

**ICAR-AGRICULTURE TECHNOLOGY APPLICATION RESEARCH INSTITUTE - ZONE VIII
HEBBAL, BANGALORE**

ACTION PLAN 2017-18

ICAR-AGRICULTURE TECHNOLOGY APPLICATION RESEARCH INSTITUTE - ZONE VIII

1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with Phone, Fax and e-mail	:	Krishi Vigyan Kendra, College of Horticulture, Tamaka, Kolar 563 103 Phone: 08152-240399, 9480696395, Fax: 08152-243208. Kvkolar2012@gmail.com
1.2	Name and address of host organization	:	University of Horticultural Sciences, Udyangiri, Seemikeri cross, Navanagar, Bagalkot, 587 102
1.3	Year of sanction	:	December, 2012
1.4	Website address of KVK and date of last update	:	-

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	Mr. K.Thulasi Ram	Entomology	37400-67000	9000	18.12.2012	Permanent
2.2	Scientist	Dr. Raghunathareddy R.L	Soil Science	15600-39100	6000	31.08.2015	Permanent
2.3	Scientist	Dr. Shashidhar,K.R.	Sericulture	15600-39100	6000	17.01.2014	Permanent
2.4	Scientist	Mr. Noorulla Haveri	Plant Pathology	15600-39100	6000	27.01.2014	Permanent
2.5	Scientist	Dr. Nagaraja K.S.	Horticulture	15600-39100	6000	05.11.2015	Permanent
2.6	Scientist	Dr. Chikkanna,G,S	Home Science	15600-39100	6000	22.06.2016	Permanent
2.7	Scientist	Vacant					
2.8	Programme Assistant(Lab Technician)	Dr. Santhosha H M		9300-34800	4200	06.03.2014	Permanent
2.9	Programme Assistant(Computers)	Mrs. C.S. Gnana Sudha		9300-34800	4200	27.01.2014	Permanent
2.10	Farm Manager	Mr. Umesha Naik		9300-34800	4200	03.03.2014	Permanent
2.11	Accountant/Superintendent (Assistant)	Mr. Ravi Shankar		16000-29600	--	22.03.2013	Permanent
2.12	Stenographer	Mrs. Savitri Rudrapur		20000-36300	--	12.03.2014	Permanent
2.13	Driver 1	Mr. Pradeep		Contract basis	--	01.08.2014	7198
2.14	Driver 2	Vacant					
2.15	Supporting staff 1(Gardener)	Mr. Srinivas D. Gasti		9600-14450	--	03.02.2014	Permanent
2.16	Supporting staff 2	Mr. Srinath		Contract basis	--	11.02.2016	7165

3. Details of SAC meeting conducted during 2017-18

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2017-18
3.1				May 2017

4. Capacity Building of KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2017-18

Sl. No	New Areas of Training	Institution proposed to attend	Justification
4.1.1	Byproduct utilization and value addition in sericulture	UAS, Bangalore	To promote sericulture value added products
4.1.2	Technology for processing of fruits and vegetables	CFTRI, Mysore	To know about various processing technologies
4.1.3	Advances in Micro Irrigation for Improving Water Use efficiency and Productivity	TNAU, Coimbatore	To promote precision farming system in fruit crops

4.2. Cross-learning across KVKs during 2017-18

Sl. No	Name of the KVK proposed	Specific learning areas
4.2.1	Within ring – Chikkaballapura, Bengaluru Rural, Ramanagara, Chitradurga	Improved technologies in Sericulture, Floriculture and Fruit crop production, Women empowerment , integrated Farming Sysytem
4.2.2	Within the zone – KVK Namakkal, Pathanamthitta	Animal husbandry and dairying, Jack processing, Value addition etc
4.2.3	Outside zone -	--

5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2017-18

Sl. No	Name of the KVKs included in the cluster	What do you intend to share with Cluster KVKs	What do you expect from Cluster KVKs
5.1	KVK, Chikkaballapur	Improved Technology in horticultural crops	Improved technology in field crops and sericulture
5.2	KVK, Bengaluru Rural	Improved Technology in horticultural crops	Improved technology in field crops, vegetables and sericulture, IFS, processing and value addition
5.3	KVK, Ramanagara	Improved Technology in horticultural crops	Improved technology in dry land agriculture
5.4	KVK, Hirehalli	Improved Technology in horticultural crops	Demonstration units, IFS, crop cafeteria etc.,

6. Operational areas details proposed during 2017-18

Sl. No	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
6.1	Ragi	Local varieties, low yields, Delayed sowing, Improper rainfall distribution and blast incidence	70%	Kolaganjanahalli	Front Line Demonstration
6.2	Red gram	Wilt & sterility mosaic incidence , improper nutrient management and incorrect & indiscriminate use of PP chemicals	60%	Bayappanahalli	Front Line Demonstration
6.3	Groundnut	Local varieties, lack of awareness on bio fertilizers and micronutrients application, labour intensive in groundnut stripping	70%	Nelahalli	Front Line Demonstration
6.4	Field bean	Severe aphid and pod borer infestation, indiscriminate use of plant protection chemicals	50 %	Uppukunte	Front Line Demonstration
6.5	Mango	Inadequate water conservation methods and micro nutrients application, low soil fertility, Improper management of pest and diseases	70%	Parshvaganahalli	Front Line Demonstration
6.6	Guava	Bronzing in leaves and fruits and low yield	60%	Ganjikunte	Front Line Demonstration
6.7	Potato	Haulm development at cost of tuber, late blight, mite and defoliator problem	60%	Seethahalli	Front Line Demonstration
6.8	Tomato	Injudicious use of fertilizers and micro nutrient management	60%	Kshetrenahalli	Front Line Demonstration
6.9	Cauliflower	Severe incidence of DBM, micronutrient deficiency and disorders	70 %	Doddanayakanahalli	Front Line Demonstration
6.10	Cucumber	Severe powdery mildew and anthracnose disease incidence and fruit fly menace	40 %	Bannahalli	Front Line Demonstration
6.11	Chrysanthemum	Severe incidence of aphids, bud borer and leaf rust	40 %	Shettihalli	Front Line Demonstration
6.12	Sericulture	Scarcity of water and low leaf yield	80%	Mallandahalli	Front Line Demonstration
6.13	Sericulture	Lack of awareness on use of bio fertilizer, micronutrients & silkworm growth promoters and Injudicious use of chemical fertilizers	60%	Bayappanahalli	Front Line Demonstration

