 ha	FLD/Training / Extn activities
	Paddy	Water stress, Leaf and Neck blast, Nutrient deficiency	2.3 ha	Training / Extn activities
	French bean	Virus, leaf miner, rust, Lack of suitable varieties	1.7 ha	FLD/Training / Extn activities
	Chilli	Low yield, Powdery mildew, Lack of Varieties, Murda complex, Fruit rot, Water stress.	15.8 ha	FLD/Training / Extn activities
	Tamarind	Canker infestation , Harvesting and processing problems and marketing and value addition	40.5 ha	EDP/Training / Extn activities
	Mulberry	Nutrient deficiency, lack of suitable varieties and tree mulberry, Root knot nematode and mealy bugs	5.8 ha	Training / Extn activities
	Dairy farming	Scarcity of fodder, lack of availability azolla, low yield, foot and mouth disease, Nutrient deficiency and	62 Nos	FLD/Training / Extn activities

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	Mustard	Lack of suitable oilseed crop during Rabi season as an alternative crop	Assessment of Mustard varieties as alternative Oilseed Crops	Pusa -25	IARI, New Delhi	Pusa 25 Seeds	2 kg	225	03	3000	Growth parameters, Test weight, Yield, Oil Content (%)	SS, PP, Horti	
				Pusa -28		Pusa 28 Seeds	2 kg	225					
				Pusa -30		Pusa 30 Seeds	2 kg	225					
				Pusa -31		Pusa 31 Seeds	2 kg	225					
5.2	Onion	Non availability of Rabi varieties, Low yield & Poor storability	Assessment of Onion varieties for Rabi	ArkaNiketan,	IIHR, Bengaluru	Seeds	1 kg	2,000	03	12,600	Plant Height(cm), No of leaves, Bulb size (cm), Purple blotch incidence (%), Yield (q/h) Economics B;C ratio	Horti SS PP AgrilExt n	
				Bheema Shakti		DOG, Pune	Seeds:	1 kg					1,200
				NHRDF Red L-28		NHRDF, Nasik	Seeds	1 kg					1,000

5.3	Cucumber	Incidence of Downy mildew	Assessment on Management of Downy mildew in Cucumber	Spraying of Metalaxyl + Mancozeb(0.2%) and Cymoxanil+ Mancozeb (0.2%)	UASB & UHS Bagalkot	<i>Trichoderma harzianum:</i>	10kg	2000	03	14,790	Length of the branches, Number of Flowers, No. of Fruits, Disease severity (%), Yield, B:C ratio	PP Horti SS Agril. Extn
				Seed treatment with Captan (2g/kg seeds) Spray of Mancozeb (0.2%) & Cymoxanil+ Mancozeb (0.2%)	IIHR Bengaluru	Metalaxyl:	0.2 Kg	500				
				Seed treatment with Metalaxyl (2g/kg seeds)	IIHR, Varanasi	Metalaxyl+ Mancozeb:	0.5 Kg	800				
				2. Trichoderma harzianum enriched Farm Yard Manure (@ 1 kg / 100 kg FYM) application 3. Prophylactic Spray with Mancozeb (0.25%) followed by Spraying of Metalaxyl+ Mancozeb (0.25%) and Dimethomorph (0.1%)+Mancozeb (0.2%)		Dimethomorph + Mancozeb	1.2 Kg	1630				

5.4	Kakada	Highly perishable flowers, Low price during glut & Lack of knowledge on storage	Assessment of different storage methods to extend shelf life of Jasmine (Kakada)	Storage in wet gunny bags	Farmers Practice							Shelf life (hrs.) Physiological loss in weight (%) Freshness Index (%) Colour Retention Index (%)	HS, Horti, SS, PP
				Storage in Polythene bags (200µ) with 4% boric acid treatment	UAS Raichur	Boric acid	0.5 kg						
				Storage in Polythene bags(200µ)	TNAU	Polythene bags (200 &300µ)	5kg	1500	03	4,500			
				Storage in Polythene bags(300µ)	TNAU								
5.5	Enterprises	Unscientific disposal of Areca Husk & Lack of Knowledge on better utilization of Areca Husk	Assessment of different compost cultures in composting of Areca Husk	Cow dung Slurry	FP							No. day taken for decomposing and C:N ratio analysis	Agril. Extn SS, Horti
				Arka Decomposer	IIHR, Bengaluru	Arka Decomposer	5 kg						
				Compositing Culture	UASD	Decomposer	5 kg	1050	03	3,150			
				Organic Decomposer	NCOF, UP	Decomposer	50 ml						

