

ICAR-ATARI XI, Bengaluru

PROFORMA FOR ACTION PLAN 2018-19

ICAR-ATARI – ZONE XI, BENGALURU PROFORMA FOR ACTION PLAN OF KVKs IN ZONE XI FOR THE YEAR 2018-19

1. General information about the Krishi Vigyan Kendra

1.	Name and address of KVK with Phone, Fax and e-mail, Website	:	Krishi Vigyan Kendra, N.H-75, Tamaka, kolar-563103 Phone 08152-243099, 9480696395, Fax: 08152-243208, e-mail : kvk.kolar@icar.gov.in , Web site: www.kvkkolar.in
2.	Name and address of host organization	:	University of Horticultural sciences, Udyanagiri, Bagalkot-587104
3.	Year of sanction	:	2012
4.	Name of agro-climatic zone	:	Eastern dry zone-This zone consists of an area of 1.808 mha. The annual rainfall ranges from 679.1-888.9 mm. More than 50 % of it is received during the Kharif season. The elevation is 800-900 m and the soils are red loamy in major areas, lateritic in the remaining areas.
5.	Major farming systems/enterprises	:	<ol style="list-style-type: none"> 1. Irrigated (borewell) -Tomato- Polebeans, Potato, Cabbage, Cauliflower, capsicum, green chillies, carrot, radish, cucumber, coriander, rose, marigold, chrysanthemum, papaya, sapota, guava, banana, pomegranate, Coconut, Ragi and Mulberry. 2. Tank Irrigated- Paddy 3. Rainfed- Ragi based mixed cropping, Groundnut based intercropping, Maize, Pigeon pea, Horse gram, Field bean, Mango, Cashew, Tamarind etc. 4. Enterprises- Sericulture, Dairy, Poultry, Sheep and Goat rearing
6.	Soil type	:	<ol style="list-style-type: none"> 1. Medium deep, red clayey soil- Red to a bright reddish-orange in color. They are typically quite acidic, often having a pH of less than 5. 2. Medium deep, red gravelly soil- Red in color which is mainly due to ferric oxides. They are usually poor growing soils, low in nutrients and humus. 3. Deep, red clayey loam soil- Clay loam is a soil mixture that contains more clay than other types of rock or minerals. These soils contains a good amount of plant nutrients and supports most types of plants and crops 4. Deep, red clayey soil- Soil mixture contains less clay component. Nutritionally poor. 5. Deep, red gravelly clay soil- Same as clayey loam but gravelly in nature 6. Deep, lateritic clayey soil- These soils are rich in iron and aluminium. Nearly all laterites are rusty-red because of iron oxides. 7. Deep, lateritic gravelly clayey soil- Characteristically similar to the lateritic clayey but stony and gravelly nature less suitable for arable crop cultivation 8. Deep, alluvial clayey soil (salt affected)- A soil deposit developed on floodplain and delta deposits. Soil supports good crop growth. 9. Red gravelly clay soils (Rocky land)- They are less clayey and sandier and are poor in important minerals like lime, phosphorous and nitrogen. Red soil is acidic like that of the Lateritic soil.
7.	Annual rainfall (mm)	:	724.00

2. Details of staff as on date

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Existing Pay band	Grade Pay	Date of joining	Permanent / Temporary	If vacant action plan for filling the post on permanent basis
1.	Senior Scientist and Head	Mr. K.Thulasi Ram	Entomology	37400-67000	9000	18.12.2012	Permanent	
2.	Scientist	Dr. Raghunathareddy R.L	Soil Science	15600-39100	6000	31.08.2015	Permanent	
3.	Scientist	Dr. Shashidhar K.R.	Sericulture	15600-39100	6000	17.01.2014	Permanent	
4.	Scientist	Dr. Noorulla Haveri	Plant Pathology	15600-39100	6000	27.01.2014	Permanent	
5	Scientist	Dr. Nagaraja K.S.	Horticulture	15600-39100	6000	05.11.2015	Permanent	
6	Scientist	Dr. Chikkanna,G,S	Home Science	15600-39100	6000	22.06.2016	Permanent	
8	Programme Assistant	Vacant		9300-34800	4200	06.03.2014	Permanent	
9	Computer Programmer	Mrs. C.S. Gnana Sudha		9300-34800	4200	27.01.2014	Permanent	
10	Farm Manager	Mr. Umesha Naik		9300-34800	4200	01.03.2014	Permanent	
11	Assistant	Mr. Ravi Shankar		16000-29600	--	22.03.2013	Permanent	
12	Stenographer	Mrs. Savitri Rudrapur		20000-36300	--	12.03.2014	Permanent	
13	Driver 1	Mr. Pradeep		8281	--	01.08.2014	Temporary	
14	Driver 2	Vacant						
15	Supporting staff 1	Mr. Srinivas D. Gasti		9600-14450	--	03.02.2014	Permanent	
16	Supporting staff 2	Mr. Srinath		8248	--	11.02.2016	Temporary	

3. Details of SAC meeting conducted during 2018-19

Sl. No	Tentative date of SAC meeting proposed during 2018-19
01	November, 2018

4. Capacity Building of KVK Staff

A. Plan of Human Resource Development of KVK personnel during 2018-19

S. No	Category	Area of training	Institution proposed to attend	Justification	Details of trainings attended during 2017-18
1.	Senior Scientist and Head	Integrated Pest management	NIPHM, Hyderabad	To know about latest technologies in the field of IPM which could be adopted for pest management in demonstrations	-
2.	Scientist (SS&AC)	-	-	-	-
3.	Scientist (Seric)	1.Sericulture Preparation of bio formulation and regarding of seri residues	CSRTI, Mysore	The training is essential to upgrade knowledge on preparation of bioformulations for the control of root diseases of mulberry. Composting and vermin composting techniques for conversion of seri waste into value added manure	-
		2.Sericulture Late age silkworm rearing	CSRTI, Mysore	The training programme is essential to upgrade knowledge on shoot rearing technology, spinning, leaf larvae separator, cocooning structure, harvesting, cocoon sorting & assessment	-
4.	Scientist (Pl.Prot)	Innovative approaches in Integrated pest & disease management in Horticultural crops	NIPHM, Hyderabad	As kolar is a Horticulture district, Further the cropping patterns due to climatic variation facing infestation by various pest & diseases. Hence the training add in empowerment of my knowledge in the field of IPDM	Innovative strategies of plant disease management 8-28th December, 2017 at UAS, Dharwad
5	Scientist (Hort)	1. Production of quality planting material and nursery management in horticulture crops	UHS, Bagalkot	The training is essential to upgrade knowledge on recent techniques to be followed in production of elite quality planting material and advanced nursery aspects	Attended 3 days "orientation training of KVK Scientists" organized during 17 th to 19 th August 2017 at ICAR-JSS KVK,Suttur, Mysore, Karnataka
		2. Exploitation of plant genetic resources in horticulture crops	IIHR, Bengaluru	The training is essential to acquire information on various plant genetic resources in	Attended 7 days Model training course on Impact of climate change and its

				horticulture crops that helps in its exploitation for various stresses	management in Horticulture crops organized during 6 th to 13 th March 2018 at Director of Extension, UHS, Bagalkot
6	Scientist (Home Sci.)	Post Harvest management of fruits & vegetables	IIHR, Bengaluru	It is helpful to conduct training programme on Balanced nutrition to Extensional personnel Eg: Anganwadi teachers	
7	Scientist	-	-	-	-
8	Programme Assistant	-	-	-	-
9	Computer Programmer	-	-	-	-
10	Farm Manager	-	-	-	-
11	Administrative	-	-	-	-

B. Cross-learning across KVKs

S. No	Name of the KVK proposed	Purpose	Mode of learning
1	Within ring – Chikkaballapura, Bengaluru Rural, Ramanagara, Chitradurga	To learn about improved technologies in Sericulture, Floriculture and Fruit crop production, Women empowerment , integrated Farming System	Visit to KVK, visit to fields, demo units, discussion with farmers, interaction with SHGs etc.
2	Within the zone – KVK-Pathanamthitta	To learn about Jack processing, Value addition etc.	discussion with farmers, interaction with SHGs etc.
3	Outside zone - KVK Namakkal	To learn about animal husbandry and dairying, fodder crops etc.	Visit to KVK, visit to fields, demo units, discussion with farmers, interaction with SHGs etc.