Sl. No	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
6.14	Sericulture	Lack of awareness on improved variety, more disease incidence and low leaf yield	30%	Parshvaganahalli	Front Line Demonstration
6.15	Sericulture	Labour scarcity, laborious, low price in cocoon market	50%	Nadupalli	Front Line Demonstration
6.16	Mango	Use of carcinogenic ripening agents, uneven and delay in ripening , low price realization and health hazards	70%	Y.Hosahalli	Front Line Demonstration
6.17	Sericulture	Lack of knowledge on use of grainage cut cocoons, value addition ,processing, packaging, labeling and branding (EDP)	70%	O.Mitturu	Front Line Demonstration (EDP)
6.18	Mango	Low income realization due to lack of knowledge on value addition processing, packaging, labeling and branding (EDP)	80%	Kolathuru	Front Line Demonstration (EDP)
6.19	Cabbage	Severe incidence of DBM & indiscriminate use of pesticides	70 %	Mindahalli	On Farm Testing
6.20	Cucumber	Severe incidence of downy mildew disease	60 %	Kummanahalli	On Farm Testing
6.21	Cauliflower	Diamond back moth (DBM) menace	60 %	Gaddekannuru	On Farm Testing
6.22	Papaya	Malformed fruits, micro nutrient deficiency, poor fruit set, low yield and poor quality	50%	Kalluru	On Farm Testing
6.23	Sericulture	Lack of information on better utilization of inter row space in tree mulberry, non availability of proper technology	60 %	Nayakarahalli,Parshvaganahalli	On Farm Testing
6.24	Horse gram	Low yields and traditional varieties	80%	Chokandahalli	On Farm Testing

7. Technology Assessment during 2017-18

Sl. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial (Rs)	No. of trials	Total cost for the Intervention (Rs.)	Parameters to be studied	Team members
7.1	Cabbage	Severe incidence of DBM & indiscriminate use of pesticides	Evaluation of various pest management practices in cabbage	TO1: Indiscriminate use of pesticides	Farmer practice	-	-	-	03	-	DBM / plant, Weight of heads, Yield, B:C ratio,	SS&H, PP, Hoti, PA Lab
				TO2: Integrated pest management	IIHR (B)	Bt form. DBM traps DBM lures Novaluron Neem soap Indoxacarb Ema. Benzoate	100 gm 4 No. 16 No. 200 ml 2 Kg 200 ml 100 gm	250 300 300 700 400 900 FC 900		8550		
				TO3: Non-woven Polypropelene crop cover	Reliance polymers	Polypropelene non-woven crop cover	16 Kg	-		-		
Total										8550=00		
7.2	Cucumber	Severe incidence of downy mildew disease	Assessment on Management of Downy mildew in Cucumber	TO1: Indiscriminate use of pesticides	Farmer practice	-			03	--	PDI (%) Yield B:C ratio	PP, SS&H, PA Lab
				TO2: Seed treatment with thiram (2g/kg seeds), Spray of Mancozeb (0.25%) & Cymoxanil+Mancozeb (0.2%)	IIHR, Bengaluru	Thiram <i>T.harzianum</i> Mancozeb Cymoxanil+Mancozeb	50 gm 1 kg 500 gm 300 gm	50 200 200 450		2700		
				TO3: Seed treatment with Metalaxyl (2g/kg seeds), Trichoderma harzianum enriched Farm Yard Manure (@ 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%)	IIVR, Varanasi	Metalaxyl <i>T.harzianum</i> Mancozeb Metalaxyl+ Mancozeb Dimethomorp	100 gm 1 kg 500 gm 500 gm 200 gm	200 200 200 800 1000		7200		
Total										9900 = 00		