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													
		Ragi	Intermittent drought & blast incidence	Enhancement of Productivity of Finger millet by drought tolerant variety ML 365 Seeds - 12.5kg /ha. FYM 10 t/ha. Zinc Sulphate - 12.5 kg /ha. Borax 10kg / ha.	ML 365	-	UAS B	Ragi –ML 365 Bio fertilizers, Zinc Sulphate and Borax	5 kg 1 kg 5 Kg 4 Kg.	1290	10	12900	Plant height, No. of tillers, fodder yield, and Yield (q/ha)	SS, Horti, HS
		Paddy	Water scarcity, Low income & High cost of cultivation	Demonstration of water saving Aerobic Paddy Paustic-9 Seeds -7.5kg /ha. FYM 10 t/ha. Green manure - 5t/ha. RDF 100:50:50 kg NPK / ha.	Paustic-9	-	UAS B	Aerobic paddy Paustic-9 Bio fertilizers and Zinc Sulphate	6 kg 1 kg 8 Kg.	820	05	4100	Plant height, No. of tillers, fodder yield, and Yield (q/ha)	SS, Horti, PP

				Zinc Sulphate – 20 kg /ha.										
		Maize	Downy mildew, Turcicum leaf blight, Stem borer incidence & Fall Army worm	IPDM in Maize Demonstrati on <i>Turcicum</i> leaf blight tolerant hybrid: MAH-14-5, FYM 10 t/ha. RDF 150:75:40 kg/ha. Application of ZincSulphat e 10 kg/ha. Seed treatment with Metalaxil M + Mancozeb (4g/kg of seeds) for Downy mildew Poison Bait . Installation light traps.		MAH-14-5	UASB	Seeds Bio fertilizer Zinc Sulphate Metalaxyl+ Mancozeb Chlropyrio phos	6 Kg 10 Kg 4 Kg. 100g 2.5 ltrs	3440	10	34400	Plant height, Cob size, Cob length, % Stem borer, Downy mildew and Turcicum leaf blight incidence, Yield, B:C ratio	PP, Horti, SS
6.2	Millets	Navane	Reduction in area under minor millets due to lack of knowledge on nutritional value and non availability of processing	Demonstrati on of Foxtail millet Variety DHFt 109-3 for Value Addition Seeds 10kg/ha. FYM 6.25 t/ha.	DHFt 109-3	-	UAS D	Navane– DHFt 109-3 Packing materials Labels	5kg 5 kg 200 No.	2500	10	25000	Yield parameters,economics, BCR, Consumer Acceptabilit y & Market linkage	HS Horti, SS

			units	RDF 40:40:0 NPKkg/ha.										
6.3	Oilseeds	Castor	Local variety, Low oil content & Less yield	Demonstration of Castor Variety DCH-177 Seeds 12.5kg/ha. FYM 5 t/ha. RDF 37.5:37.5:25 NPK kg/ha.	-	DCH 177	IIOR, Hyderabad	Seeds	5kg	-	10	-	Plant Height, No. of branches, No. of bunches, Yield and BC Ratio	PP, Horti, SS
6.4	Pulses	Redgram	Local variety, Sterility Mosaic Virus & Less yield	Demonstration of Redgram Variety BRG-5 Seeds 12.5kg/ha. FYM 7.5 t/ha. RDF 25:50:25 NPK kg/ha. Sulphur 20 kg/ha. Zinc Sulphate 12.5kg/ha.	BRG-5	-	UAS, Bengaluru	Seeds	5 kg.	400	10	4000	Plant Height, No. of branches, No. of pods, Yield and BC Ratio	PP, SS, Horti
6.5	Commercial crops													
6.6	Horticultural crops													
	Vegetables	French Bean	Soil & PP related issues in Chemical farming & High cost of cultivation	Demonstration of Organic farming practices in French bean seeds- 40 kg/ha,	Arka Suvidha	-	IIHR B	French bean seeds AMC Neem cake Neem soap	8 kg 6 kg 50 kg 2 kg	4360	05	21800	Plant height, Root length, yield and soil nutrient status	SS, Horti PP

