ACTION PLAN REPORT-2023-24
ICAR-KVK, TUMAKURU-II, ICAR- IIHR, BENGALURU
ICAR-ATARI, ZONE –XI, HEBBAL, BENGALURU

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: 0816-2243175 E-MAIL: kvk.tumakuru2@icar.gov.in , iihrkvk@gmail.com
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.iihr@icar.gov.in Website: www.iihr.res.in
1.3	Year of sanction	:	2009
1.4	Website address of KVK and date of last update		https://kvktumakuru2.icar.gov.in/ , March 2023

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	1,72,200	02.08.2013	Permanent
2.2	Subject Matter Specialist	Sri K.N. Jagadish	Agril.Extn.	Level 11	85,800	17.11.2009	Permanent
2.3	Subject Matter Specialist	Sri P.R.Ramesh	Soil Science	Level 11	85,800	17.11.2009	Permanent
2.4	Subject Matter Specialist	Sri Prashanth J.M	Horticulture	Level 11	85,800	24.11.2009	Permanent
2.5	Subject Matter Specialist	Sri B. Hanumanthe Gowda	Plant Protection	Level 11	85,800	02.12.2009	Permanent
2.6	Subject Matter Specialist	Mrs. RadhaR.Banakar	Home Science	Level 11	85,800	05.12.2009	Permanent
2.7	Subject Matter Specialist	Dr. Somashekar	Pant Breeding	Level 11	85,800	07.12.2009	Permanent

2.8	Programme Assistant (Computer Programmer)	Mrs. Jyoti Appu Naik	Computer Science	Level 7	55,200	30/09/2009	Permanent
2.9	Programme Assistant (Farm Manager)	Shri. Sanna Manjunath	Farm Manager	Level 7	55,200	01/10/2009	Permanent
2.10	Programme Assistant (Lab Assistant)	Sri Shashidhara K N	Crop Physiology	Level 6	47,600	17/10/2012	Permanent
2.11	Accountant/Superintendent	Vacant	-	-	-	-	Vacant
2.12	Stenographer	Mrs.VedaKurnalli	Stenographer	Level 6	39,900	17/02/2010	Permanent
2.13	Driver 1	Sri M.H.Ningappa	Driver	Level 3	35,900	30/12/2009	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 2022-23

Date	Major recommendations	Status of action taken in brief	Reasons for no actions, if any
25.01.2023	Use of Arecanut husk need to be encouraged as mulch to retain the soil moisture in different crops, especially in plantation crops.	SAC conducted in the month of January 2023	SAC conducted in the month of January, actions will be taken in 2023-24
	Demonstrations of the Fish - Gift Tilapia is being promoted through different organizations. Hence that can be taken up by the KVK also.		
	Yield of Ground nut variety Kadri lepakshi, in comparison with the K-6 Groundnut variety need to studied		
	Literatures related to productions of millets need to be produced, as this year 2023 is the International Year of Millets.		
	Promotion of alternate oilseed crops like Sunflower, Mustard, etc.		
	Mobile based application for farmers who want to take up specific crops. So that, they		

	shall decide the crops based on the area sown, in subsequent season to get the higher profit.		
	Literature related to coconut and areca nut husk waste management has to be brought by KVK.		
	Request for alternative fruit crops that can be taken up in the district other than Tamarind.		
	Release of folders from KVK, containing the different cultivation practices of recent improved vegetable varieties/hybrids including their yield and economic parameters.		
	More support for FPOs from the KVK is sought.		
	In coconut and chilli, integrated pests and Diseases Management may be taken up instead of new varieties or hybrids.		
	In Pigeon pea, Instead of BRG-5, it was advised to take up the BRG-3 variety.		
	It was also suggested to take up the intervention of introducing green fodder in coconut orchards.		
	Taking up of FLDs on control of Rugose white fly in Coconut garden		
	Intercropping with vegetables in Arecanut garden were also suggested.		