Sl. No	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
7.3	Cauliflower	Diamond back moth menace	Assessment of management of DBM in cauliflower	TO1: Indiscriminate use of pesticides	Farmer practice	--	--	--	03	--	DBM / plant, Yield, B:C ratio	PP, SS&H, PA Lab
				TO2: Trap crop with Mustard, Spray of Neem Soap (10g/l), light trap, Spray of Bt. (0.1%) or Novaluron (0.075%) or Indoxacarb (0.05%) or Ema. benzoate (0.05%)	IHR, Bengaluru	Mustard seeds Bt form. Neem soap Novaluron Indoxacarb Ema. Benzoate	1 kg 100 gm 2 kg 200 ml 200 ml 100 gm	100 250 150 700 900 FC 900		6300		
				TO3: Trap crop with Mustard, Installation of WOTA-Traps, Sticky traps, Spray of Bt (1g/l), Neem Soap (5g/l), Entomopathogenic fungi (<i>Beauveria bassiana</i>) (0.2%), Ema. benzoate 5SG (0.05%), Chlorfenapyr 10SC (0.1%), Spinosad 2.5SC (0.15)%	IIVR, Varanasi	Mustard seeds WOTA-T traps DBM lures Sticky traps Neem soap Bt form. <i>B. bassiana</i> Spinosad Chlorphenapyr Ema. Benzoate	1 kg 4 no. 16 no. 10 no. 2 kg 100 gm 500 ml 50 ml 300 ml 100 gm	100 350 300 560 150 250 550 950 800 900 FC		12030		
Total										18330=00		
7.4	Sericulture	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	TO1: Farmer practice	-	-	-	-	03	-	Leaf yield / tree, Leaf yield, Cocoon yield (kg/100 dfls), Yield of intercrops, additional income realized by inter crop, B:C Ratio	Seri. SS&H, & PA Lab
				TO2: Tree mulberry + Ragi	UAS (B)	Ragi seeds <i>Azospirillum</i>	2 kg 100 gm	100 30		390		
				TO3: Tree mulberry + Groundnut	RSRS Chamaraja nagar	Groundnut Rhizobium + PSB	20 kg 275 gm	2000		6000		
				TO4: Tree mulberry + Field bean	ITK	Field bean Rhizobium + PSB	3 kg 200 gm	500		1500		
Total										7890 =00		

Sl. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial (Rs)	No. of trials	Total cost for the Intervention (Rs.)	Parameters to be studied	Team members
7.5	Papaya	Malformation of fruits, micro nutrient deficiency, poor fruit set, low yield and poor quality	Micro nutrient management in Papaya	TO1 : Soil application of Borax@10 g per plant	Farmer Practice	-	-	-	03	2550	Length & diameter of the fruit, shelf life, Yield, TSS B:C ratio	Scientist – Horti, SS&H, PA(lab)
				TO2: Borax 20-25g per plant at planting+ Foliar spray of Solubor (20% B) followed by boric acid (17% B) at 25% flowering	IIHR Bengaluru	Borax Boric acid Solubor	7 kg 150 gm 100 gm	700 100 50				
				TO3: Spray ZnSO ₄ 0.5% + H ₂ BO ₃ 0.1% during 4 th and 8 th month to increase growth and yield characters	TNAU Coimbatore	ZnSo ₄ Boric acid	1 kg 150 gm	250 100				
				TO4: Foliar spray of Borax 0.1% + MnSo ₄ 0.25%+CuSO ₄ 0.25% at 2 and 3 months after transplanting	NDUAT, Fizabad	Borax MnSo ₄ CuSo ₄	600 gm 1.5 kg 1.5 kg	300 500 400				
Total										7200=00		
7.6	Horse gram	Traditional varieties, low yield and yellow mosaic menace	Assessment of suitable horsegram varieties for higher productivity	TO1: PHG-9	Farmer Practice	-	-	-	03	1050	Plant height, Number of branches, pods/plant, per cent PDI, grain and straw yield, B:C ratio	Scientist – SS&AC, Seri, PA(lab)
				TO2: GPM-6	UAS(B)	Seeds Rhuzobium+ PSB	5 Kg 0.5Kg	250 100				
				TO3: CRIDA-18	CRIDA, Hyderabad	Seeds Rhuzobium+ PSB	5 Kg 0.5Kg	250 100				
				TO4: PAIYUR-2	TNAU, Coimbatore	Seeds Rhuzobium+ PSB	5 Kg 0.5Kg	250 100				
Total										3150=00		
Grand Total										55020= 00		

9. Frontline Demonstrations during 2017-18

Sl. No	Category	Crop/ Enter prise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology	Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
9.1	Cereals	Ragi	Local varieties, low yields, blast and defoliator management and lack of awareness on biofertilizers	Introduction of medium variety ML-365/KMR-204 for drought mitigation and delayed sowing	Variety	ML-365	UAS(B)	Seeds <i>Azospirillum</i> Carbendazim Chloropyriphos	10 kg 200 g 200 g 1000 ml	500 50 350 200 FC	20 (8 ha)	900	No. of tillers, plant height, No of ear heads, defoliators/ plant and yield	Scientist - SS & AC , PP & SS&H
Total												18000 = 00		
9.2	Oilseeds	Ground nut	Local varieties, lack of awareness on bio fertilizers and micronutrients application, labour intensive and drudgery of farm labour for stripping	Introduction of new variety KCG-6 in groundnut for varietal replacement (NMOOP)	Variety	KCG-6/ GKVK-5	UAS (B)	Seeds <i>Rhizobium</i> PSB ZnSo4/ Boron Carbendazim Groundnut stripper	35 kg 75 g 200 g 4 kg 200 g	3000 25 50 800 FC 325 -	25 (10 ha)	3400	Plant height, No. of pods/plant, Haulm yield and pod yield	Scientist - SS & AC , HS & PA Lab
Total												85000 = 00		
9.3	Pulses	Red gram	Low yields, sterility mosaic virus and insect pest management	Integrated crop management in Red gram var. BRG-1 (NFSM)	Variety	BRG-1	UAS (B)	Seeds <i>Rhizobium</i> PSB Trichoderma Pulse magic Neemazole Dicofol Profenophos DDVP Indaxacarb	5 kg 200 g 200 g 50 g 4 kg 400 ml 500 ml 1000ml 250ml 200 ml	880 50 50 20 1000 500 FC 250 550 200 900 FC	50 (20 ha)	3000	% PDI, leaf webber, pod borer incidence, Pods/plant & yield	Scientist - SS & H , PP & PA Lab
Total												150000 = 00		