				AMC - 15 kg/ ha, Neem cake- 250 kg/ ha, Neem soap - 10 kg/ ha, Jeevamruta – 2000 lit/ha										
		Chilli	Low yield, Local varieties, Imbalanced nutrition, Disease incidence– Mosaic virus & Powdery mildew	Demonstration of Chilli Variety Arka Harita - F1 hybrid- Green and turn red on maturity, tolerant to powdery mildew and CMV duration 180 days. FYM – 20 tons /ha, RDF : 150:75:75 NPK kg/ha AMC : Drenching and Spraying @ 10ml /lit (Protray and after transplanting with interval of 15 days)- Vegetable Special- 3gm /lit at starts at flower initiation stage and regular 15	-	Arka Harita	IIHRB	Seeds Bio fertilizer AMC Yellow Sticky traps Vegetable special Neem Soap	30g 1 lit 10 Nos 2 kg 2 kg	2000	10	20000	Plant height(cm), No of fruits /plant, Fruit weight (g), Mosaic Incidence, Yield (t/ha)	Horti, PP, SS, Agril. Extn.

				days interval Yellow sticky traps @ 25 sheets /ha -Neem Soap @7 gm /lit										
		French Bean	Low yield, Use of local varieties, Non use of disease (YMV) resistance varieties & Improper Nutrient Management	Demonstration of French Bean Variety Arka Arjun(YMV resistant, bush type, pods round and stringless) - FYM – 25 tons /ha, RDF : 63:100:75 NPK kg/ha -AMC : Drenching @ 20g /lit (10 DAS) -Vegetable Special- 2gm /lit at starts at flower initiation stage and regular 15 days interval - Neem soap : @ 7 g/lit	Arka Arjun	-	IIHRB	Seeds Bio fertilizer AMC Vegetable special Neem Soap	4 kg 3 Kg 2 kg 1 kg	1950	10	19500	Plant Height (cm), Pod length (cm), Weight (g), No. of pods /plant, Yield (t /ha) and Mosaic Diseases incidence (%)	Horti, SS, PP
		Bhendi	Higher incidence of Bhendi	IPDM in Bhendi ArkaNikitha -F1 hybrid	-	Arka Nikitha	IIHR B	Seeds AMC	1.5 Kg 5	4700	10	47000	Plant height, No. of flowers, No. of fruits,	PP, Horti, SS, Agril.

			yellow vein Mosaic virus & Low yield	(125 -130 days duration, tolerant to Bhendi yellow vein Mosaic and Yields 21-24 t/ha.), RDF125:75:62.5NPK kg/ha. AMC : Drenching @ 10ml /lit Vegetable Special- 2gm /lit at starts at flower initiation stage and regular 15 days interval				Vegetable special	litres 2 kg				Fruit length, BYVM %, Yield and B:C Ratio	Extn.
Flowers	China aster	Small size flowers, Less shelf life (days), Less attractive colour & Low yield	Demonstration of China Aster Variety ARKA Archana: Deep white colored flowers more attractive than the local white variety. Each plant produces about 40 flowers- RDF : 63:100:75 NPK kg/ha	ArkaArchana		IIHRB	Seeds- Bio fertilizer AMC Neem Soap	150g m 1 kg 1kg	2070	10	20700	Plant Height (cm) Size (cm), Weight (g), No. of Flowers/plant, vase life, Yield (t/ha)	Horti, SS, PP, Agril. Extn.	

				- AMC : Drenching @ 20gm /lit (25 DAT) - Neem soap : @ 7 g/lit										
Fruits	Pomegranate	Low nutrient use efficiency & soil fertility, Severe incidence of blight and wilt and lower yield	Demonstration of AMC liquid and Arka Actino Plus on growth, quality and yield of Pomegranate FYM 10 t/ha. RDF 400:200:200 NPK g/plant, AMC liquid: 10 ml / 1 lit of water spraying after bud initiation at 15 days interval ACT : 20 g / lit of water and 3 lit of the mixture is applied to the root zone Neem soap: 7 g/ lit spraying to tree for sucking pest Pheromone	Bhagawana		IIHRB	AMC liquid ACT Neem soap Pheromone traps	35 lit 15 kg 5 kg 8 Nos.	12650	05	63250	Growth parameters, Disease Incidence- Blight, Wilt, Yield and Economics	SS, Horti, PP	