4. Details of operational areas proposed during 2023-24

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.)***
Mashanapura, Timmarajanahalli, Gollarhatti-Tumakuru Taluk	Ragi	Non adoption of variety suitable for dry spells, blast resistant	38.4 ha	FLD, CDP
	Arecanut	Monocropping, Nut Splitting, Anabe Roga, Hide Munde Roga, Low Yield	20.4 ha	CDP, MD
	Coconut	Monocropping, Nut dropping, Stem bleeding, Ganoderma, White fly, Low Yield	12.3 ha	CDP,MD
	Fishery	Mono culture, improper utilization of space, low yield	8.5 ha	FLD
	Groundnut/Red gram	Mono cropping, Drought, dry spells, erratic rain fall	6.1 ha	OFT,FLD
	Fodder	Non adoption of multi cut, high yielding, year long fodder	6.7 ha	FLD
	Pepper	Local variety, quick wilt, leaf blight, sucking pest and low yield	4.7 ha	FLD,CDP
	Agro Forestry	Lack of Awareness on Agroforestry	4.6 ha	CDP,MD
Marenayakanahalli, Boodagavi, Junjuramanahalli, Negalaal, C.Timmanahalli-Koratagere Taluk	Ragi	Non adoption of variety suitable for dry spells, blast resistant	40.52 ha	FLD, CDP, EDP
	Maize	Low Nitrogen use efficiency	15.4 ha	FLD, CDP
	Groundnut/Red gram	Mono cropping, Drought, dry spells, erratic rain fall	12.4 ha	CDP
	Bottle gourd	Multiple diseases result in low yield	12.8 ha	FLD, CDP
	Chilli	Diseases susceptible private hybrids	8.8 ha	FLD, CDP
	Fodder	Non adoption of multi cut, high yielding, year long fodder	10.41 ha	FLD, CDP
	Fishery	Mono culture, improper utilization of space, low yield	7.2 ha	FLD, CDP

	Coconut	Monocropping, Nut dropping, Stem bleeding, Ganoderma, White fly, Low Yield	12.5 ha	CDP,MD
	Arecanut	Monocropping, Nut Splitting, Anabe Roga, Hide Munde Roga, Low Yield	10.8 ha	CDP,MD
	Brinjal	Bacterial Wilt, Shoot and Fruit borer, flower dropping, Low quality and yield	9.2 ha	FLD, CDP
	Adolescent girls/Women	Iron deficiency	15.7 ha	FLD, CDP
	Tuberose	Nematode susceptible, poor yield and less vase life	5.3 ha	FLD
	Chrysanthemum	Small size flower, less shelf life, leaf blight, wilting and low yield	6.3 ha	FLD, CDP
	Jasmine	Flower Borer, Mites, Virus	5.7 ha	CDP
	Mango	Low yield, Flower dropping, Marketing	2.3 ha	CDP
	Tamarind	T-mosquito bug, Marketing	92 Nos.	CDP,MD
Edigaradasarahalli, Tanda, Yemmerahalli, Hegganahalli, Gollarahatti-SiraTaluk	Ragi	Non adoption of variety suitable for dry spells, blast resistant	49.2 ha	FLD
	Maize	Low Nitrogen use efficiency	15.3 ha	FLD
	Groundnut	Non adoption of drought tolerant, HY varieties	8.2 ha	OFT
	Red gram	Mono cropping, Drought, dry spells, erratic rain fall	12.2 ha	FLD
	Chilli	Diseases susceptible private hybrids	4.3 ha	FLD
	Coconut	Poor soil condition, soil fertility, weed menace	9.4 ha	FLD
	Tamarind	T-mosquito bug, Marketing	18.4 ha	CDP,MD
	Fodder	Non adoption of multi cut, high yielding, year long fodder	5.1 ha	FLD,CDP
	Chrysanthemum	Small size flower, less shelf life, leaf blight, wilting and low yield	2.3 ha	FLD, CDP
	Marigold	Leaf blight, leaf curl, low yield	2.2 ha	CDP
	Adolescent girls/Women	Iron deficiency	3.3 ha	FLD, CDP
	Jackfruit	Lack of knowledge on processing, value addition and Marketing	2.7 ha	EDP,CDP
Chambenahalli, Rantawala, Sajjehosahalli,	Ragi	Non adoption of variety suitable for dry spells, blast resistant	95.71 ha	FLD, CDP
	Maize	Low Nitrogen use efficiency	35.4 ha	FLD, CDP