5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities

S.No.	Name of the KVK included in the cluster	Nature of sharing		
		Knowledge/expertise	Resources (facilities and products)	Activities
1	KVK, Chikkaballapur	Improved Technology in horticultural crops	Improved technology in field crops and sericulture	Field visits
2	KVK, Bengaluru Rural	Improved Technology in horticultural crops	Improved technology in field crops, vegetables and sericulture, IFS, processing and value addition	Field visits
3	KVK, Ramanagara	Improved Technology in horticultural crops	Improved technology in dry land agriculture	Field visits
4	KVK, Hirehalli	Improved Technology in horticultural crops	Demonstration units, IFS, crop cafeteria etc.,	Field visits

6. Plan of Work for 2018-19

A. Operational areas details proposed

SN	Taluk/ block	Name of cluster villages		Major crops & enterprises being practiced	Major problems identified	Identified thrust areas based on problems	If existing from which year
		Existing	New				
1	Kolar	-	Markandeyapura	Regi, Avare, redgram, tomato, potato, Sericulture	Delayed sowing, Local varieties, low yields, blast incidence, Improper rainfall distribution and lack of awareness on use of biofertilizers	Yield optimization through improved varieties	--
2	Mulabagilu	Byrakuru	-	Groundnut, ragi, avare, tomato, bean, Sericulture	Local varieties, lack of awareness on bio fertilizers and micronutrients application	Yield optimization through improved varieties	2014
3	Bangarpet	Bethamangala	-	Redgram, ragi, avare, tomato, beans Sericulture	Wilt & sterility mosaic incidence, improper nutrient management and incorrect & indiscriminate use of PP chemicals (NFSM)	Yield optimization	--
4	Srinivaspur	-	Gundamma natha	Foxtail Millet, Mango, redgram, sericulture, dairy	Scanty rainfall, water scarcity, lack of knowledge on suitable remunerative crops	Yield optimization through improved varieties	--
5	Malur	-	Jodipura	Ragi, avare, Kodo Millet, tomato redgram	Low yields, scanty rainfall, water scarcity	Yield optimization through improved varieties	--
6	Bangarpet	-	Akkamman adinne	Tomato, potato, polebeans, capsicum, ragi, avare	Micronutrient deficiency, fruit cracking, Uneven sized and discoloured fruits, severe pest and disease incidence	INM and IPDM practices	--
7	Srinivaspura	Y. Hosalli	-	Chilli, ragi, tomato, avare, mango	Use of local varieties, micronutrient deficiency, flower drop, improper nutrient management, leaf curl, powdery mildew, low yield and less returns	Yield optimization through improved varieties	2016
8	Srinivasapura	-	Bandapalli	Mango, ragi, redgram, avare, sericulture, dairy	Inadequate water conservation measures, no micro nutrient management, poor canopy management, low soil fertility, Improper management of pest and diseases, fruit drop, low yield and quality of fruits	Soil and water conservation	--

9	Mulbagilu	-	Kashipura	Guava,ragi, avare,ground nut, tomato, marigold,dairy, sericulture	Severe micronutrient deficiency and bronzing	Micronutrient management in horticulture crops	-
10	Kolar	-	Yadahalli	Marigold, Tomato, Potato, Chilli, Carrot, Ragi, Mulberry, Dairy	Non-practice of pinching, micronutrient deficiency, pest and disease menace and indiscriminate use of PP chemicals	Integrated crop management	--
11	Mulbagilu	-	Kagginahalli	Chrysanthemum, tomato, ragi,potato, dairy, sericulture	Improper bud opening, small flower size , Reduction in flower yield and quality	Yield optimization	--
12	Kolar	-	Moorandahalli	Mulberry, Ragi, Redgram, tomato, Fieldbean, Maize, Dairy	Imbalanced fertilizers application, repeated leaf harvests results in quick depletion of nutrients in the soil, affecting the subsequent leaf harvests and cocoon yields	Organic Nutrient management	--
13	Kolar	-	Urugali	Mulberry, Ragi, Redgram, tomato, cabbage, Maize, Dairy	Severe incidence of leaf roller in mulberry during late rainy and winter seasons.	Integrated Pest management	--
14	Bangarpet	-	Thoraganadoddi	Mulberry, Ragi, potato, Capsicum, tomato, dairy	Scarcity of labour, Laborious, low price in cocoon market	Mechanization in sericulture	2017
15	Bangarpet	-	Venugopalapura	Mulberry, Ragi, potato, Field bean, tomato, dairy	Scarcity of water & therefore to raise mulberry under rainfed condition as tree	Soil and water conservation	2017
16	Srinivasapur	-	Gundammanna	Mango, Mulberry, minor millets, tomato	Use of carcinogenic ripening agents, uneven and delay in ripening , low price realization and health hazards	Post harvest management	--
17	Kolar	Baippanahalli	-	Ragi, redgram, minor millets, tomato,field bean,Fodder crops	Lack of improved fodder varieties, lack of continued supply of green fodder	Introduction of new varieties	2017
18	Kolar/Srinivaspur	Baippanahalli/Gundammanna	-	Ragi, redgram, minor millets, tomato,field bean,Fodder crops	Malnutrition among rural population, non accessibility of quality vegetables	Introduction of nutritional garden	2017

19	Malur	-	Jodipura	Horse gram, redgram,ragi, tomato,dairy, sericulture	Traditional varieties, Low yield and yellow mosaic menace	Yield optimization through improved varieties	2017
20	Kolar	Gaddekannur	-	Cabbage, Cauliflower, Tomato, Chilli, Capsicum, Pole beans Ragi, Field bean, Mulberry and Dairy	Severe Diamond back moth infestation, lack of awareness on biological pest management practices, indiscriminate use of pesticides	Integrated pest management	2017
21	Malur	Bannahalli	-	Cucumber, Bittergourd, Ridgegourd, Tomato, Potato, Chilli, Marigold, Carrot, Radish, Ragi, Filedbean	Severe Downy mildew incidence, lack of awareness on biological disease management practices, indiscriminate use of plant protection chemicals	Integrated Disease management	2017
22	Kolar	Kalluru	-	Papaya, ragi, field bean, redgram,dairy sericulture	Malformed fruits, micro nutrient deficiency, poor fruit set, low yield and poor quality	Micro nutrient mgt. in horti. crops	2017
23	Bangarpet	Venugopalapur	-	Mulberry, Ragi, Redgram, Fieldbean,Maize, Dairy	Lack of information on better utilization of in-between space, non availability of proper technology	Better utilization of in between space	2017
24	Srinivaspura	-	Singanahalli	Mango, redgram, tomato,ragi, sericulture, dairy	Non utilization of in between space, Low fertility status of mango orchards	Better utilization of in between space	--

B. Prioritized problems and KVK interventions proposed

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)				
				OFT	FLD	Trainin g	Extension programmes	Production of technology inputs
Finger Millet	Kolar	Low yield, low income	Introduction of new variety GPU-48 & Bio fertilizers	-	✓	✓	✓	-
Groundnut	Mulabagilu	Low yield, low income	Introduction of new variety ICGV-91114 & Bio fertilizers	-	✓	✓	✓	-
Redgram	Bangarpet	Low yield, low income	Integrated crop management	-	✓	✓	✓	-
Foxtail Millet	Srinivaspura	Low yield, low income	Introduction of new variety SIA-3088 & Bio fertilizers	-	✓	✓	✓	-

Kodo Millet	Malur	Low yield, low income	Introduction of new variety RK395-20 & Bio fertilizers	-	✓	✓	✓	-
Tomato	Bangarpet	Micronutrient deficiency, fruit cracking, Uneven sized fruits, discoloured fruits, sever pest and disease incidence leads to low returns	ICM practices - Application of bio-agent enriched FYM, Vegetable Special spray (3 times), Foliar spray of potassium nitrate (5g/lit) at fruit development stage, Use of yellow sticky traps, spraying neem/pongamia soap, need based plant protection chemicals spray	-	✓	✓	✓	-
Chilli	Srinivaspura	Use of local varieties, micronutrient deficiency, flower drop, improper nutrient management, leaf curl, powdery mildew, low yield and less returns	Demonstration of chilli hybrid "Arka Meghana"- Application of bio agents enriched FYM. Spraying of vegetable special (5g/l). Spraying of NAA@50 ppm during flowering time to reduce flower drop. Spraying Imidachloprid @ 0.5 ml/l and Acephate @ 1 g/l against sucking pests Spray of Wettable sulphur @ 3gm/lit (After 12 weeks of transplanting)	-	✓	✓	✓	-
Mango	Srinivaspura	Inadequate water conservation measures, no micro nutrient mgt., poor canopy mgt. low soil fertility, Improper management of pest and diseases	ICM- Semi circular basin making around the tree trunk. Cultivating green manure crops in the interspaces Canopy management by pruning Spraying 20 ppm NAA at pea size of fruits followed by 2% urea to reduce fruit drop Spray of Arka Mango Special at 4 stages of plant growth (Aug-Sep, Oct- Nov, at pea	-	✓	✓	✓	-