				traps: 8 Nos. / acre for fruit flies										
Plantation crop	Arecanut	Monocropping, Low nutrient status and low yield, Button shedding, Stem bleeding & Ganoderma wilt	ICM in Arecanut FYM 20 kg/plant, RDF 100:40:140 NPK g/plant, Neem cake-2kg per tree, French bean seeds-10kg/acre, Borax-30 g per tree, COC- 10g per lit water, Hexaconazole -3 ml per 100ml water	Local	-	CPCRI Kasargod	French bean seeds 10 kg Borax 12 kg COC 2 kg Hexaconazole 2 lit	6200	05	31000	Areca nut and intercrop yield, Disease Incidence, Economics	SS, Horti, PP, Agril. Extn.		
Aromatic crops	Lemon grass	Low rainfall & Reducing ground nut area with no proper alternate crops	Demonstration of Aromatic crop Lemon grass Variety Krishna Medium tall, high tiller and herb with high oil yielding Citral type High yield of bio mass (25-28 Mt/ha) with	Krishna		CIMAP Bengaluru	No. of Slips	5000	5000	05	25000	Growth, Plant height, herbage and oil yield	Horti, SS, PP	

				high oil yield (230-250 kg/ha). Suitable for plains FYM 10 t/ha., RDF 250:100:40 NPK kg/ha.,										
		Palmarosa	Low rainfall & Reducing ground nut area with no proper alternate crops	Demonstration of Aromatic crop- Palmarosa- PRC1 PRC1 : High tall , high tiller and herb with high oil yielding Oil yield - 400 q/ha; Oil yield -225 kg/ha, geraniol 75-80% FYM 10 t/ha., RDF 60:50:40 NPK kg/ha. @3 splits/year	PRC 1	-	CIMAP Bengaluru	Seeds	0.5 kg	1500	05	7500	Growth, Plant height, herbage and oil yield	Horti, PP, SS
6.7	Livestock	Poultry	Lack of awareness on improved poultry bird	Demonstration of Khadaknath poultry bird	khadaknath poultry	-	TANVAS	Iron cage, Chicks, Mineral, mixture and Vaccination	-	9000	5	45000	Growth, Weight, Taste, Economics and Health parameters	Agril. Extn, SS, PP

		Fodder	Non availability of suitable fodder crop for higher yield	Demonstration of Fodder sorghum CoFS 29	CoFS 29	-	TNAU Coimbatore	Seeds – 10kg AMC –20 kg	1 kg 2 kg	780	10	7800	No. of tillers /hill, Milk yield liters /day (Before/After), Yield t/ha ,	Agril. Extn. SS, Horti, PP
		Fodder	Non availability of suitable fodder crop for higher yield	Demonstration of Marvel Grass Perennial Fodder <i>Dicanthium annulatum</i>	Marvel Grass	-	NIANP, Bengaluru	Root Slips 1000	Root Slips 200	-	-	-	Milk yield liters/day (Before/After), Yield t/ha ,	Agril. Extn. SS, PP, Horti
		Fodder	Non availability of suitable fodder crop for higher yield	Demonstration of Fodder Hybrid Napier	Super Napier	-	NIANP, Bengaluru	Stem Cutting – 200	4 Stem Cutting	-	-	-	Milk yield liters/day (Before/After), Yield t/ha ,	Agril. Extn. SS, PP, Horti
6.8	Fisheries													
6.9	Others													
		Ragi	Less acceptability of value added products from existing varieties due to brown colour	Demonstration of Finger millet Variety KMR 340 for Value Addition Seeds - 12.5kg /ha. FYM 10 t/ha. Zinc Sulphate - 12.5 kg /ha. Borax 10kg / ha.	KMR-340	-	UAS B	Ragi – KMR-340 Bio fertilizers Zinc Sulphate Borax Packing materials Labels	5kg 1 Kg. 5 Kg. 4 kg 5 kg 200 No.	3420	10	34,200	Yield parameters, economics, BCR, Consumer Acceptability & Market linkage	HS, SS, Horti
	Enterprise	Tamarind	Lack of knowledge on processing	Tamarind :Value Addition,	Processing and value		TNAU	Weighing scale Sealing	01 01	10000	03	30000	Quantity of different value added	HS, SS, Horti

			and value addition, low income	Branding and Market linkage	addition			Machine Packing materials Labels	2 kg				products, BCR, consumer acceptability and Income
									200 No.				