Gutte,Honnapura- Madhugiri Taluk	Groundnut/Red gram	Mono cropping, Drought, dry spells, erratic rain fall	20.4 ha	FLD, CDP
	Bottle gourd	Multiple diseases result in low yield	10.7 ha	CDP, MD
	Ridge gourd	Non adoption of short duration HY OPV	7.8 ha	FLD, CDP
	Chilli	Diseases susceptible private hybrids	4.3ha	FLD, CDP
	Tuberose	Nematode susceptible, poor yield and less vase life	3.8 ha	FLD, CDP
	Chrysanthemum	Small size flower, less shelf life, leaf blight, wilting and low yield	2.0 ha	CDP, MD
	Millet	Non practice of value added products	3.8 ha	FLD, CDP
	Arecanut	Monocropping, Nut Splitting, Anabe Roga, Hide Munde Roga, Low Yield	2.7 ha	FLD, CDP
	Coconut	Monocropping, Nut dropping, Stem bleeding, Ganoderma, White fly, Low Yield	5.7 ha	FLD, CDP
	Fodder	Non adoption of multi cut, high yielding, year long fodder	1.0 ha	CDP, MD
	Brinjal	Bacterial Wilt, Shoot and Fruit borer, flower dropping, Low quality and yield	1.0 ha	FLD, CDP
	Pepper	Local variety, quick wilt, leaf blight, sucking pest and low yield	3.2 ha	FLD, CDP
	Agro Forestry	Lack of Awareness on Agroforestry	3.3 ha	FLD,CDP
Ponnasamudara, Gangasagar, Komarlahalli,Yerrammanahalli - PavagadaTaluk	Ragi	Non adoption of variety suitable for dry spells, blast resistant	15.5 ha	FLD
	Groundnut	Non adoption of drought tolerant, HY varieties	70.7 ha	OFT
	Groundnut/Red gram	Mono cropping, Drought, dry spells, erratic rain fall	20.2 ha	FLD
	Bottle gourd	Multiple diseases result in low yield	15.4 ha	FLD
	Chilli	Diseases susceptible private hybrids	2.3 ha	FLD
	Pomegranate	Poor fruit quality, wilt and bacterial blight	1.7 ha	OFT
	Tuberose	Nematode susceptible, poor yield and less vase life	15.8 ha	FLD
	Arecanut	Monocropping, Nut Splitting, Anabe Roga, Hide Munde Roga, Low Yield	40.5 ha	CDP, MD
	Coconut	Monocropping, Nut dropping, Stem bleeding, Ganoderma, White fly, Low Yield	5.8 ha	CDP, MD
	Papaya	Papaya Ring spot virus	62 Nos	FLD, TP

5.Technology assessment during 2023-24

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	Private hybrids are susceptible to Leaf curl (40%), Wilt (7.4%) & Powdery Mildew diseases (20%), resulting in low quality fruits Lack of awareness on High yielding and disease resistant public hybrids in chilli.	Assessment of Chilli hybrids for disease resistance and Higher productivity	Private hybrid (Demon)	Farmer's practice				5	12,750	Fruit length (cm) No. of fruits /plant Fruits Weight/plant(g) Incidence of disease (%) Leaf curl virus, PM, Anthracnose Yield (t/ha)	SS, Horti
				Arka Tanvi	IIHR, Bengaluru (2020)	Arka Tanvi	30 g	900				
				Arka Gagan	IIHR, Bengaluru (2020)	Arka Gagan	30 g	900				
				Hy-80	UHS Bagalkot (2018)	Hy-80	30 g	750				
5.2	Ground nut	Erratic rainfall and prolonged dry spell	Assessment of Drought tolerant and High	K-6	Farmer's practice 2006				5	46,750	Germination %, Days to flowering	PB,SS