			size of fruit and at lemon size of fruit) Need based plant protection measures					
Guava	Mulbagilu	Severe micronutrient deficiency and bronzing	Foliar spray of 0.5 per cent Znso ₄ and 0.4 per cent boric acid 10 to 14 days before every flowering (3 times)	-	✓	✓	✓	-
Marigold	Kolar	Non-practice of pinching, micronutrient deficiency, pest and disease menace and indiscriminate use of Plant protection chemicals	ICM practices - Nipping at 40 days after transplanting Integrated nutrient management and need based pp chemicals spray	-	✓	✓	✓	-
Chrysanthemum	Mulbagilu	Improper bud opening, small flower size , Reduction in flower yield and quality	Application of GA3 @ 50 ppm on 15, 30 and 45 days after transplanting	-	✓	✓	✓	-
Mulberry	Bangarpet	Lack of information on better utilization of in-between space, non availability of proper technology	Raising Tree mulberry : Pit Dimension 3 x 3 ft & Plant Spacing 10 x 10 ft INM	-	✓	✓	✓	-
Mulberry	Kolar	Imbalanced fertilizers application, repeated leaf harvests results in quick depletion of nutrients in the soil, affecting the subsequent leaf harvests and cocoon yields	For one acre of mulberry, apply 15 MT FYM in 2 splits per year. Apply Dr. Soil - liquid fertilizer @ 5 litres per acre for each crop. Apply Dr. Soil through drip irrigation	-	✓	✓	✓	-
Mulberry	Kolar	Severe incidence of leaf roller pest in mulberry during late	Use light traps to attract and kill adults Mechanical collection of affected parts and burning	-	✓	✓	✓	-

		rainy and winter seasons.	Spray of 0.076% DDVP (76EC) at 12-15 DAP Release <i>Trichogramma chilonis</i> egg parasitoids @ 1 Tricho card / week for four weeks from 18 th day after pruning.					
Farm implements	Bangarpet	Scarcity of labour, Laborious, low price in cocoon market	Demonstration of cocoon deflosser for Time and labour saving	-	✓	✓	✓	-
Mango	Srinivasapur	Use of carcinogenic ripening agents, uneven and delay in ripening , low price realization and health hazards	Low cost plastic ripening chamber for ripening of mango	-	✓	✓	✓	-
Fodder crops	Kolar	Lack of improved fodder varieties, lack of continued supply of green fodder	Introduction of multi cut fodder sorghum CoFS-29/31 for continued supply of fodder	-	✓	✓	✓	-
Nutrition garden	Kolar/Srinivasapur	Malnutrition among rural population, non accessibility of quality vegetables	Demonstration of nutrition Garden in cluster villages	-	✓	✓	✓	-
Horse gram	Malur	Low yield, low income	Introduction of new variety & Bio fertilizers	✓	-	✓	-	-
Cauliflower	Kolar	Severe Diamond back moth infestation, lack of awareness on biological pest management practices, indiscriminate use of pesticides	IPM Practices – Mustard (trap crop), installation of WOTA-T traps, yellow sticky traps, Neem/pongamia Soap (5g/l) spray, Need based insecticide sprays (Emamectin benzoate, Chlorfenapyr, Spinosad)	✓	-	✓		-

Cucumber	Malur	Sever Downy mildew incidence, lack of awareness on biological disease management practices, indiscriminate use of plant protection chemicals	IDM Practices-Seed treatment with Metalaxyl, <i>Trichoderma</i> enriched FYM (@ 1 kg/100 kg FYM) application, Prophylactic Spray with Mancozeb (0.25%) followed by Spraying of Metalaxyl+ Mancozeb (0.25%) and Dimethomorph (0.1%)+Mancozeb (0.2%)	✓	-	✓	-	-
Papaya	Kalluru	Malformed fruits, micro nutrient deficiency, poor fruit set, low yield and poor quality	Micro-nutrient management (soil and/or foliar application of Zn, B, Cu and Mn)	✓	-	✓	-	-
Mulberry	Venugopalapura	Lack of information on better utilization of in-between space, non availability of proper technology	Evaluation of suitable intercrops in tree mulberry for additional income	✓	-	✓	-	-
Mango	Singanahalli	Non utilization of in between space, Low fertility status of mango orchards	Assessment of suitable intercrop for Mango orchards	✓	-	✓	-	-

7. Details of technological interventions

A. Technology Assessment

7.A.1. Crops

SN	Title	Thematic Area	Crop Category	Crop Name	Variety / Hybrid Name	Farming Situation	Problem Definition	Area (ha)	No. of Trials	Critical Inputs Provided & Total Amount (DBT)
1	2	3	4	5	6	7	8		9	10
1	Assessment on Management of DBM in Cauliflower	Integrated pest management	Vegetable crops	Cauliflower	Suhasini	Irrigated	Severe DBM infestation and indiscriminate use of pesticides	0.6	03	Mustard seeds (1 kg), DBM Traps (8), DBM lures (16), Sticky traps (5), Neem soap (4 kg), Spinosad (75ml), Ema. Benzoate (200 g), Chlorphenapyr (300 ml), Novaluron (200 ml) Total= 18630/-
2	Assessment on Management strategies for Downey mildew in Cucumber	Integrated disease management	Vegetable crops	Cucumber	Chitra	Irrigated	Severe Downy mildew incidence and indiscriminate use of pesticides	0.6	03	<i>Trichoderma harzianum</i> (1 kg), Mancozeb (1 kg), Cymoxanil+Mancozeb (300 g), Metalaxyl+ Mancozeb (500 g), Dimethomorp (200 g) Total= 9750/-
3	Micro-nutrient management in Papaya	Micronutrient management	Fruit crop	Papaya	Red lady	Irrigated	Malformed fruits, micro nutrient deficiency, poor fruit set, low yield and poor quality	0.6	03	Borax Boric acid Solubor ZnSo ₄ MnSo ₄ CuSo ₄ Total= 00/-
4	Evaluation of suitable intercrops in mango young gardens for additional income	Inter crops	Fruit crops	Mango	Pigeon pea, Field bean, ragi & Horse gram	Rain fed	Lack of information on better utilization of in-between space, soil and water conservation	2.4	03	Seeds Rhizobium+PSB, Pulse magic Total = 9600/-

5	Evaluation of suitable intercrops in tree mulberry for additional income	Intercrops	Mulberry	Mulberry	V-1	Rainfed	Lack of information on better utilization of in-between space, non availability of proper technology	1.20	03	Ragi seeds (2 kg) + <i>Azospirillum</i> (100gm) Groundnut pods (20 kg) + <i>Rhizobium</i> + <i>PSB</i> Field bean seeds (3 kg) + <i>Rhizobium</i> + <i>PSB</i> (200gm) Total = 10000/-
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SN	Title	Male		Female		Farmers Practice	Recommended Practice (RP)	Source of Technology (RP)
		Others	SC/ST	Others	SC/ST			
1	2	11	12	13	14	15	16	17
1	Assessment on Management of DBM in Cauliflower	03	0	0	0	Indiscriminate use of pesticides	Mustard (trap crop) Spraying of Neem Soap (10g/l), Novaluron (0.075%) or Indaxacarb, (0.05%) or Ema. benzoate (0.05%) spray	IIHR, Bangalore
2	Assessment on Management strategies for Downey mildew in Cucumber	03	0	0	0	Indiscriminate use of fungicides	Seed treatment with Thiram (2g/kg seeds), Spray of Mancozeb (0.2%) followed by Cymoxanil+Mancozeb (0.2%)	IIHR, Bangalore
3	Micro-nutrient management in Papaya	02	01	-	-	Soil application of Borax@ 10 g per plant	At planting apply Borax 20-25 g per plant, supplemented with foliar spray at 25% flowering. At flowering, spray Solubor (20% B) followed by boric acid (17% B).	IIHR Bangalore
4	Evaluation of suitable intercrop in mango young gardens for additional income	03	-	-	-	Mango alone	Fertilizer alone	Farmer Practice
5	Evaluation of suitable intercrops in tree mulberry for additional income	02	-	1	-	No Intercrop	Tree Mulberry + Ragi	UAS Bangalore