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						
		Onion	OFT	ICM in Vegetables	1	30	SMS (Horti) SMS (SS) SMS (PP)
		Redgram	FLD	Improved production technology for red gram	2	60	SMS (PP) SMS (SS)
		Groundnut	-	Integrated Crop Management in Groundnut	1	30	SMS (PP) SMS (SS)
		Ragi	FLD	Good Agricultural practices in Ragi	1	30	SMS (PP) SMS (SS)
		Paddy	FLD	Good Agricultural practices in Aerobic Paddy	1	30	SMS (SS) SMS (PP)
		Foxtail Millet	FLD	GAP and Value Addition in Foxtail Millet	1	30	SMS(HS) SMS (SS)
		Chikpea	FLD	IPDM in Chikpea	1	30	SMS (Horti) SMS (SS) SMS (PP)
7.2	Horticulture production						
		Vegetable crops	-	Precision farming	1	30	SMS (Horti) SMS (SS) SMS (PP)
		Arecanut	FLD	Good Agricultural practices in Arecanut	1	30	SMS (SS) SMS (Horti) SMS (PP)
		Flowers	FLD	Advanced Production practices of Commercial	1	30	SMS (Horti) SMS (Agril. Extn.)

				flowers			
		Dry land Horticulture	-	Advanced Production practices in Dry land horticulture	2	60	SMS (Horti) SMS (SS) SMS (Agril. Extn.)
		Chilli	FLD	Advanced Production practices in Chilli	1	30	SMS (SS) SMS (Horti) SMS (PP)
		Aromatic crops	FLD	Good Agricultural practices in Aromatic crops	1	30	SMS (Horti) SMS (SS) SMS (PP)
		Banana	-	Good Agricultural practices in Banana	1	30	SMS (Horti) SMS (SS) SMS (PP)
		Betelvine	-	Good Agricultural practices in Betelvine	1	30	SMS (Horti) SMS (SS) SMS (PP)
		Cashew	-	IPDM in Cashew	1	30	SMS (Horti) SMS (SS) SMS (PP)
7.3	Livestock production						
		Fodder crops	FLD	Recent technologies in forage crops	1	30	SMS (Agril. Extn.) SMS (SS)
		Live Stock Production	-	Hygienic practices for Disease free environment in livestock management	1	30	SMS (Agril. Extn.) SMS (SS)
7.4	Home Science						
		Jasmine	OFT	Production and Post-harvest technologies in Jasmine	1	25	SMS (HS) SMS (Horti) SMS (PP)
		Tamarind	EDP	Tamarind processing and value addition	1	30	SMS (HS) SMS (Horti) SMS (PP)
		Foxtail Millet	FLD	Processing and value addition in Minor millets	1	30	SMS (HS) SMS (PP)
		White Ragi	FLD	Processing and Value addition in Ragi	1	30	SMS (HS) SMS (Horti) SMS (PP)

		Leafy vegetables	FLD	Technologies for Extended storage life of leafy vegetables	1	20	SMS (HS) SMS (Horti) SMS (PP)
7.5	Plant Protection						
		Arecanut	FLD	IPDM in Arecanut	1	30	SMS (PP) SMS (Horti) SMS (SS)
		Mango	-	IPDM in Mango	1	30	SMS (PP) SMS (Horti) SMS (SS)
		Pomegranate	FLD	Pest & Disease management in Pomegranate	1	30	SMS (PP) SMS (SS) SMS (Horti)
		Bhendi	FLD	IPDM in Bhendi	1	30	SMS (PP) SMS (SS) SMS (Horti)
		Maize	FLD	IPDM in Maize	1	30	SMS (PP) SMS (SS) SMS (Horti)
		Cotton	-	IPDM in Cotton	1	30	SMS (PP) SMS (SS) SMS (Horti)
7.6	Production of inputs at site						
		Vermicomposting	-	Production of vermin composting	1	30	SMS (SS)
7.7	Soil health and fertility						
		Pomegranate	FLD	ICM in Pomegranate	1	30	SMS (SS) SMS (Horti) SMS (PP)
		Soil Health Management	-	Organic farming in horticulture crops	1	30	SMS (SS)
		Frenchbean	FLD	Importance of Soil & water testing & Organic Farming	1	30	SMS (SS) SMS (Horti)