		results in failure of crop with average yield 700 kg /ha as compared to state average 1,000 kg/ha.	yielding varieties in Groundnut	DGRMB-24	DOGR ,2018	DGRMB-24	20 kg	1,500			Withstand capacity for dry spells (days) Days Harvesting Stem rot (%) Leaf miner incidence (%) Grain Yield Straw yield Oil content (%)	
				DGRMB-32	DOGR ,2018	DGRMB-32	20 kg	1,500				
				K-Lepakshi (K-1812)	ARS, Kadri, 2020	Kadri Lepakshi (K-1812)	20 kg	3,000				
						Neem Soap	5 kg	1,250				
						Gypsum	100 kg	2,100				
5.3	Pomegranate	Farmers suffered crop loss due to poor soil fertility and severe incidence of blight (48.1%) and wilt (14.5%) affecting yield, quality of fruits and	Assessment of bio formulations for improving growth, quality and yield in Pomegranate	Dr Soil -Soil Fertility Booster. (2016) Liquid Bio fertilizer Consortium	IFFCO-NBRC Gujarat (2018)	Aspergillus niger	5 kg	1,000	3	28,950	Blight incidence (%), Wilt incidence (%), No. of Fruits /plant, Fruit weight (gm), Plant nutrient status,	SS, PB, Horti,
				Application of Aspergillus niger @5 g /plant + pseudomonas @ 20 g + with VAM	NRCP, Solapur (2014)	VAM	12.5 kg	750				

		economic returns.		@25 gm /plant							Yield (t/ha)	
				Actino bacterial consortium: Actino plus @ 50 g /plant + AMC @60 ml/plant	IIHR Bengaluru (2016)	Pseudomonas	10 kg	1,400				
						Arka Actino Bacterial Consortia	25 kg	3,500				
						AMC	25 kg	3,000				

6.Frontline demonstrationsduring 2023-24

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	Erratic rainfall and delayed monsoon, low yield, low income	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	5kg 1 kg 5 Kg 4 Kg.	1290	10	12900	Plant height, No. of tillers,fodder yield, andYield (q/ha)	SS, Horti, HS

		Paddy	Water scarcity, Reduced the paddy area, Low income, High cost	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. Zinc Sulphate – 20 kg /ha.	Paustic-9	-	UAS B	Aerobic paddy Paustic-9 Bio fertilizers and Zinc Sulphate	6 kg 1kg 8 Kg.	820	05	4100	Plant height, No. of tillers,fodder yield, and Yield (q/ha)	SS, Horti, PP
		Maize	Downy mildew,Turcicum leaf blight and Stem borer incidence	Demonstration *Turcicum* leaf blight tolerant hybrid: MAH-14-5, FYM 10 t/ha. RDF 150:75:40 kg/ha.		MAH-14-5	UASB	Seeds Bio fertilizer Zinc Sulphate Metalaxyl+ Mancozeb	6 Kg 10 Kg 4 Kg. 100g	3440	10	34400	Plant height, Cob size, Cob length, % Stem borer, Downy mildew and Turcicum leaf blight incidence,	PP, Horti, SS

				Application of ZincSulphate 10 kg/ha. Seed treatment with Metalaxil M + Mancozeb (4g/kg of seeds) for Downy mildew Poison Bait . Installation light traps.				Chlropyriophos	2.5 ltrs				Yield, B:C ratio	
6.2	Millets	Navane	Reduction in area under minor millets due to lack of knowledge on nutritional value and non availability of processing units	Demonstration of Foxtail millet Variety DHFt 109-3 for Value Addition Seeds 10kg/ha. FYM 6.25 t/ha. RDF 40:40:0	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 Acceptability & Market linkage	HS Horti, SS

				NPKkg/ha.										
6.3	Oilseeds	Castor	Local variety, Low oil content and Less yield	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	Fusarium wilt, low yielding varieties	BRG-5 Seeds 12.5kg/ha. FYM 7.5 t/ha. RDF 25:50:25 NPK kg/ha. Sulpher 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	Demonstration of Organic	ArkaSuvidha	-	IIHR B	French bean seeds	8 kg 6 kg	4360	05	**21800**	Plant height, Root	SS, Horti PP