SN	Title	Tech. Option 1	To1: Source of Technology	Tech. Option2	To2: Source of Technology	Tech. Option3	To3: Source of Technology	Tech. Option4	To4: Source of Technology
1	2	18	19	20	21	22	23	24	25
1	Assessment on Management of DBM in Cauliflower	Mustard (trap crop), WOTA-T traps, Yellow sticky traps, Spray of neem/	IIHR, Varanasi	-	-	-	-	-	-

		pongamia soap (5g/l), need based spray of Ema. benzoate 5SG (0.05%), Chlorfenapyr 10 SC (0.1%), Spinosad 45 SC (0.15%)							
2	Assessment on Management strategies for Downey mildew in Cucumber	Seed treatment with Metalaxyl (2g/kg seeds), <i>Trichoderma harzianum</i> enriched FYM application (@ 1 kg/100 kg FYM), Prophylactic spray with Mancozeb(0.2 5%) followed by Spraying of Metalaxyl+ mancozeb(0.2 5%) and Dimethomorph (0.1%) + mancozeb (0.2%)	IIVR, Varanasi	-	-	-	-	-	-
3	Micro-nutrient management in Papaya	Spray ZnSO4 0.5% + H2BO3 0.1% during 4th and 8th month to increase growth and yield characters	TNAU, Coimbatore	Foliar spray of Borax 0.1% + MnSo4 0.25%+CuSO4 0.25% at 2 and 3 months after transplanti	NDUAT, Faizabad	-	-	-	-
4	Evaluation of suitable intercrop in young mango gardens for additional income	Mango + Pigeon pea	IIHR, Hesaraghatta	Mango + Field bean	TNAU, Coimbatore	Mango + Horse gram	UAS, Bengaluru	Biofertilizers and Pulse magic	UAS (B)/ UAS (R)
5	Evaluation of suitable intercrops in tree mulberry for additional income	Tree Mulberry + Groundnut	RSRS, Chamarajanagera	Tree Mulberry + Field bean	CSRTI, Mysore	-	-	-	-

SN	Title	Primary Parameter (yield)	Primary Parameter Unit (Q/ha)	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	26	27	28	29	30	31
1	Assessment on management of DBM in Cauliflower	Yield	Q/ha	B:C Ratio	%	DBM incidence	No. of larvae/plant
2	Assessment on management strategies for Downey mildew in Cucumber	Yield	Q/ha	B:C Ratio	%	Downy mildew severity	% PDI
3	Micro-nutrient management in Papaya	Yield	t/ha	Malformed fruits	%	Shelf life	days
4	Evaluation of suitable intercrop in mango young gardens for additional income	Grain yield	Q/ha	Plant height	cm	No. of Pods/plant	Number
5	Evaluation of suitable intercrops in tree mulberry for additional income	Leaf yield / tree, Leaf yield/ha, Yield of intercrops /ha	Kg Q Q	Cocoon yield	(kg/100 dfls)	B:C Ratio	%

7.A.2. Livestock

S. No.	Title	Thematic Area	Livestock Category	Livestock Name	Unit Size (Nos)	Problem Definition	No. of Trials	Critical Inputs Provided & Total Amount (DBT)
1	2	3	4	5	6	7	8	9

SN	Title	Male		Female		Farmers Practice	Recommended Practice (RP)	Source of Technology (RP)
		Others	SC/ST	Others	SC/ST			
1	2	10	11	12	13	14	15	16

SN	Title	Tech. Option1	To1: Source of Technology	Tech. Option2	To2: Source of Technology	Tech. Option3	To3: Source of Technology	Tech. Option4	To4: Source of Technology
1	2	17	18	19	20	21	22	23	24

SN	Title	Primary Parameter	Primary Parameter Unit	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	25	26	27	28	29	30

7.A.3. Enterprise

S. No.	Title	Thematic Area	Enterprise Name	Variety / Species Name	Unit Size (Nos)	Problem Definition	No. of Trials	Critical Inputs Provided & Total Amount (DBT)
1	2	3	4	5	6	7	8	9

SN	Title	Male		Female		Farmers Practice	Recommended Practice (RP)	Source of Technology (RP)
		Others	SC/ST	Others	SC/ST			
1	2	10	11	12	13	14	15	16

SN	Title	Tech. Option1	To1: Source of Technology	Tech. Option2	To2: Source of Technology	Tech. Option3	To3: Source of Technology	Tech. Option4	To4: Source of Technology
1	2	17	18	19	20	21	22	23	24

SN	Title	Primary Parameter	Primary Parameter Unit	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	25	26	27	28	29	30

7.A.4. Farm Implement

S. No.	Title	Thematic Area	Farm Implement Name	Unit Size (Nos)	Problem Definition	No. of Trials	Critical Inputs Provided & Total Amount (DBT)
1	2	3	4	5	6	7	8

SN	Title	Male		Female		Farmers Practice	Recommended Practice (RP)	Source of Technology RP
		Others	SC/ST	Others	SC/ST			
1	2	9	10	11	12	13	14	15

SN	Title	Tech. Option1	To1: Source of Technology	Tech. Option2	To2: Source of Technology	Tech. Option3	To3: Source of Technology	Tech. Option4	To4: Source of Technology
1	2	16	17	18	19	20	21	22	23

SN	Title	Primary Parameter (Yield)	Primary Parameter Unit (Q/ha)	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	24	25	26	27	28	29

7.B Frontline Demonstrations

7.B.1. Crops

S N	Title	Thematic Area	Crop Category	Crop Name	Variety / Hybrid Name	Farming Situation	No. of demonstrations	Area (ha)	Season	Previous Crop
1	2	3	4	5	6	7	8	9	10	11
1	Introduction of medium variety GPU-48 for drought mitigation and delayed sowing	Crop production	Cereals	Ragi	Variety GPU-48	Rain fed	10	4.0	Kharif	-
2	Introduction of new variety ICGV91114 in groundnut for varietal replacement	Crop production	Oil seeds	Ground nut	ICGV-91114	Rain fed	10	2.0	Kharif	-
3	Integrated crop management in redgram	Crop production	Pulses	Redgram	BRG-1	Rainfed	25	10	Kharif	Ragi
4	Introduction of new Horse gram variety CRIDA-18 for higher productivity	Crop production	Pulses	Horse gram	CRIDA-18	Rainfed	05	1	Rabi	-
5	Introduction of new variety DHFT-109-3 for drought mitigation and linking of SHGs for Branding , labeling and market of Value Added Products	Crop production	Cereals	Fox tail millet	DHFT-109-3	Rain fed	5	2.0	Kharif	-
6	Introduction of new variety TNAU -86 for drought mitigation	Crop production	Cereals	Kodo millet	TNAU -86	Rain fed	5	2.0	Kharif	-
7	Integrated crop management in Tomato	Integrated crop management	Vegetable crops	Tomato	Indus 1030	Irrigated	05	1.0	Kharif	Tomato
8	Demonstration of Chilli Hybrid "Arka Meghana"	Horticulture	Vegetables	Chilli	Arka Meghana	Irrigated	5	1.0	Rabi	Tomato
9	Integrated crop management in mango	Horticulture	Fruit crop	Mango	Totapuri/ Banganpalli	Rainfed	5	2.0	Kharif and winter	Mango
10	Management of bronzing in guava	Horticulture	Fruit crop	Guava	Allahabad Safed	Rainfed	3	1.2	Summer and Kharif	Guava

11	Integrated crop management in Marigold	Integrated crop management	Flower crops	Marigold	Yellow maxima	Irrigated	05	1.0	Kharif	Marigold
12	Effect of growth regulator (GA ₃) in enhancing yield of Chrysanthemum	Horticulture	Flower crop	Chrysanthemum	Marigold	Irrigated	03	0.6	Rabi	Marigold
13	Introduction of multi cut fodder sorghum CoFS-29/31 for continued supply of fodder	Crop production	Fodder crops	Fodder sorghum	CoFS29/31	Irrigated	05	1.0	Kharif	
14	Enhancing mulberry leaf yield through organic sources	Nutrient management	Mulberry	Mulberry	V-1	Irrigated	05	2.0	Kharif	Mulberry
15	Integrated pest management of mulberry leaf roller	Integrated Pest management	Mulberry	Mulberry	V-1	Irrigated	05	2.0	Post Rainy and winter	Mulberry
16	Demonstration of Tree mulberry for rainfed sericulture	Soil and water conservation	Mulberry	Mulberry	V-1	Rainfed	10	4.0	Throughout year	Mulberry
17	Demonstration of cocoon deflosser for reducing time and labour	Farm Implements	Mulberry (Silkworm rearing)	Mulberry	V-1	Irrigated	05	500 dfls	All seasons	Mulberry
18	Low cost plastic ripening chamber for ripening of mango	Post harvest management	Fruits	Mango	Alphonso	Rainfed	02	--	summer	Mango
19	Demonstration of nutrition Garden to address malnutrition	Nutritional security	Nutrition garden	--	--	Irrigated	10	0.1	Kharif	-