7.8	PHT and value addition						
		Processing & Value addition	-	Processing & value addition in Horticultural Crops	1	30	SMS (HS) SMS (Horti) SMS (Agril. Extn.)
		IGA	-	Processing & value addition in minor millets	1	30	SMS (HS) SMS (SS)
7.9	Capacity building/ group dynamics						
7.10	Farm mechanization						
7.11	Fisheries production technologies						
7.12	Mushroom production						
7.13	Agro forestry						
7.14	Bee keeping						
7.15	Sericulture						
		Tree Mulberry	-	Tree Mulberry Management	1	30	SMS (Agril. Extn.) SMS (Horti)
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						
8.2	Horticulture production						
		Coconut	-	FOCT in coconut	1	20	SMS (Horti) SMS (SS) SMS (PP) SMS(Agril.Extn.)
8.3	Livestock production						
8.4	Home Science						
8.5	Plant protection						
8.6	Production of inputs at site						
8.7	Soil health and fertility						
8.8	PHT and value addition						
		Ragi	-	Processing & Value Addition to Ragi	2	50	SMS (HS) SMS (SS)

8.9	Capacity building/ group dynamics						
8.10	Farm mechanization						
8.11	Fisheries production technologies						
8.12	Mushroom production	Mushroom	-	Mushroom production and Value addition	5	150	Head SMS (HS) SMS (SS)
8.13	Agro forestry	Agri. Silvi – Horti.	-	Tree based farming system in Agri. Silvi – Horti.	1	30	Head SMS (Horti) SMS (Agril.Extn.)
8.14	Bee keeping	Honey bee	-	Honey bee rearing	6	250	Head SMS (Agril.Extn.) SMS (Horti)
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	Advanced production technologies in agricultural crops	1	30	SMS (SS) SMS (PP)
9.2	Home Science				
		Health & Nutrition for adolescent girls and women	1	20	SMS (Horti) SMS (HS)
		IGA for SHG groups	1	20	SMS (HS)
9.3	Capacity building and group dynamics				
		EDP skills and group dynamics for better performance of FPOs	1	30	Head SMS (Agril.Extn.)
9.4	Horticulture				
		Organic practices in Horticultural crops	1	20	SMS (SS) SMS (Horti) SMS(Agril.Extn.)
9.5	Livestock production and management				
9.6	Plant protection				
		IPDM in Coconut	1	20	SMS (SS) SMS (PP) SMS(Agril.Extn.)
		IPDM in Pomegranate	1	20	SMS (PP) SMS (SS) SMS(Agril.Extn.)

9.7	Farm mechanization				
9.8	PHT and value addition				
9.9	Production of inputs at site				
9.10	Sericulture				
9.11	Fisheries				
9.12	Other, pl. specify				

10. 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						
10.3	Capacity building and group Dynamics						
10.4	Horticulture						

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	130	845	KVK Team
12.2	Diagnostic visits	40	140	KVK Team
12.3	Field days	8	450	KVK Team
12.4	Group discussions	05	550	KVK Team
12.5	Kisangosthies	1	2000	KVK Team
12.6	Film shows	2	260	KVK Team
12.7	Self -Help Groups (SHGs) meetings	5	350	KVK Team
12.8	KisanMelas	1	100000	KVK Team
12.9	Exhibitions	10	2000	KVK Team
12.10	Scientists' visit to farmers fields	25	260	KVK Team
12.11	Plant/soil health/animal health camps	-	-	-
12.12	Farm science club meetings	-	-	-
12.13	Ex-trainees sammelans (Meetings)	-	-	-
12.14	Farmers' seminars/workshops	1	250	KVK Team
12.15	Method demonstrations	25	1325	KVK Team
12.16	Celebration of important days	05	350	KVK Team
12.17	Special day celebrations	-	-	-

12.18	Exposure visits	1	20	KVK Team
12.19	Technology week celebration	1	200	KVK Team
12.20	Farmers Field School (FFS)	-	-	-
12.21	Farm innovators meet	1	200	KVK Team
12.22	Awareness programmes	1	200	KVK Team
12.23	Pre-kharif campaign	-	-	-
12.24	Pre-rabi/summer campaign	-	-	-
12.25	Others, pl. specify	-	-	-