9.4	Pulses	Field bean	Sever pod borer and aphid infestation	Integrated pest management in field bean	Variety	Local	UAS (B)	Dimethoate Pheramone traps Lures Profenophos	400 ml 4 16 400 ml	1000 ^{FC} 240 225 300	05 (1 ha)	765	Aphids and pod borer incidence and yield	Scientist – PP, SS&H, Seri, SS & AC,
Total												3825 = 00		
9.5	Fruit crop	Mango	Inadequate water conservation measure, no micro nutrient management, poor canopy mgt, low soil fertility, improper management of pest & diseases	Integrated crop management in mango	Variety	Totapuri	UAS (B)	Catch pits Mukuna Mango special Pruning secateurs Thimethoxam Sulphur Fruitfly traps Lures Imidacloprid Dinocap Thiop. methyl	- 20 Kg 6 Kg 1 no. 100 gm 1 Kg 4 No. 2 No. 120 ml 500 ml 500 gm	3200 1000 900 400 400 200 420 100 540 FC 900 FC 550 FC	10 (4 ha)	6020	Hopper incidence, % PDI, fruit fly catches and yield	Scientist – Horti, PP, SS&H
Total												60200 = 00		
9.6	Fruit crop	Guava	Bronzing and micronutrient deficiency	Management of bronzing in guava	Variety	Allahabad safed	IIHR (B)	ZnsO4 Boric acid FYM Urea DAP MOP	7.5 Kg 6 Kg 10 t 168 kg 156 kg 120 kg	350 600 10000 ^{FC} 1092 ^{FC} 3900 ^{FC} 2040 ^{FC}	03 (1.2 ha.)	950	Per cent recovery, Yield B:C ratio	Scientist – Horti, SS&H & Seri
Total												2850 =00		

9.7	Vegetable	Tomato	Improper method of fertilizer application injudicious use of fertilizers and micro nutrient management	Nutrient management in tomato through fertigation	Hybrid	Abhinav / Indus 1030	IIHR (B)	Veg. special Urea SSP Potassium nitrate	3 Kg 60 Kg 150 Kg 65.25 Kg	450 480 FC 1200FC 8500 (50 % FC)	05 (1ha)	4700	Micronutrient deficiency in fruits (%), TSS of fruits , firmness of fruits, fruit keeping quality Yield B:C ratio	Scientist – Horti, SS&AC, & PA Lab
Total												23500 = 00		
9.8	Vegetable	Potato	Excess haulm development at cost of tuber yield, late blight, mite, tuber moth and defoliator severity	Integrated crop management in Potato	Variety	Kufri Jyothi	UHS (B)	Mepiquat chloride Difenconazole Mancozeb Fenamidon + mancozeb Azoxystrobin Cymoxanil+ mancozeb Fenzaquin Phosalone	500 ml 250 ml 1.5kg 600g 250 ml 400 g 400 ml 400ml	500 900 800 1800 _{FC} 2000 _{FC} 500 800 400	10 (4ha)	3900	Fresh and dry weight of plants, no. of tubers / plant, % PDI, mites/leaf, defoliators /plant and yield	Scientist – PP, Horti, SS&H & PA Lab
Total												39000 = 00		
9.9	Vegetable	Cauliflower	Severe DBM incidence, whiptail and brown rot	Integrated crop management in cauliflower	Hybrid	NS-60	IIHR (B)	Boric acid Ammonium molybdate Mustard seeds DBM traps DBM lures Sticky traps Bt formulation Novaluron Indaxacarb Ema. Benzoate	2 kg 200gm 1 kg 4 16 10 200 g 200 ml 200 ml 100 g	500 400 100 350 320 560 500 700 900 FC 900	05 (1ha)	4330	Per cent brown rot and whip tail incidence, DBM larvae/plant and marketable Yield	Scientist – SS&AC, Horti, & PP
Total												21650 = 00		

9.10	Vegetable	Cucumber	Powdery mildew, Downy mildew, leaf minor and fruit fly severity	Integrated pest and disease management in cucumber	Variety	Malini	IIHR (B)	Dimethate Deltamethrin Fruit fly traps Lures Thiophenate methyl Carbendazim Hexaconazole Cymaxanil+mancozeb	400 g 200 ml 6 12 200 g 200 g 200 ml 300 g	500 400 FC 960 720 340 FC 350 200 500 FC	05 (1 ha)	2730	% PDI, fruit fly catches, % leaf minor incidence and yield	Scientist – PP, SS&H, Seri, & PA Lab
Total												13650=00		
9.11	Flower crop	Chrysanthemum	Severity of aphids, bud borer and leaf rust	Management of major pests and diseases in chrysanthemum	Variety	Marigold	UAS (B) and IIHR (B)	Imidacloprid Neem formln. Pheromone traps Pheromone lures Mancozeb	100 ml 400 ml 4 16 200 g	300 500FC 240 225 200	05 (1 ha)	965	% PDI, aphid infestation, Bud borer incidence and yield	Scientist – PP, SS&H, & PA Lab
Total												4825=00		
9.12	Sericulture	Mulberry	Scarcity of water and low leaf yield	Demonstration of tree mulberry for rainfed sericulture	Variety	V1	CSR&TI Mysore	Mulberry Saplings <i>Azospirillum</i> PSB Secateur DDVP Sunhemp seeds	450 8 kg 10 kg 1 500 ml 8 kg	2250 FC 800 1000 500 400FC 600	10 (4 ha)	2900	Leaf moisture content (%), Leaf yield (kg/tree), Leaf yield (kg/ha/Yr), No of Dfls reared/crop/year, B:C Ratio	Scientist – Seri, SS&H & Horti
Total												29000 =00		