SN	Title	Male		Female		Farmers Practice	Recommended Practice	Source of Technology Recommended Practice
		Others	SC/ST	Others	SC/ST			
1	2	10	11	12	13	14	15	16
1	Introduction of medium variety GPU-48 for drought mitigation and delayed sowing	08	02	-	-	Local variety and chemical fertilizers	GPU-48 <i>Azospirillum</i> Carbendazim	UAS, Bangalore
2	Introduction of new variety ICGV-91114 in groundnut for varietal replacement	07	03	-	-	Local variety and chemical fertilizers	ICGV91114 <i>Rhizobium</i> PSB, ZnSo4 Boron	CRIDA, Hyderabad
3	Integrated crop management in redgram	15	05	05	-	No nipping, indiscriminate use of insecticides	BRG-1, Bio fertilizers, pulse magic, nipping, leaf webber and pod borer mgt.	UAS, Bangalore
4	Introduction of new Horse gram variety CRIDA-18 for higher productivity	04	01	-	-	GPM-6	Improved variety, Rhuzobium, PSB & use of Pulse magic	CRIDA, Hyderabad
5	Introduction of new variety DHFT-109-3 for drought mitigation	03	02	-	-	Local variety and chemical fertilizers	DHFT-109-3 <i>Azospirillum</i>	UAS, Bangalore
6	Introduction of new variety TNAU -86 for drought mitigation	03	02	-	-	Local variety and chemical fertilizers	TNAU -86 <i>Azospirillum</i>	UAS, Bangalore
7	Integrated crop management in Tomato	04	0	01	0	Micronutrient deficiency, indiscriminate use of PP chemicals	Use of bio-agent enriched FYM, Marigold as trap crop, Spray of vegetable special, Fertigation schedule, Potassium nitrate spray, installation of Yellow sticky traps, Pheromone traps, spray of Neem/Pongamia soap, use of need based pp chemicals	IIHR, B
8	Demonstration of Chilli Hybrid "ARKA MEGHANA"	4	1	-	-	Use of local varieties/hybrids	Demonstration of high yielding chilli hybrid -Arka Meghana	IIHR, Bangalore
9	Integrated crop management in mango	3	2	-	-	Inadequate water conservation measures, no micro nutrient management, poor canopy management. Improper management of pest and diseases	Water conservation techniques Micronutrient management. Green manuring, Canopy management. Pest and disease management	UAS (B)
10	Management of bronzing in guava	2	1	-	-	No application of micronutrient	Foliar spray of 0.5 per cent Znso4 and 0.4 per cent boric acid 10 to 14 days before every flowering (3 times)	IIHR, Bangalore

11	Integrated crop management in Marigold	04	0	01	0	Non-practice of pinching, micronutrient deficiency, indiscriminate use of PP chemicals	Pinching at 40 days after transplanting, integrated nutrient management, application of need based plant protection chemicals	UHS, Bagalkot
12	Effect of growth promoter(GA ₃) in enhancing yields of chrysanthemum	02	01	-	-	No application of growth regulator	Application of GA ₃ @ 50 ppm on 15, 30 and 45 days after transplanting	IIHR, Bangalore
13	Introduction of multi cut fodder sorghum CoFS-31 for continued supply of fodder	07	03	-	-	Local variety	CoFS 31	
14	Enhancing mulberry leaf yield through organic sources	04	0	01	0	Inadequate use of Chemical fertilizer and FYM	For one acre of mulberry, apply 15 MT FYM in 2 splits per year. Apply Dr. Soil - liquid fertilizer @ 5 litres per acre for each crop Apply Dr. Soil through drip irrigation	CSRTI, Mysore
15	Integrated pest management of mulberry leaf roller	04	0	01	0	Spraying of 0.076% DDVP once or twice at 15 DAP and / or at 25 DAP	Use light traps to attract and kill the adults. Mechanical collection of affected parts and burning. Spray of 0.076% DDVP (76EC) at 12-15 DAP. Release <i>Trichogramma chilonis</i> egg parasitoids @ 1 Tricho card / week for four weeks from 18 th day after pruning.	CSRTI, Mysore
16	Demonstration of Tree mulberry cultivation for rainfed sericulture	07	02	01	0	Row plantation (3X3 ft)	Raising Tree mulberry : Pit Dimension 3 x 3 ft & Plant Spacing 10 x 10 ft INM	CSRTI, Mysore
17	Demonstration of cocoon deflosser for reducing time and labour	04	0	01	0	Manual harvesting	Hand Operated Deflossers	CSRTI, Mysore
18	Low cost plastic ripening chamber for ripening of mango	01	-	01	-	Conventional ripening	Low cost plastic ripening chamber	MDB, Srinivasaपुरa
19	Demonstration of nutrition garden to address malnutrition	04	02	03	01	UHS Krishna Prabha seeds	Nutrition Garden	UHS, B

SN	Title	Critical Inputs Provided & Total Amount (DBT)	Primary Parameter (Yield)	Primary Parameter Unit (Q/ha)	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter 2	Secondary Parameter Unit2
1	2	17	18	19	20	21	22	23
1	Introduction of medium variety GPU-48 for drought mitigation and delayed sowing	Seeds <i>Azospirillum</i> Carbendazim Chloropyriphos Total= 9000/-	Yield	Q/ha	No. of tillers/plant	Number	Plant height	cm
2	Introduction of new variety ICGV-91114 in groundnut for varietal replacement	Seeds <i>Azospirillum</i> PSB Micronutrients Total= 40600/-	Yield	Q/ha	No. of tillers/plant	Number	Plant height	cm
3	Integrated crop management in redgram	Seeds, Rhizobium, PSB, Trichoderma, pulse magic, neemazole Total= 71250/-	Yield	Q/ha	PDI	%	Leaf webber	Number
4	Introduction of new Horse gram variety CRIDA-18 for higher productivity	Seeds Rhizobium+PSB Pulse magic Total= 6250/-	Yield	Q/ha	No. of branches	Number	No. of seeds per pod	Number
5	Introduction of new variety DHFT-109-3 for drought mitigation	Seeds <i>Azospirillum</i> Total= 3000/-	Yield	Q/ha	No. of tillers/plant	Number	Plant height	cm
6	Introduction of new variety TNAU -86 for drought mitigation	Seeds <i>Azospirillum</i> Total= 3000/-	Yield	Q/ha	No. of tillers/plant	Number	Plant height	cm
7	Integrated crop management in Tomato	AMC (5 kg), Vegetable special (5 kg), Pheromone traps (6), Yellow sticky traps (10), Neem soap (2 kg), Pongamia soap (2 kg) Total = 14800/-	Yield	Q/ha	B:C ratio	%	Pest and disease incidence	% incidence / %PDI
8	Demonstration of Chilli Hybrid "ARKA MEGHANA"	Seeds of high yielding hybrid Arka Meghana Arka Microbial Consortium Vegetable Special Total= 21,750/-	Yield	q/ha	Number of fruits per plant	Number	Shelf life	Days
9	Integrated crop management in mango	Catch pits, Mukuna (Green manuring crop), Fruit fly traps, Lures, Mango special, Pruning secateurs Total= 14,600/-	Yield	t/ha	Fruit fly catches	Numbers	TSS	^o Brix
10	Management of bronzing in guava	Zinc and Boric acid Total= 2850/-	Yield	t/ha	Per cent recovery of bronzing	%	TSS	^o Brix

11	Integrated crop management in Marigold	Azadirachtin (500 ml), MgSo4 (250 g), Carbendazim (500 g) Total = 4000/-	Yield	Q/ha	B:C ratio	%	Pest and disease incidence	% incidence / %PDI
12	Effect of growth regulator (GA ₃) in enhancing yield of Chrysanthemum	GA ₃ – 30 g Total=7071/-	Flower yield	q/ha	Flower weight/plant	g	Number of branches	Numbers
13	Introduction of multi cut fodder sorghum CoFS-31 for continued supply of fodder	Total =10000/-	Fodder yield	q	Milk yield	kg	Fat	%
14	Enhancing mulberry leaf yield through organic sources	FYM (15 MT) Dr.Soil (15 ltrs) Total = 18750/-	Leaf yield/plant, leaf yield	(g/plant), (Q/ha)	Cocoon yield	kg/100 dfls	Soil test before & after	-
15	Integrated pest management of mulberry leaf roller	Light traps DDVP 250 ml Trichocards 5 Total =7500/-	Leaf Yield/ha	(Q/ha)	Initial pest Incidence	(Nos)	Pest Incidence after 45 days	(Nos)
16	Demonstration of Tree mulberry cultivation for rainfed sericulture	Sunhenp seeds 8 kg Total = 6000/-	Leaf yield/plant, leaf yield	(g/plant), (Q/ha)	Cocoon yield	kg/100 dfls	B:C Ratio	(%)
17	Demonstration of cocoon deflosser for reducing time and labour	Hand Operated Deflosser machine Total =00/-	Labour use efficiency	(No.)	Time taken for deflossing	(hrs)	B:C Ratio	(%)
18	Low cost plastic ripening chamber for ripening of mango	Ripening chamber Total = 00/-	Days to ripen	No	TSS	^o Brix	Color development	
19	Demonstration of nutrition garden to address malnutrition	Seeds, small tools and bio fertilizers Total= 60000/-	Yield	kg	Haemoglobin, KAP	g/dl	Anthropometric measures	cm, kg