13. Activities proposed as knowledge and resource centre 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	Technology park/ crop cafeteria	Organic nutrition garden (IIHR Arka varieties of Vegetables)	0.022	1	All SMS
13.1.2	Demonstration units	Arka Borer Control	-	1	SMS (PP)
13.1.3	Lab analytical services	-	-	-	-
13.1.4	Technology week	IIHR Technologies	-	1	All SMS
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		IIHR Vegetable varieties	6		SMS (Horti) SMS (SS) SMS (PP) SMS (HS)
			Ragi	6		
			Fox tail millet	2		
			Redgram- BRG5	2		
			Mushroom Spawn	5		
			Vegetable Seed Kit	-	2000	
			Browntop Millet	2		
13.2.2	Planting material					SMS (Horti)
			Mango		8000	
			Guava		6000	
			Tamarind		1000	
			Lime		1000	
			Amla		1000	
			Arecanut Seed nuts		30000	
			Arecanut seedlings		2500	
			Arecanut sprouts		35000	
			Other crop seedlings		2000	
			Mango seedlings /rootstocks		20000	
			Guava seedlings /rootstock		30000	
13.2.3	Bio-products					SMS (SS) SMS (PP)
			Fruit fly traps and Lures	-	5,000	
			NeemSoap	30		
			Pongamia Soap	10		
			Arka Microbial Consortium	20 (Powder) 2000 litres (Liquid)		
			Sealer cum Healer	10		
13.2.4	Livestock strains					SMS (SS) SMS (PP)
			Sheep		4	
13.2.5	Fish fingerlings					
13.2.6	Micronutrient Products		Banana Special	50		SMS (SS)

		Vegetable Special	50		SMS (HS)
		Mango Special	25		
		Citrus Special	15		
13.2.7	Other Products	Amla Squash	500 Litres		
		Amla candy	1		
		Ragi malt	1		

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	Bio Pesticides, Bio control agents & Bio fertilizers	SMS (SS) SMS (PP)
	b. Horticulture	Propagation Techniques in Horticulture Crops, High Densityplanting in Horticulture Crops, Micronutrients in Horticulture Crops, ProtectedCultivation	SMS (Horti) SMS (SS)
	c. Animal Husbandry	Fodder production, Silage, Mineral mixture	All SMS
	d. Fisheries	-	
	e. Agricultural Engineering	-	
	f. Sericulture	-	
	g. Others, pl. specify		
13.3.2	Literature/publication	15	KVK Team
13.3.3	Electronic media	5	
13.3.4	Kisan mobile advisory services	80	
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	CRIDA, Hyderabad	Technology demonstration component -NICRA	<ul style="list-style-type: none"> • Farm ponds -5 Nos. • Institutional arrangements- 2 • Crop production -80 ha • Dry land Horticulture -5 ha • Trench cum bunding - 10 ha 	10 Lakhs	All SMS

14.2	MANAGE, Hyderabad	DAESI Programme	<ul style="list-style-type: none"> • Trainings, Field Visits, Exposure Visits 	8.0 Lakhs	All SMS
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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)
32.34	81.60	97.63	48.37	55.00

15.2 Plan of activities under revolving fund

Sl.No.	Proposed activities	Expected output	Anticipated income (Rs. In lakhs)	Names of the team members involved
15.2.1	Seed Production and Vegetable Seed Kit Production	1800 Kg 2,000 Nos.	12.80	SMS (Horti)
	Arecanut Seed nuts	30000		
15.2.1	Planting material Production	1.06 Lakhs Seedlings	15.50	SMS (Horti)
15.2.3	Arka Microbial Consortium	2,000 Kg 2000 litres	8.30	SMS (SS) SMS (PP)
15.2.4	Micronutrient Special	14,000 Kg	21.0	SMS (SS) SMS (PP)
15.2.5	Soil , Water & Leaf Analysis	3050 Nos.	7.0	SMS (SS)
15.2.6	Neem&Pongamia Soap& Healer cum Sealer	5,000 Kg	7.50	SMS (PP) SMS (SS)
15.2.7	Mango fruit fly trap	5,000 Nos.	5	SMS (SS)
15.2.8	Mushroom Spawn	500 Kg	1.00	SMS (HS) SMS (SS)
15.2.9	Amla Juice/Candy	500 lts/100 Kg		SMS (HS) SMS (Horti)
15.2.10	Ragi Malt	100 Kg		SMS (HS)