9.13	Sericulture	Mulberry	Injudicious use of chemical fertilizers, lack of awareness on application of bio fertilizers, micronutrients and silkworm growth enhancer	Integrated nutrient management in mulberry & Use of Silkworm growth enhancer for higher cocoon yield	Variety	V-1	CSRTI, Mysore	Zinc sulphate Borax Sunhemp seeds <i>Azospirillum</i> PSB Poshan Serimore Soil test	4 kg 400g 8 kg 8 kg 10 kg 1 ltr 10 ml/100 1	800FC 100FC 600 800 1000 300 250 200	10 (4 ha)	3150	Leaf yield/plant, leaf yield (kg/ha), No. of Cocoons / Kg , Cocoon yield/100 dfls, Shell weight (g), Shell percentage (%), B:C ratio	Scientist -Seri, SS&AC , SS&H, FM
Total												31500 = 00		
9.14	Sericulture	Mulberry	High incidence of foliar disease and low yield	Introduction of Improved variety of Mulberry G-4 for yield maximization	Hybrid	G-4	CSR&TI Mysore	Mulberry Saplings Urea SSP MOP <i>Azospirillum</i> PSB	450 150 kg 100 kg 50 kg 8 kg 10 kg	2250 960 FC 740 FC 800 FC 800 1000	05 (2 ha)	4050	No. of leaves/plant, No. of Shoots/Plant, Leaf yield/plant leaf yield/ha , Disease incidence (%) and B:C ratio	Scientist -Seri, PP & Hort
Total												20250 = 00		
9.15	Sericulture	Silk worm	Non availability of labour, low price in cocoon market	Demonstration of cocoon deflosser for increasing efficiency and reducing drudgery of farm women	-	Hand operated deflosser	CSR&TI Mysore	Manual harvesting Hand operated deflosser	- 02 (No.)	1000 FC 12000	10 (1000 dfls)	12000	Labour use efficiency, time taken for deflossing (hr), B:C ratio	Scientist -Seri, SS&H, HS
Total												12000 = 00		

9.16	Home science	Value addition	Use of carcinogenic ripening agents, uneven and delay in ripening	Low cost plastic ripening chamber for ripening mango	-	Ripening chamber	IIHR (B)	Ripening chamber Ethrel	2 (No) 2 (No)	9500 (50% FC) 500	02	5250	Ripening time, colour, organoleptic evaluation	Scientist – HS, SS&H & Seri
Total												10500 = 00		
9.17	Sericulture	Value addition (EDP)	lack of knowledge on use of grainage cut cocoons, value addition processing, packaging, labeling and branding	Entrepreneurship development through Cocoon Biocraft for SHG women	-	-	UAS (B)	Grainage cut cocoons Biocraft kit	2 Kg 15	2500 9000	01	15000	Price, trading net profit, BC ratio,	Scientist - Seri, HS,PP
Total												15000 = 00		
9.18	Home science	Value addition (EDP)	Low income realization due to lack of knowledge on value addition, processing, packaging, labeling and branding	Entrepreneurship development of women SHG for branding and market for processed protein enriched spicy mango bar	-	-	TNAU (C)	Packaging material Hand gloves Labels Raw ingredients		1500 1000 4000 3000	01	15000	Anthropometric measurement s Dietary Assessment-KAP – Structured schedule	Scientist HS,SSH
Total												15000=00		
Regular FLD Budget												3,20,750=00		
NFSM & NMOOP												2,35,000=00		
Grand Total												5,55,750=00		

10. Training for Farmers/ Farm Women during 2017-18

Sl. No	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
10.1	Crop production	Groundnut	Low income by following traditional method of production	FLD	Improved production technology in Ground nut	1	30	Scientist – SS&AC, SS&H
		Redgram	Improper nutrient management	FLD	Improved production technology in redgram	1	30	
10.2	Horticulture Production	Papaya	Poor fruit set, low yield and micronutrient deficiency	OFT	Role of micronutrient in managing disorders of papaya and major fruit crops	1	30	Scientist – Horti, SS&H
		Guava	Low yield and poor nutrient management	FLD	Management of nutrient disorders in guava and other fruit crops	1	30	
		Mango	Traditional production technology and low yield	FLD	Advances in production aspects of mango	1	45	
		Tomato	Low yield due to inadequate nutrient management	FLD	Fertigation aspects of solanaceous vegetable crops	1	25	
		Potato	Poor crop management practices	FLD	Integrated crop management practices in potato	1	30	
10.3	Home Science	Value addition	Post harvest losses	EDP	Post Harvest Management, value addition and marketing of Mango products	1	30	Scientist – HS, SS&H
10.4	Plant Protection	Mango	Improper management of pests and diseases	FLD	Integrated pest and disease management in mango	1	25	Scientist – SS&H, PP
		Tomato	Injudicious use of fungicides for late blight management	FLD	Need based application of pesticides for management of insect pests and diseases in Tomato	1	20	Scientist – PP, SS&H
		Potato	Injudicious use of insecticides and fungicides for pest and disease	FLD	Integrated pest and disease management in potato	1	20	Scientist – PP, SS&H