7.B.2. Livestock

SN	Title	Thematic Area	Livestock Category	Livestock Name	No. of units	No. of Demos
1	2	3	4	5	6	7

SN	Title	Male		Female		Farmers Practice	Recommended Practice	Source of Technology Recommended Practice
		Others	SC/ST	Others	SC/ST			
1	2	8	9	10	11	12	13	14

SN	Title	Critical Inputs Provided & Total Amount (DBT)	Primary Parameter	Primary Parameter Unit	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	17	18	19	20	21	22	23

7.B.3. Enterprise

SN	Title	Thematic Area	Livestock Category	Livestock Name	Variety / Species	No. of units	No of Demos
1	2	3	4	5	6	7	8

SN	Title	Male		Female		Farmers Practice	Recommended Practice	Source of Technology Recommended Practice
		Others	SC/ST	Others	SC/ST			
1	2	9	10	11	12	13	14	15

SN	Title	Critical Inputs Provided & Total Amount (DBT)	Primary Parameter	Primary Parameter Unit	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	17	18	19	20	21	22	23

7.B.4. Farm Implement

S N	Title	Thematic Area	Farm Implement Name	Cost of Implement	Area (ha)	Season	Labour Required (Check)	Labor Required (demo)	% save	Time saved to cover/ha (hrs)	No. of demos
1	2	3	4	5	6	7	8	9	10	11	12
	Demonstration of cocoon deflosser for reducing time and labour	-	Hand operated cocoon deflosser	5000	500 dfls	Summer and rainy	04	02	-	-	05

SN	Title	Male		Female		Farmers Practice	Recommended Practice	Source of Technology Recommended Practice
		Others	SC/ST	Others	SC/ST			
1	2	13	14	15	16	17	18	19
1	Demonstration of cocoon deflosser for reducing time and labour	4	0	1	0	Manual harvesting (4 Labour)	Hand Operated Deflosser machine (2 Labour)	CSRTI, Mysore

SN	Title	Critical Inputs Provided & Total Amount (DBT)	Primary Parameter (Yield)	Primary Parameter Unit (Q/ha)	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	17	18	19	20	21	22	23
1	Demonstration of cocoon deflosser for reducing time and labour	Hand Operated Deflossers machine Total= 00/-	Labour required	(No.)	Time taken for deflossing	(hrs)	B:C Ratio	%

C. Trainings

SN	Training Category (OFT/FLD/Oth)	Training Type (Regular/ Vocational/ Sponsored/ Rural Youth/ Extension)	Training location (On/Off)	Training For (General Rural Youth/ Extension)	Duration (Days)	Title	Thematic Area
1	2	3	4	5	6	7	8
1	FLD	Regular (Farm men or women)	Off	General	1	Improved production technology in Ground nut	Crop production
2	OFT	Regular (Farm men or women)	Off	General	1	Organic matter, Soil health and soil testing	Soil health and fertility
3	Oth	Regular (Farm men or women)	Off	General	1	Importance of green manuring in nutrient management	INM
4	Oth	Regular (Farm men or women)	Off	General	1	Soil and water conservation and judicious use of irrigation water for higher yields	Soil and water conservation
5	OFT	Regular	Off	General	1	Beneficial effects of micronutrients in yield and quality improvement of major fruit crops	Horticulture
6	FLD	Regular	Off	General	1	Role of growth regulators in enhancing yield of major horticulture crops	Horticulture
7	FLD	Regular	Off	General	1	Management of fruit crops under dry land condition	Horticulture
8	FLD	Regular	Off	General	1	Productivity enhancement in vegetable crops through ICM approaches	Horticulture
9	FLD	Regular	Off	General	1	Exploitation of recent varieties/hybrids in solanaceous vegetables to combat the problem of low productivity	Horticulture
10	FLD	Regular	Off	General	1	Special practices to maximize yield and quality of major flower crops	Horticulture
11	FLD	Regular	Off	General	1	Exploitation of recent varieties/hybrids in solanaceous vegetables to combat the problem of low productivity	Horticulture
12	Other	Rural Youth	On	Rural Youth	1	Canopy management in enhancing productivity of mango	Horticulture

13	Other	Rural Youth	On	Rural Youth	1	Nursery Management techniques in Horticulture crops	Horticulture
14	Other	Rural Youth	On	Rural Youth	1	Protected cultivation of solanaceous vegetable crops	Horticulture
15	Other	Rural Youth	On	Rural Youth	1	Dry land techniques in Horticulture	Horticulture
16	Other	Extension	On	Extension	1	Management of disorders major fruit and vegetable crops	Horticulture
17	Others	Rural Youth	On	Rural Youth	One	Integrated nutrient management in dry land Horticulture	Deficiency correction
18	Others	Rural Youth	On	Rural Youth	One	Importance of soil testing – sampling and interpretation of soil test values	Soil pollution
19	Others	Rural Youth	On	Rural Youth	One	Organic farming	Organic farming
20	Others	Extension personals	On	Extension personals	One	Identification of nutrient deficiency symptoms and their management in major horticultural crops	Yield maximization
21	Others	Extension personals	On	Extension personals	One	Significance of biofertilizers use	Yield maximization
22	Others	Regular	Off	General	01	Integrated pest and disease management in mango	Integrated pest and disease management
23	FLD	Regular	Off	General	01	Integrated pest and disease management in and tomato	Integrated pest and disease management
24	OFT	Regular	Off	General	01	Integrated pest and disease management in cucumber	Integrated pest and disease management
25	Others	Regular	Off	General	01	Importance of <i>Trichoderma</i> in <i>Fusarium</i> wilt management in red gram	Integrated disease management
26	OFT	Regular	Off	General	01	Integrated pest and disease management in Cauliflower	Integrated pest and disease management
27	Others	Regular	Off	General	01	Integrated pest and disease management in groundnut	Integrated pest and disease management
28	Others	Regular	On	Extension	01	Pest and disease management in important fruit crops	Integrated pest and disease management
29	Others	Regular	On	Extension	01	Pest and disease management in important vegetable crops	Integrated pest and disease management
30	Others	Regular	On	Extension	01	Pest and disease management in important flower crops	Integrated pest and disease management
31	Others	Regular	On	Extension	01	Pest and disease management in major field crops	Integrated pest and disease management
32	OFT	Regular	On	General	01	Tree mulberry cultivation practices under dryland situation	Dryland mulberry cultivation
33	FLD	Regular	Off	General	01	Integrated pest and disease management in mulberry ecosystem	Pest management

34	FLD	Regular	On	General	01	Cultivation of mulberry through organic approaches	Organic production
35	FLD	Regular	Off	General	01	Improved production technologies in silkworm rearing	Quality cocoon production
36	FLD	Rural youth	On	Rural youth	01	Pruning techniques in tree mulberry for higher leaf yield	Mulberry management
37	Others	Regular	On	Extension personnel	01	Recent advances in mulberry cultivation and silkworm rearing for sustainable sericulture	Improved techniques in sericulture
38	Others	Vocational	On	Rural youth	05	Preparation of biocrafts from cut cocoons	Handicraft techniques
39	FLD	Regular	On	General	1	Post Harvest Management of Fruits and Vegetables.	Food Security
40	FLD	Vocational	On	General	5	Food and nutritional security through value addition of Minor Millets.	Nutritional security
41	Others	Extension	Off	Extension personnel	1	Importance of Food, Health and Hygiene Practices	Food Security
42	Others	Extension	Off	Extension personnel	1	Importance Of Balanced Nutrition	Nutritional security
43	FLD	Vocational	On	General	5	Value addition of jackfruit.	Entrepreneurship
44	FLD	Extension	Off	General	5	Terrace gardening	nutritional security