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	2,000	SMS (SS)
16.2	Soiltest using mobile analysis kit	-	SMS (SS)
16.3	Water	1,000	SMS (SS)
16.4	Plant	50	SMS (SS)

16.5	Others, pl. specify		
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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	-	-
17.2	Creation and maintenance of relevant database system for KVK	-	-
17.3	Any other (Please specify)	-	-

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

Sl. No	Activities planned	Remarks if any
	NIL	

19. Farmers Field School (FFS) planned

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

20. Integrated Farming System(IFS) planned

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

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

(Rs.)

Sl.No.	Particulars	Sanctioned	Released	Expenditure
21.1	(A). REVENUE (Recurring Contingencies)			
21.1.1	Pay & Allowances	13000000	12665660	11484808
21.1.2	Traveling allowances	95000	95000	64533
21.1.3	Contingencies			
21.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	331000		416387
21.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	275000		358763
21.1.3.c	<i>Food/refreshment for farmers/extension personnel @ Rs.150/person/day</i>	125000		94851
21.1.3.d	<i>Training material (need based materials and equipments for conducting the training)</i>	25000		35790
21.1.3.e	<i>Frontline demonstrations</i>	178000		124720
21.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	51000		46390
21.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0		0
21.1.3.h	<i>Training of extension functionaries</i>	25000		20000
21.1.3.i	<i>Extension activities/services</i>	50000		35500
21.1.3.j	<i>Farmers' Field School</i>	30000		0
21.1.3.k	<i>EDP (2 Nos.) / Innovative activities</i>	30000		30489
21.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	25000		25000
21.1.3.m	<i>Maintenance of building</i>	0		0
21.1.3.n	<i>Farmers Conclave, KVK Conference</i>	0		0
21.1.3.o	<i>Video production</i>	0		0
21.1.3.p	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>	5000		2500
	Total Recurring	1150000	861667	1190390
21.2	(B). CAPITAL (Non-Recurring Contingencies)			
21.2.1	Equipments & Furniture			
21.2.2	Works			
21.2.3	Vehicle			
21.2.3 a	Four wheeler (replacement)			
21.2.4	Library			
	Total Non Recurring			
21.3	(C). REVOLVING FUND			
	GRAND TOTAL (A+B+C)	1150000	861667	1190390

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

Sl.No.	Particulars	BE 2019-20 proposed (Rs. in Lakhs)
22.1	(A). REVENUE (Recurring Contingencies)	
21.1.1	Pay & Allowances	175.00
22.1.2	Traveling allowances	2.00
22.1.3	Contingencies	
22.1.3.a	<i>Stationery, telephone, postage and other expenditure on office running, publication of Newsletter</i>	6.00
22.1.3.b	<i>POL, repair of vehicles, tractor and equipments</i>	4.50
22.1.3.c	<i>Food/refreshment for farmers / extension personnel @ Rs.150/person/day</i>	1.75
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>	2.00
22.1.3.f	<i>On farm testing (OFTs)/Technology Assessment</i>	0.50
22.1.3.g	<i>Integrated Farming System (IFS) (Min. 5 Units)</i>	0.00
22.1.3.h	<i>Training of extension functionaries</i>	0.25
22.1.3.i	<i>Extension activities/services</i>	1.00
22.1.3.j	<i>Farmers' Field School</i>	0.00
22.1.3.k	<i>EDP (2 Nos.) / innovative activities</i>	0.00
22.1.3.l	<i>Soil & water testing & issue of soil health cards</i>	0.25
22.1.3.m	<i>Maintenance of building</i>	3.00
22.1.3.n	<i>Library (Purchase of Journals, Periodicals, News Papers & Magazines)</i>	0.05
22.1.3.o	<i>Others, pl. specify</i>	
	Total Recurring (A)	196.80
22.2	(B). CAPITAL (Non-Recurring Contingencies)	
22.2.1	Equipments & Furniture	2.00
22.2.2	Works	10.00
22.2.3	Vehicle	0.00
22.2.3.a	Four wheeler (replacement)	0.00
22.2.4	Library	1.00
	Total Non Recurring (B)	13.00
	Grand Total (A + B)	209.80