Sl. No	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
			management					
		Chrysanthemum	Pest and disease menace	FLD	Integrated pest and disease management in chrysanthemum	1	30	Scientist –PP, SS&H
		Cucumber	Pest and disease problem	FLD	Integrated pest and disease management in cucumber	1	30	Scientist –PP, SS&H
		Red gram	Pest and disease problem	FLD	Importance of <i>Trichoderma</i> in Fusarium wilt management in red gram	1	40	Scientist –PP, SS&H
		Red gram	Pest and disease problem	FLD	Emerging pests and diseases of red gram and their management	1	40	SS&H, PP
		Cabbage	Pest and disease problem	OFT	Integrated management of DBM in cabbage	1	30	SS&H, PP
		Cauliflower	Pest and disease problem	FLD	Integrated pest and disease management in cauliflower	1	30	Scientist –PP, SS&H
		Ground nut	Pest and disease problem	FLD	Integrated pest and disease management in groundnut	1	30	SS&H, PP
		Ragi	Blast disease problem	FLD	Importance of seed treatment in management blast disease in ragi	1	30	Scientist –PP, SS&H
		Field bean	Pest and disease problem	FLD	Integrated pest and disease management in field bean	1	30	Scientist –PP, SS&H
10.5	Production of Inputs at Site							
10.6	Soil health and fertility	Soil health and soil testing	Improper nutrient management	FLD	Importance of soil testing in maintenance of soil health	1	30	Scientist – SS&AC, SS&H
		INM	Excess use of Inorganic manures & high cost of cultivation deterioration of soil fertility	FLD	Importance of nutrient management in horticultural crops	1	30	Scientist – SS&AC, SS&H
		Soil and water management	Scanty rainfall	FLD	Different methods of soil and water conservation and utilization	1	30	Scientist – SS&AC,

								SS&H
10.7	PHT and value addition							
Sl. No	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
10.8	Capacity Building Group Dynamics							
10.9	Farm Mechanization							
10.10	Fisheries Production Technologies							
10.11	Mushroom production							
10.12	Agro forestry							
10.13	Bee Keeping							
10.14	Sericulture	Mulberry		FLD/OFT	Benefits of intercrop and tree mulberry cultivation for rainfed sericulture	2	60	Scientist-Seri, SS&H
		Mulberry		FLD	Improved mulberry varieties for yield maximization	1	30	
		Mulberry		FLD	Integrated nutrient management in mulberry & Use of silkworm growth enhancer for quality cocoon production	2	60	
		Silkworm rearing		FLD	Improved production technologies in Bivoltine silkworm rearing	1	30	
	Others, pl. specify							

* Title of intervention/title of technology, ** Training title should specify the major technology/skill to be transferred.

11. Training for Rural Youth during 2017-18

S.No.	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
11.1	Crop Production							
11.2	Horticulture Production	Mango	Low productivity	FLD	Canopy management and use of micronutrient to enhance mango productivity	1	30	Scientist - Horticulture
11.3	Livestock Production	-	-	-	-	-	-	
11.4	Home Science	Health and hygiene	Malnutrition	FLD	Promotion of Nutritional garden garden in urban and peri urban area	1	20	Scientist –HS
11.5	Plant Protection	-	-	-		-	-	-
11.6	Production of Inputs at Site	-	-	--	-			
11.7	Soil Health and Fertility	Crop management in dry land Horticulture	Lack of irrigation water	-	Dry land techniques in Horticulture	1	30	Scientist - SS&AC, Horticulture
		Soil sampling	Soil based nutrient management		Methodology in soil sampling and its importance	1	30	Scientist - SS&AC, Horticulture
11.8	Capacity Building Group Dynamics							
11.9	Farm Mechanization							
11.10	Fisheries Production Technologies							
11.11	Mushroom production							
11.12	Agro forestry							
11.13	Bee Keeping	Bee keeping	Self-employment		Promotion of bee keeping as an additional income source	1	20	SS&H
11.14	Sericulture	Mulberry Production	Lack of awareness on pruning practices	FLD/OFT	Importance of pruning & pruning techniques in tree mulberry cultivation	1	30	Scientist – Seri, SS&H
		Silkworm rearing	Lack of awareness on mounting methods	FLD	Importance of Mountages & Deflossers in quality cocoon production	1	30	Scientist – Seri, SS&H
	Others, pl. specify							

* Title of intervention/title of technology, ** Training title should specify the major technology/skill to be transferred.

12. Training for Extension Personnel during 2017-18

Sl.No.	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
12.1	Crop production				
12.2	Home Science	Creating awareness on Health & Hygienic practices for pre school children's to Anganawadi teachers and supervisors	4	50	Scientist -HS
12.3	Capacity Building and Group Dynamics				
12.4	Horticulture	Protected cultivation of vegetable crops	1	20	Scientist -Horti & SS&H
12.5	Livestock Production & Management				
12.6	Plant Protection	Pest and disease management in important fruits and vegetables	1	20	Scientist- PP, SS&H
		Pest and disease management in field crops	1	20	Scientist- PP, SS&H
12.7	Farm Mechanization				
12.8	PHT and value addition				
12.9	Production of Inputs at Site				
12.10	Sericulture	Improved sericulture practices for higher productivity	1	30	Scientist– Seri, SS&H
12.11	Fisheries				
12.12	Soil Science	Identification of nutrient deficiency symptoms and their management in major horticultural crops	1	20	Scientist - SS&AC, Horticulture

* Title of intervention/title of technology, ** Training title should specify the major technology/skill to be transferred.