SN	Sub Thematic Area	Skill is to impart? (Y/N)	Source of Fund(if sponsored)	Agency Name	Amount (Rs)	Others Male	Others Female	SC/ST Male	SC/ST Female
1	9	10	11	12	13	14	15	16	17
1	Improved cultivation practices in Groundnut	Y	-	-	1000	32	0	4	0
2	Soil health and soil testing	Y	-	-	1000	28	0	2	0
3	Soil fertility management	Y	-	-	1000	23	0	3	0
4	Soil and water conservation	Y	-	-	1000	25	0	4	0
5	Flower crops	Y	-	-	2025	15	5	5	2
6	Fruit crops	Y	-	-	2850	25	5	4	4
7	Horticulture crops	Y	-	-	1800	20	0	3	1
8	Fruit crops	Y	-	-	2400	20	5	5	2
9	Vegetable crops	Y	-	-	2025	10	5	10	2
10	Vegetable crops	Y	-	-	3000	25	5	5	5
11	Fruit crops	Y	-	-	5400	20	5	6	5
12	Horticulture crops	Y	-	-	4050	15	5	5	2
13	Vegetable crops	Y	-	-	5550	20	10	5	2
14	Horticulture crops	Y	-	-	4500	15	5	5	5
15	Fruit and Vegetable crops	Y	-	-	4050	15	5	5	2
16	Fruit and Vegetable crops	Y	-	-	1500	15	5	-	-
17	Nutrient management	Y	-	-	2250	15	5	5	5
18	Balance nutrition	Y	-	-	3000	15	-	5	-
19	Balance ecosystem	N	-	-	4500	20	5	5	-

20	Nutrient management	Y	-	-	4500	20	5	5	-
21	Nutrient management	Y	-	-	4500	20	5	5	-
22	Integrated pest and disease management	Y	-	-	2250	20	05	05	00
23	Integrated pest and disease management	Y	-	-	2250	15	05	05	05
24	Integrated pest and disease management	Y	-	-	2250	25	00	05	00
25	Integrated disease management	Y	-	-	2250	20	00	10	00
26	Integrated pest and disease management	Y	-	-	1875	20	00	05	00
27	Integrated pest and disease management	Y	-	-	1875	15	05	05	00
28	Integrated pest and disease management	Y	-	-	3750	20	00	05	00
29	Integrated pest and disease management	Y	-	-	3750	20	00	05	00
30	Integrated pest and disease management	Y	-	-	3000	15	00	05	00
31	Integrated pest and disease management	Y	-	-	3000	15	00	05	00
32	Dryland mulberry cultivation	Y	-	-	4500	20	05	05	00
33	Integrated pest management	Y	-	-	2250	20	05	05	00
34	Ecofriendly management practices in mulberry	Y	-	-	4500	20	05	05	00
35	Bivoltine cocoon production	Y	-	-	2250	20	05	05	00
36	Mulberry management	Y	-	-	4500	20	05	05	00
37	Improved techniques in sericulture	Y	-	-	4500	20	05	05	00
38	Handicraft techniques	Y	-	-	7500	15	00	5	00
39	Post Harvest Management of Fruits and Vegetables.	Y	-	-	3750	10	5	5	5
40	Food and nutritional security through value addition of Minor Millets.	Y	-	-	6000	15	10	10	5
41	Importance of Food, Health and Hygiene Practices	Y	-	-	4500	10	10	05	05
42	Importance Of Balanced Nutrition	Y	-	-	4500	10	10	05	05
43	Value addition of jackfruit.	Y	-	-	1500	00	05	03	02
44	Terrace gardening	Y	-	-	1500	10	05	03	02

D. Extension programmes

SN	Extension programme	No. of Programme	No. of Farmers/ participants	No. of Extension Officers
1.	Advisory over Phone	220	220	20
2.	Awareness Programs	06	300	10
3.	Bi-Monthly meeting	04	-	300
4.	Celebration of Day	05	400	10
5.	Diagnostic visits	15	40	10
6.	Exhibition	03	900	03
7.	Exposure Visit	05	200	10
8.	Ex-trainees Samelan	01	50	-
9.	Extension Literature	04	2000	-
10.	Farmers Science conveners meeting	-	-	-
11.	Farmer /Extension personnel visit to KVK	200	170	30
12.	Farmers Seminar/ Workshop	05	300	10
13.	Field day	10	400	08
14.	Film Show	20	500	10
15.	Farmers Field School (FFS)	01	25	01
16.	Formation of SHGs	02	40	02
17.	Farm Innovators Meet	01	20	-
18.	Group Meetings	15	300	20
19.	Kisan Ghosti	-	-	-
20.	Kisan Mela	02	5000	02
21.	Lecture delivered as resource person	20	600	20
22.	Method demonstration	15	300	15
23.	News paper coverage	07	-	-
24.	No. of animals treated	01	400	05
25.	Popular arterials	10	-	-
26.	Plant/Soil Health/Animal Health Camps	05	300	05
27.	Radio talk	06	-	-
28.	Special Day Celebration	02	200	
29.	Scientist visit to Farmers Field	200	600	20
30.	SHC campaign	05	250	05
31.	SHG meeting	02	40	02
32.	Technical Reports	02	-	-
33.	Technology Week	01	500	-
34.	TV Talk	05	-	-
35.	Other- Specify			
Total		800	14055	518

8. Activities proposed

A. Mobile Advisory Services

Message Type	Crops	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
Text	120	10	10	05	05	10	160
Voice							
Total	120	10	10	05	05	10	160

B. Seed/ Quality Planting Material

Name of the Crop	Quantity to be Produced		Expected income (Rs)	Expected expenditure (Rs)	Net returns (Rs)
	Seed (kg)	Planting Material (Nos)			
Drumstick	20		50000	20000	30000
Drumstick Nursery		1000	10000	4000	6000
Mulberry Nursery		25000	75000	30000	45000
Jack Nursery		1000	40000	15000	25000
Mango Nursery		1000	40000	15000	25000
		TOTAL	215000	84000	131000

C. Bio Products

Name of the Bio Product	Quantity to be Produced		Expected income (Rs)	Expected expenditure (Rs)	Net returns (Rs)
	Product (kg)	Others (Nos)			
Micronutrient mixture (Mango special)	1500	-	225000	75000	150000

D. Home Care Production

Name of Home product	Quantity to be Produced		Expected income (Rs)	Expected expenditure (Rs)	Net returns (Rs)
	Product (kg)	Others (Nos)			

E. Livestock

Name of Livestock	To be Produced (Nos) (Target)	Expected income (Rs)	Expected expenditure (Rs)	Net returns (Rs)

F. Farm Production

Name of Farm Produce	To be Produced		Expected income (Rs)	Expected expenditure (Rs)	Net returns (Rs)
	Product (kg)	Others (Nos)			
Drumstick seeds	20		50000	20000	30000
Leafy vegetables (Coriander, Dill, Palak, Amaranthus)	1000		30000	10000	20000
Root vegetables (Raddish)	2000		40000	8000	32000
French Bean	1000		30000	12000	18000
Field Bean	500		20000	8000	12000
Curry leaf	100		4000	1500	2500
Rose		36000 (cut flowers)	25000	72000	47000
Foxtail millet/Little millet	1000		10000	40000	30000
Total			286000	94500	191500

G. Publication / Literature

Item Name	Title	Author/s Name	No. of circulation
Newsletter	Newsletter	All Scientists	500
Technical bulletin	Package of practices in tree mulberry	Shashidhar,K.R. K.Thulasiram	100
	Entrepreneurship development through cocoon biocrafts	Shashidhar,K.R. K.Thulasiram	100
	Integated pest and disease management in Capsicum	Noorulla Haveri, K.Thulasiram	100
	Integated pest and disease management in Potato	Noorulla Haver, K.Thulasiram	100
Total	-	-	900

H. Electronic Media

Media Type	Title	No. circulation	Developed by
Video Production	Tree mulberry cultivation practices	-	KVK

I. SWTL Activities

Type	No. of samples to be analyzed	Names of the team members involved	Expected income (Rs)	Expected expenditure (Rs)	Net returns (Rs)
Soil	600	R.L. Raghunatha Reddy Scientist (SS&AC)	120000	35000	85000
Water	250		50000	20000	30000
Plant	20		2000	1000	1000
Others	-	-	-	-	-

No. of SHC to be distributed: Soil health cards will be issued immediately after the analysis

J. News letter

Name	To be issue	No. of Soft copies to be issue	No. of hard copies to be issue
Newsletter	4	500	500

K. Technology Week

Proposed Date	No. of agencies to be linked	Qty. Seeds supply	Qty. Planting material supply	Qty. bio products supply
19-23 December,2018	06		1000	500 kg

L. Proposed Projects

Project Name	Role of KVK	Duration	Project Outlay (Rs)	Additional Man Power to be planned
Enhancing farmers income and welfare	Implementing agency	1 yr	25,00,000	1 Project Asst. and 2 Field Assts.