			Chemical farming, High cost of cultivation	farming practices French bean seeds- 40 kg/ ha, AMC - 15 kg/ ha, Neem cake- 250 kg/ ha, Neem soap - 10 kg/ ha, Jeevamruta – 2000 lit/ha				AMC Neem cake Neem soap	50 kg 2 kg				length, yield and soil nutrient status	
		Chilli	Private hybrids suffer due to leaf curl (40%), and Powdery mildew (20%) affecting economic returns.	Arka Tejasvi- High yielding chilli F1 hybrid, plants medium tall & spreading, fruits pendent, firm, highly pungent, green & turn deep red on	-	Arka Tejasvi	IIHR (B) – 2020	Seeds Bio fertilizer AMC Yellow Sticky traps Vegetable special Neem Soap	15 g 1 l 10 Nos. 2 kg 1 kg	500 290 700 390 290	10	21,700	Plant height (cm) No. of fruits /plant Fruits weight /plant (g) Disease Incidence (%)- Leaf curl Virus and Powdery mildew Yield (t/ha)	Horti, PB, SS, Agril. Extn.

				maturity, resistance to chilli leaf curl virus & Powdery mildew. FYM – 20 tons /ha, RDF : 150:75:75 NPK kg/ha AMC: Drenching @10ml /lit (After transplanting with interval of 15 days) Vegetable Special- 3 gm /lit at starts at flower initiation stage and regular 20 days interval Yellow/Blue sticky traps @										

				100 sheets /ha Neem Soap @7 gm /lit Check: Ulka hybrid										
		French Bean	Low yield, Use of local varieties, Non use of disease (YMV) resistance varieties, Improper Nutrient Management	ArkaArjun (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	ArkaArjun	-	IIHRB	Seeds Bio fertilizer AMC Vegetable special Neem Soap	8 kg 6 Kg 2 kg 2 kg	4060	05	**20300**	Plant Height (cm), Pod length (cm), Weight (g), No. of pods /plant, Yield (t /ha) and Mosaic Diseases incidence (%)	Horti, SS, PP

				days interval - Neem soap : @ 7 g/lit										
		Bhendi	Higher incidence of Bhendi yellow vein Mosaic, Low yield	ArkaNikitha -F1 hybrid (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	-	Arka Nikitha	IIHR B	Seeds AMC Vegetable special	1.5 Kg 5 litres 2 kg	4700	10	**47,000**	Plant height, No. of flowers, No. of fruits, Fruit length, BYVM %, Yield and B:C Ratio	PP, Horti, SS, Agril. Extn.

				days interval										
	Flowers	Tube rose	Small size flowers and diameter, less shelf life and low yield	ArkaPrajwal: bears single type flowers on tall, sturdy spikes. The flower buds are slightly pinkish in colour while the flowers are white. 8 days vase life RDF : 100:50:50 NPK kg/ha AMC : Drenching @ 20gm /lit (25 DAT) Neem soap : @ 7 g/lit	ArkaPrajwal		IIHRB	Seeds bulbs Bio fertilizer AMC	6000 Nos 2 kg	5840	05	**30280**	Plant Height (cm), Weight (g), No. of Flowers/plant, vase life, Yield (t/ha)	Horti, SS, PP, Agril. Extn.
	Fruits	Pomegranate	Low nutrient use	FYM 10 t/ha.	Bhagawa		IIHRB	AMC liquid ACT	35 lit	12650	05	**63250**	Growth parameters, Disease	SS, Horti, PP

			efficiency & soil fertility, Severe incidence of blight and wilt and lower yield	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 traps: 8 Nos. / acre for fruit flies				Neem soap Pheromone traps	15 kg 5 kg 8 Nos.				Incidence - Blight, Wilt, Yield and Economics	

	Plantation crop	Arecanut	Mono-cropping, low nutrient status and low yield, button shedding, stem bleeding and *Ganoderma* wilt	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, Hexoconazole -3 ml per 100ml water	Local	-	CPCRI Kasargod	French bean seeds Borax COC Hexoconozol	10 kg 12 kg 2 kg 2 kg	6200	05	**31000**	Areca nut and intercrop yield, Disease Incidence, Economics	SS, Horti, PP, Agril. Extn.
6.7	Livestock	Poultry	Lack of awareness on improved poultry bird	Popularization 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	Demonstration of Fodder	CoFS 29	-	TNAU Coimbatore	Seeds – 10kg AMC – 20 kg	1 kg 2 kg	780	10	7800	No. of tillers /hill, Milk	Agril. Extn. SS, Horti,