13. Vocational trainings during 2017-18

Sl. No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth etc.)	Expected No. of participants	Sponsoring agency if any	Names of the team members involved
13.1	Crop production						
13.2	Home science						
13.3	Capacity Building and Group Dynamics						
13.4	Horticulture	Propagation in important fruit crops	1(2 days)	Youth	20	---	Scientist – Horti, SS&H
13.5	Livestock Production & Management						
13.6	Plant Protection						
13.7	Farm Mechanization						
13.8	PHT and value addition	Technique of using solar energy in making various recipes to conserve energy	1(3 days)	Youth	20	-	Scientist-HS
13.9	Production of Inputs at Site						
13.10	Sericulture	Preparation of biocrafts from cut cocoons for SHG women	1(5days)	SHG Women	25	DOS, Kolar	Scientist–Seri, SS&H
13.11	Fisheries						

14. Sponsored / Paid trainings during 2017-18

Sl.No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Participants (SHGs, NYKs, School students, Women, Youth etc.)	Expected number of participants	Sponsoring agency	Names of the team members involved
14.1	Crop Production						
14.2	Home Science	Papaya-value addition, Branding and marketing	1 (3 days)	SHG Women	20	-	Scientist-HS
14.3	Capacity Building and Group Dynamics						
14.4	Horticulture						
14.5	Livestock Production & Management						
14.6	Plant Protection	Integrated pest and disease management	1	PF	50	CIPMC, Bangalore	SS&H, Seric
14.7	Farm Mechanization						
14.8	PHT and value addition						
14.9	Production of Inputs at Site						
14.10	Sericulture						
14.11	Fisheries						

* Programme title should specify the major technologies/skills to be transferred /refreshed.

15. Extension programmes during 2017-18

Sl.No.	Extension Programme/ Activity*	No. of programmes or activities	Expected number of participants	Names of the team members involved
15.1	Advisory Services	250	300	All KVK staff
15.2	Diagnostic Visits	20	50	All KVK staff
15.3	Field Day	10	300	All KVK staff
15.4	Group Discussions	15	300	All KVK staff
15.5	Kisan Gosthi	--	--	--
15.6	Film Show	10	500	All KVK staff
15.7	Self -Help Groups	--	--	All KVK staff
15.8	Kisan Mela	02	2000	All KVK staff
15.9	Exhibition	03	900	All KVK staff
15.10	Scientists' Visit to Farmers Field	250	500	All KVK staff
15.11	Plant/Soil Health/Animal Health Camps	06	500	All KVK staff
15.12	Farm Science Club	--	--	All KVK staff
15.13	Ex-Trainees Sammelan	-	-	All KVK staff
15.14	Farmers' Seminar/Workshop	05	250	All KVK staff
15.15	Method Demonstrations	15	300	All KVK staff
15.16	Celebration of Important Days	04	250	All KVK staff
15.17	Special Day Celebration	02	150	All KVK staff
15.18	Exposure Visits	05	200	All KVK staff
15.19	Technology Week	01	500	All KVK staff
15.20	Farmers Field School (FFS)	01	25	All KVK staff
15.21	Farm Innovators Meet	01	20	All KVK staff
15.22	Awareness Programs	06	300	All KVK staff
	Others, pl. specify			

16. Activities proposed as Knowledge and Resource Centre during 2017-18

16.1 Technological knowledge

Sl.No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
16.1.1	Technology Park/ Crop cafeteria	--	--	--
16.1.2	Demonstration Units	Rain water harvesting structure Moisture conservation measures Tree mulberry demo unit Curry leaf demo unit Jack processing unit Poly tunnels & poly house	01 2 0.20 0.05 01 01	All KVK staff
16.1.3	Lab Analytical services	Soil and water analysis	500	Scientist - SS&AC
16.1.4	Technology Week	Advances in Field crops, Horticulture, Sericulture & value addition	01	All KVK staff

16.2 Technological Products

Sl.No.	Category	Name of the Production Partner Agency, if any	Name of the product	Quantity (q)/ Number planned to be produced during 2015-16	Names of the team members involved
16.2.1	Seeds	--	Drum stick seeds	10 kg	Farm manager
16.2.2	Planting materials		Drumstick seedlings	2000 nos.	Farm manager
16.2.3	Bio-products				
16.2.4	Livestock strains				
16.2.5	Fish finger links				
	Others (Mango special)	-	Mango special	1.0 ton	Scientist-SS&AC, PP, FM & PA lab

16.3 Technological Information

	Category	Technological capsules / Number	Names of the team members involved
16.3.1	Technology backstopping to line departments		
	Agriculture	Bimonthly workshop	All KVK staff
	Horticulture	Trimonthly workshop	All KVK staff
	Animal Husbandry	Animal Health Camps	All KVK staff
	Sericulture	Exposure Visits, Awareness programme	All KVK staff
16.3.2	Literature/publication	25	All KVK staff
16.3.4	Electronic Media	5	All KVK staff
16.3.5	Kisan Mobile Advisory Services	50	All KVK staff
16.3.6	Information on centre/state sector schemes and service providers in the district.		