M. Farmers Field School planned

Thematic area	Title of the FFS	Budget proposed in Rs.	No. of farmers
<ul style="list-style-type: none"> ✓ Scientific disinfection of silkworm rearing house ✓ Proper application of bed disinfectants ✓ Environment maintenance during silkworm rearing and spinning ✓ Optimum density in mountages 	Disease management in bivoltine silkworm rearing	30,000	25

N. E-linkage

SN	Nature of activities	
1	Is KVK has website (Y/N)	Yes
2	If NO, date of website to be develop & host	-
3	Name of the module assigned during Orientation Programme	Activity planner/Outlook express
4	Plan, Progress and expected date of completion	

O. KVK instructional farm Activities

SN	Plot	Season	Area (ha)	Name of the crop	Expected Yield (kg)	Expected Expenditure (Rs)	Expected income (Rs)	Net returns (Rs)
1	P1, P2	Perinnial	0.40	Drumstick	20	20000	50000	30000
2	P2	Kharif	0.20	Leafy vegetables (Coriander, Dill, Palak, Amaranthus)	1000	10000	30000	20000
				or Root vegetables (Raddish)	2000	8000	40000	32000
3	P3	Kharif	0.20	French Bean	1000	12000	30000	18000
4	P4, P5	Kharif	0.40	Field Bean	500	8000	20000	12000
5	P1	Perinnial	0.01	Curry leaf	100	1500	4000	2500
6	P2	Perrrinial	0.02	Rose	36000 (cut flowers)	25000	72000	47000
7	P6	Kharif	2.0	Foxtail millet/Small millet	1000	10000	40000	30000
Total						94500	286000	191500

P. Activities planned under Rainwater Harvesting Scheme (only to those KVKs which are already having scheme under Rain Water Harvesting)-NA

SN	Activities planned	Remarks if any

Q. Plan of other activities

SN	Proposed activities	Expected expenditure (Rs)	Expected income (Rs)	Net Returns (Rs)	Name of the team members involved

R. Innovative Farmer's Meet

Particulars	Details
Are you planning for conducting Farm Innovators meet in your district?	Yes/ No
If Yes likely month of the meet	June
Brief action plan in this regard	

10. Organic Farming

A. Technology Assessment related to organic farming

SN	Title	Thematic Area	Crop Category	Crop Name	Variety / Hybrid Name	Farming Situation	Problem Definition	Area (ha)	No. of Trials	Critical Inputs Provided & Total Amount (DBT)
1	2	3	4	5	6	7	8		9	10

SN	Title	Male	Female		Farmers Practice	Recommended Practice (RP)	Source of Technology (RP)	
		Others	SC/ST	Others				SC/ST
1	2	11	12	13	14	15	16	17

SN	Title	Tech. Option1	To1: Source of Technology	Tech. Option2	To2: Source of Technology	Tech. Option3	To3: Source of Technology	Tech. Option4	To4: Source of Technology
1	2	18	19	20	21	22	23	24	25

SN	Title	Primary Parameter(Yield)	Primary Parameter Unit (Q/ha)	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	26	27	28	29	30	31

B. Frontline Demonstrations related to organic farming

SN	Title	Thematic Area	Crop Category	Crop Name	Variety / Hybrid Name	Farming Situation	No. of demos	Area (ha)	Season	Previous Crop
1	2	3	4	5	6	7	8	9	10	11

SN	Title	Male	Female		Farmers Practice	Recommended Practice	Source of Technology Recommended Practice	
		Others	SC/ST	Others				SC/ST
1	2	10	11	12	13	14	15	16

SN	Title	Critical Inputs Provided & Total Amount (DBT)	Primary Parameter(Yield)	Primary Parameter Unit (Q/ha)	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter2	Secondary Parameter Unit2
1	2	17	18	19	20	21	22	23

B. Trainings related to organic farming

S N	Training Category (OFT/ FLD/Oth)	Training Type (Regular/ Vocational/ Sponsored/ Rural Youth/ Extension)	Training location (On/Off)	Training For (General Rural Youth/ Extension)	Duration (Days)	Title	Thematic Area
1	2	3	4	5	6	7	8

SN	Sub Thematic Area	Skill is to impart? (Y/N)	Source of Fund(if sponsored)	Agency Name	Amount (Rs)	Others Male	Others Female	SC/ST Male	SC/ST Female
1	9	10	11	12	13	14	15	16	17

D. Extension programme related to organic farming

SN	Extension programme	No. of Programme	No. of Farmers/ participants	No. of Extension Officers
1.	Advisory over Phone			
2.	Bi-Monthly meeting			
3.	Celebration of Day			
4.	Diagnostic visit			
5.	Exhibition			
6.	Exposure Visit			
7.	Ex-trainees Samelan			
8.	Extension Literature			
9.	Farmers Science conveners meeting			
10.	Farmer /Extension personnel visit to KVK			
11.	Farmers Seminar/ Workshop			
12.	Field day			
13.	Film Show			
14.	Formation of SHGs			
15.	Group Meeting			
16.	Kisan Ghosti			
17.	Kisan Mela			
18.	Lecture delivered as resource person			
19.	Method demonstration			
20.	News paper coverage			
21.	No. of animals treated			
22.	Popular arterials			
23.	Radio talk			
24.	Scientist visit to Farmers Field			
25.	SHC campaign			
26.	SHG meeting			
27.	Technical Reports			
28.	TV Talk			
29.	Other- Specify			

E. Organic Certification is planned? If Yes Details

F. Any other activity related to Organic farming. Pl specify.

11. Swachh Bharat Abhiyan

Activity	Month	Details	No. of Participants/ Farmers
School premises cleaning	May	Cleaning of School premises in select 3 villages	20
Historic place cleaning	August	Cleaning of Historic places in select places	25
Campus cleaning	September	Cleaning of KVK and College campus	100

12. Budget

A. Revolving Fund (Rs in Lakh)

Opening balance as on 01.04.2017	Expenditure incurred during 2017-18	Receipts during 2017-18	Closing balance as on 31.01.2018
739472	249877	406015	895610

B. Details of budget utilization (2017-18) upto 31 January 2018

S. No.	Particulars	Sanctioned	Released	Expenditure upto Jan-18
A. Recurring Contingencies				
1	Pay & Allowances	78.86	78.86	71.60
2	Traveling allowances	0.80	0.80	0.12
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.10	2.10	1.28
B	POL, repair of vehicles, tractor and equipments	3.00	3.00	2.44
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1.00	1.00	0.49
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.60	0.60	0.36
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	2.50	2.50	1.79
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.40	0.40	0.18
	Training of Extension Activities	1.10	1.10	0.80
G	Training of extension functionaries	0.15	0.15	0
H	IFS	0.25	0.25	0.17
I	FFS	0.30	0.30	0.24
J	EDP	0.15	0.15	0.14
K	Display Boards	-	-	-
L	Maintenance of buildings	-	-	-
M	Establishment of Soil, Plant & Water Testing Laboratory	-	-	-
N	Library	0.05	0.05	0.03
o	Soil & Water testing & Issue of soil health cards	0.25	0.25	0.22
p	Farmers conclave, KVK conference	0.85	0.85	-
TOTAL (A)		92.36	92.36	79.86
B. Non-Recurring Contingencies				
1	Works	-	-	-
2	Equipments including SWTL & Furniture	-	-	-
3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
4	Library	-	-	-
TOTAL (B)		-	-	-
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		92.36	92.36	79.86

C. Details of Budget Estimate (2018-19) based on proposed action plan

S. No.	Particulars	BE 2018-19 proposed (Rs. In lakhs)
A. Recurring Contingencies		
1	Pay & Allowances	94.00
2	Traveling allowances	1.00
3	Contingencies	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.50
B	POL, repair of vehicles, tractor and equipments	3.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	1.00
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	3.10
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.50
G	Extension Activities	0.50
H	Training to extension functionaries	0.30
I	IFS	0.30
J	FFS	0.30
K	EDP	0.20
L	Display Boards	-
M	Maintenance of buildings	-
N	Establishment of Soil, Plant & Water Testing Laboratory	1.00
o	Library	0.10
TOTAL (A)		108.8
B. Non-Recurring Contingencies		
1	Works	-
2	Equipments including SWTL & Furniture	2.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	-
4	Library (Purchase of assets like books & journals)	-
TOTAL (B)		2.00
C. REVOLVING FUND		-
GRAND TOTAL (A+B+C)		110.80