			crop for higher yield	sorghum CoFS 29									yield liters /day (Before/After), Yield t/ha,	PP
		Fodder	Non availability of suitable fodder crop for higher yield	Demonstration of Marvel Grass Perennial Fodder *Dicanthium mannulatum*	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	200 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	Demonstration of Finger millet Variety KMR 340 for Value Addition	KMR-340	-	UAS B	Ragi – KMR-340 Bio fertilizers	5kg 1 Kg.	3420	10	34,200	Yield parameters,economics, BCR, Consumer Acceptability &	HS, SS, Horti

			due to brown colour	Seeds - 12.5kg /ha. FYM 10 t/ha. Zinc Sulphate – 12.5 kg /ha. Borax 10kg / ha.				Zinc Sulphate Packing materials Labels	5 Kg. 5 kg 200 No.				Market linkage	
	Enterprise	Tamarind	Lack of knowledge on processing and value addition, low income	Tamarind :Value Addition, Branding and Market linkage	Processing and value addition		TNAU	Weighing scale Sealing Machine Packing materials Labels	01 01 2 kg 200 No.	10000	03	**30000**	Quantity of different value added products, BCR, consumer acceptability and Income	HS, SS, Horti

7. Trainingfor farmers/ farm women during 2020-21

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 flowers	1	30	SMS (Horti) SMS (Agril. Extn.)
		Dry landHorticulture	-	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)
		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 (PP) SMS (SS) SMS (Horti)
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. Trainingfor rural youth during 2020-21

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 2020-21

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 trainingsduring 2020-21

Sl.No.	Thematic area and the crop/ enterprise	Training title	No. of programmes	Duration (days)	Expected No. of participants	Sponsoring agency, if any	Names of the team members involved
10.1	Crop production						
10.2	Home Science						

10.3	Capacity building and group Dynamics						
10.4	Horticulture						
		Propagation Techniques in Fruit Crops	1	5	20	Dept. of Horticulture	SMS (Horti) SMS (Agril.Extn.)
10.5	Livestock production and management						
10.6	Plant protection						
10.7	Farm mechanization						
10.8	PHT and value addition						
10.9	Production of inputs at site						
10.10	Sericulture						
10.11	Fisheries						
10.12	Other, pl. specify						

11. Sponsored trainings during 2020-21

Sl.No.	Thematic area and the crop/ enterprise	Training title	No. of programmes	Duration (days)	Expected number of participants	Sponsoring agency	Names of the team members involved
11.1	Crop production						
11.2	Home Science						
		Nutrition garden for farm house holds	03	1	120	Dept. of W&CD	SMS (Horti) SMS(HS)
11.3	Capacity building and group Dynamics						
11.4	Horticulture						
		FOCT	01	25	20	ASCI	SMS (Horti) SMS(SS)
11.5	Livestock production and management						
11.6	Plant protection						
11.7	Farm mechanization						
11.8	PHT and value addition						

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

12. Extension activities during 2020-21

Sl.No.	Extension activity	No. of activities	Targeted numberof 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 2020-21

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	3		SMS (Horti) SMS (SS) SMS (PP) SMS (HS)
			Ragi	3		
			Fox tail millet	2		
			Redgram- BRG5	1		
			Mushroom Spawn	5		
			Vegetable Seed Kit	-	1000	
13.2.2	Planting material					
			Mango		3000	SMS (Horti)
			Guava		3000	
			Tamarind		500	
			Lime		1000	
			Amla		500	
			Arecanut seedlings		2500	
			Arecanut sprouts		15000	
			Other crop seedlings		1000	
13.2.3	Bio-products					
			Fruit fly traps and Lures	-	5,000	SMS (SS) SMS (PP)

			NeemSoap	30		SMS (PP) SMS (SS)
			Pongamia Soap	10		SMS (PP) SMS (SS)
			Arka Microbial Consortium	20 (Powder) 2000 litrs (Liquid)		SMS (SS) SMS (PP)
			Sealer cum Healer	10		SMS (PP) SMS (SS)
13.2.4	Livestock strains					
			Sheep		4	SMS (SS) SMS (PP)
13.2.5	Fish fingerlings					
13.2.6	Micronutrient Products		Banana Special	50		SMS (SS)
			Vegetable Special	50		
			Mango Special	25		
			Citrus Special	15		
13.2.7	Other Products		Amla Squash	500 Litres		SMS (HS)
			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 2020-21