17. Additional Activities Planned during 2017-18

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
17.1	KVK, Kolar	Awareness programme	Protection of plant varieties and farmers right act	0.80 lakh	All KVK Staff
17.2	KVK, Kolar	Enhancing farmers income & welfare	Adoption of a village, identifying yield gaps, Demonstration of IFS & other socio economic condition	25 lakh	All KVK Staff
17.3	KVK, Kolar	FPO	Training programmes, exposure visits and study tour	9.27 lakh	All KVK Staff
17.4	KVK, Kolar	Progressive Farmers to Farmers	Training programmes and exposure visits	7.5 lakh	All KVK Staff
17.5	KVK, Kolar	IFS	Supply of IFS Component	0.30 lakh	All KVK Staff

18. Revolving Fund
18.1 Financial status

Opening balance as on 01.04.2016 (Rs.in Lakh)	Expenditure incurred during 2016-17 (Rs.in Lakh)	Receipts during 2016-17 (Rs.in Lakh)	Closing balance as on 31.01.2017 (Rs.in Lakh)	Expected closing balance by 31.03.2017 (Including value of material in stock/ likely to be produced)
3,07,389	1,20,647	4,54,895	6,46,587	7,43,672

18.2 Plan of activities under Revolving Fund

S.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
18.2.1	Mango special	1,000kg	1,50,000	Scientist (SS&AC) PC & FM
18.2.2	Drumstick seeds	10 Kg	20,000	Farm manager
18.2.3	Drumstick seedlings	2000 nos.	20,000	Farm manager
18.2.4	SWTL	500 samples	1,00,000	Scientist (SS&AC)

19. Activities of soil, water and plant testing laboratory during 2017-18:

Sl.No.	Type	No. of samples to be analyzed	Names of the team members involved
19.1	Soil	300	Scientist - SS&AC
19.2	Water	200	Scientist - SS&AC
19.3	Plant	-	-
19.4	Others	-	-

20. E-linkage during 2017-18

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
20.1	Title of the technology module to be prepared	--	--
20.2	Creation and maintenance of relevant database system for KVK	--	--
20.3	Any other (Please specify) Web site of KVK	--	--

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

S. No	Activities planned	Remarks if any
21.1	--	--
21.2	--	--

22. Innovator Farmer's Meet

Sl.No.	Particulars	Details
22.1	Are you planning for conducting Farm Innovators meet in your district?	Yes
22.2	If Yes likely month of the meet	May- June, 2017
22.3	Brief action plan in this regard (Progressive Farmer to Farmer Training Programme)	7.5 Lakhs

23. Farmers Field School (FFS) planned :- 01

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.
23.1	Excess haulm growth at the cost of Tuber yield, Late Blight menace, might, defoliators & Tuber moth devastation	Integrated crop management in potato	30,000

24. Budget - Details of budget utilization (2016-17) up to 31 January 2017

Sl. No.	Particulars	Sanctioned (BE) (Rs.)	Released	Expenditure (Rs)
24.1	Recurring Contingencies			
24.1.1	Pay & Allowances	72.17	-	64.69
24.1.2	Traveling allowances	1.50	-	0.52
24.1.3	Contingencies	10.59	-	6.94
24.1.4.A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	2.50	-	1.18
<i>B</i>	POL, repair of vehicles, tractor and equipments	1.75	-	1.63
<i>C</i>	Meals/refreshment for trainees	0.70	-	0.50
<i>D</i>	Training material	0.50	-	0.17
<i>E</i>	Frontline demonstration except oilseeds and pulses	2.44	-	1.75
<i>F</i>	On farm testing	0.40	-	0.27
<i>G</i>	Training of extension functionaries	0.25	-	0.06
<i>H</i>	Extension Activities	0.75	-	0.36
<i>I</i>	Soil, Plant & Water Testing and Soil health cards	0.50	-	0.50
<i>J</i>	Farmers Field School	0.30	-	0.15
<i>K</i>	Library	0.10	-	0.06
<i>l</i>	IFS	0.30	-	0.26
<i>m</i>	Display Boards	0.10	-	0.05
24.1	Total Recurring	84.26	-	72.15
24.2	Non-Recurring Contingencies	-	-	-
24.2.1	Works	8.00	-	-
24.2.2	Equipments including SWTL & Furniture	5.00	-	3.52
24.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	-	-	-
24.2.4	Library	-	-	-
24.2	Total Non Recurring	0.00	-	-
24.3	REVOLVING FUND			
24.4	GRAND TOTAL (A+B+C)	97.26	-	75.67

25. Details of Budget Estimate (2017-18) based on proposed action plan

S. No.	Particulars	BE 2017-18 proposed (Rs.)
25.1	Recurring Contingencies	
25.1.1	Pay & Allowances	94.00
25.1.2	Traveling allowances	1.00
25.1.3	Contingencies	13.9927
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.00
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)	4.3425
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.5502
G	Training of extension functionaries	0.25
H	Maintenance of buildings	-
I	Soil, Plant & Water Testing and Soil health cards	0.50
J	IFS	0.25
K	FFS	0.25
L	Extension Activities	0.75
M	Library	0.10
25.1	TOTAL Recurring Contingencies	
25.2	Non-Recurring Contingencies	
25.2.1	Works	200.00
25.2.2	Equipments & Furniture	
25.2.3	Vehicle (Tractor and accessories)	8.00
25.2.4	Library (Purchase of assets like books & journals)	
25.2	TOTAL Non-Recurring Contingencies	
25.3	REVOLVING FUND	
25.4	GRAND TOTAL	316.992