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	• 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	• Trainings, Field Visits, Exposure Visits	8.0 Lakhs	All SMS

15. Revolving fund

15.1Financial status of revolving fund

Opening balance as on 01.04.2019 (Rs.in Lakh)	Expenditure incurred during 2019-20 (Rs.in Lakh)	Receipts during 2019-20 (Rs.in Lakh)	Closing balance as on 31.01.2020 (Rs.in Lakh)	Expected closing balance by 31.03.2020(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	900Kg 1,000 Nos.	7.80	SMS (Horti)
	Arecanut sprouts	30000		
15.2.1	Planting material Production	0.26Lakhs Seedlings	5.50	SMS (Horti)
15.2.3	Arka Microbial Consortium	2,000 Kg 2000 litrs	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 2020-21

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		

17. E-linkage during 2020-21

Sl. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
17.1	Title of the technology module to be prepared	-	-
17.2	Creation and maintenance of relevant database system for KVK	-	-
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 (2019-20)

(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*	*Stationery, telephone, postage and other expenditure on office running, publication of Newsletter*	331000		416387
21.1.3.*b*	*POL, repair of vehicles, tractor and equipments*	275000		358763
21.1.3.*c*	*Food/refreshment for farmers/extension personnel @ Rs.150/person/day*	125000		94851
21.1.3.*d*	*Training material (need based materials and equipments for conducting the training)*	25000		35790
21.1.3.*e*	*Frontline demonstrations*	178000		124720
21.1.3.*f*	*On farm testing (OFTs)/Technology Assessment*	51000		46390
21.1.3.*g*	*Integrated Farming System (IFS) (Min. 5 Units)*	0		0
21.1.3.*h*	*Training of extension functionaries*	25000		20000
21.1.3.*i*	*Extension activities/services*	50000		35500
21.1.3.*j*	*Farmers' Field School*	30000		0
21.1.3.*k*	*EDP (2 Nos.) / Innovative activities*	30000		30489
21.1.3.*l*	*Soil & water testing & issue of soil health cards*	25000		25000
21.1.3.*m*	*Maintenance of building*	0		0
21.1.3.*n*	*Farmers Conclave, KVK Conference*	0		0
21.1.3.*o*	*Video production*	0		0
21.1.3.*p*	*Library (Purchase of Journals, Periodicals, News Papers& Magazines)*	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**			
	TotalNon Recurring			
21.3	**(C). REVOLVING FUND**			
	GRAND TOTAL (A+B+C)	**1150000**	**861667**	**1190390**

22.Details of Budget Estimate based on proposed action plan(2020-21)

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*	*Stationery, telephone, postage and other expenditure on office running, publication of Newsletter*	6.00
22.1.3.*b*	*POL, repair of vehicles, tractor and equipments*	4.50
22.1.3.*c*	*Food/refreshment for farmers / extension personnel @ Rs.150/person/day*	1.75
22.1.3.*d*	*Training material (need based materials and equipments for conducting the training)*	0.50
22.1.3.*e*	*Frontline demonstrations*	2.00
22.1.3.*f*	*On farm testing (OFTs)/Technology Assessment*	0.50
22.1.3.*g*	*Integrated Farming System (IFS) (Min. 5 Units)*	0.00
22.1.3.*h*	*Training of extension functionaries*	0.25
22.1.3.*i*	*Extension activities/services*	1.00
22.1.3.*j*	*Farmers' Field School*	0.00
22.1.3.*k*	*EDP (2 Nos.) / innovative activities*	0.00
22.1.3.*l*	*Soil &water testing & issue of soil health cards*	0.25
22.1.3.*m*	*Maintenance of building*	3.00
22.1.3.*n*	*Library (Purchase of Journals, Periodicals, News Papers& Magazines)*	0.05
22.1.3.o	*Others, pl. specify*	
	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**