

University of Agricultural Sciences, Dharwad
Krishi Vigyan Kendra
Uttara Kananda, Sirsi

Agricultural Technology Application Research Institutes - ZONE VIII
ICAR, HEBBAL, BANGALORE

ACTION PLAN 2016-17

Agricultural Technology Application Research Institutes – ZONE VIII BENGALURU
PROFORMA FOR ACTION PLAN OF KVKs IN ZONE VIII FOR 2016-17

1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with Phone, Fax and e-mail	:	Uttara Kannada Phone/Fax : 08384-228411, Email id: kvkuks@gmail.com
1.2	Name and address of host organization	:	University of Agricultural Sciences, Dharwad Krishi Nagar, Dharwad
1.3	Year of sanction	:	2004
1.4	Website address of KVK and date of last update	:	www.kvkuttarkannada.org , 25.01.2016

2. Details of staff as on date

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay	Date of joining	
2.1	Programme Coordinator	Dr.Manjappa K.	Agronomy	37400-67000	10000	2.3.2015	P
2.2	Scientist	Dr.Roopa S.Patil	Ag. Entomology	15600-39100	7000	03.12.2008	P
2.3	Scientist	Sri.Shivashenkaramurthy.M	Agronomy	15600-39100	6000	28.11.2011	P
2.4	Scientist	Dr.Akkamahadevi D.A	Horticulture	15600-39100	6000	14.12.2012	P
2.5	Scientist	Vacant	Agroforestry				
2.6	Scientist	Vacant	Animal Science				
2.7	Scientist	Vacant	Home Science				
2.8	Programme Assistant	Sri.Siddappa Kannur	Agroforestry	9300-34800	4200	02.08.2013	P
2.9	Computer Programmer	Smt.Annapurna F Neeralgi	Computer	9300-34800	4200	29.03.2010	P
2.10	Farm Manager	Dr.Praveen T Goroji	Farm Manager	9300-34800	4200	13.11.2008	P
2.11	Accountant/ Superintendent	Smt. Sumalatha S P	Assistant	16000-36300	-	05.09.2015	P
2.12	Stenographer	Miss.Purnima K Hirehal	Typist	16000-29600	-	12.11.2009	P
2.13	Driver 1	Santaosh Naik	Driver (LV)	11600-21000	-	16.04.2015	P
2.14	Driver 2	Vacant					
2.15	Supporting staff 1	Sri.Hazarat A Nadaf	Asst.Cook cum Caretaker	10400-16400	-	02.08.2007	P
2.16	Supporting staff 2	Vacant					

4. Capacity Building of KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2016-17

S. No	New Areas of Training	Institution proposed to attend	Justification
4.1.1	Vertebrate pest management	NIPHM, Hyderabad	Rodents and other wild animals are inflicting heavy damage to paddy, coconut, cocoa etc. There is an urgent need to tackle these vertebrate pest problems
4.1.2	Lac – Production and processing techniques	IINRG, Ranchi	Since lac cultivation is gaining importance in Uttar Kannada, there is an urgent requirement of primary processing.
4.1.3	Project planning and management in agriculture	MANAGE, Hyderabad	Proper identification and formulation of agricultural projects is need of the hour. Also develops competence required for effective and efficient administration of agricultural projects
4.1.4	Forestry and Agroforestry	IWST, NARM, UASB	To acquire knowledge and new technology

4.2. Cross-learning across KVKs during 2016-17

S. No	Name of the KVK proposed	Specific learning areas
4.2.1	Within ring – Gadag, Udupi, Dharwad, Bidar	Formation of commodity groups, Post harvest and value addition, technical knowledge on horticulture crops, nursery techniques and demonstration units, pulse seed production
4.2.2	Within the zone – Upasi KVK Cunoor, CPCRI KVK, Kasargod, Goa, Mallapuram	Home made chocolates, Value addition to coconut, Agri eco tourism, Formation of Paddy task Force
4.2.3	Outside zone - Ahmednagar	ICT
4.2.4	Outside zone - Kudal	Kokum processing

5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2016-17

S.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	Shivamogga	Sharing of technology capsules, Products	Sharing of technology capsules, Products
5.2	Udupi	Sharing of technology capsules, Products	Sharing of technology capsules, Products
5.3	Dharwad	Sharing of technology capsules, Products	Planting Materials

6. Operational areas details proposed during 2016-17

S.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	Paddy	<ul style="list-style-type: none"> Poor soil fertility Blast incidence Leaf folder, stem borer, BPH , Army worms, Case worms & ear head bug infestations. Flood due to heavy rain Labour scarcity Lack of short duration varieties for summer Moisture Stress during summer. 	<p>65,000 ha 23,000 ha 30,000ha 100ha 20,000 ha 5,000 ha 5000 ha</p>	Cluster01 : Banavasi cluster (Sirsi Tq.) Villages : Yedurbail, Kantraji, Satnolli, Vaddala	FLD, OFT, Training Programmes, Official- Scientist-Farmers Interaction, Health Camp, Field Visits, Field Day, Method Demonstrations
6.2	Maize	<ul style="list-style-type: none"> Low yield Poor soil fertility Weeds Stem borer Root rot Leaf Blight 	<p>3000 ha 2500ha 2000 ha 500 ha 50 ha</p>	Cluster 03 : Malagi cluster (Mundagod Tq) Villages : Malagi, Pala, Bhadrapur	FLD, Training Programmes, Health camp, Field Visits and Field Day.
6.3	Groundnut	<ul style="list-style-type: none"> Low yield Poor peg penetration Spodoptera , leaf miner, collar rot 	<p>2000 ha 650 ha 250 ha</p>	Cluster 05: Gokarna cluster (Kumta Tq.) Vilalges: Gokarna	FLD, Training Programmes, Method demonstrations, Field Day, Field Visits.
6.4	Black gram	<ul style="list-style-type: none"> Poor soil fertility Low yield Sucking pests Powdery Mildew 	<p>200 ha 350 ha 50 ha 30 ha</p>	Cluster01: Banavasi cluster (Sirsi Tq.) Villages : Satnolli, Vaddala, Ajjarani	FLD, Training Programmes, Method demonstrations, Field day, field visits.
6.5	Green gram	<ul style="list-style-type: none"> Poor soil fertility Low yield Sucking pests Powdery Mildew 	<p>200 ha 350 ha 50 ha 20 ha</p>	Cluster01: Banavasi cluster (Sirsi Tq.) Villages : Satnolli, Vaddala, Ajjarani	FLD, Training Programmes, Method demonstrations, Field day, field visits.
6.6	Sugarcane	<ul style="list-style-type: none"> Poor tillers Lesser Cane weight Low yield 		Cluster : 06 Sambrani (Haliyal Tq.) Vilalges : Sambrani	OFT, Traings, Method demonstration, Field visit, Field day, Farmer- Scientist Interactions.
6.7	Mango	<ul style="list-style-type: none"> Flower dropping Leaf hoppers MSDS Black band 	<p>1000 ha 500 ha</p>	Cluster 03 : Malagi (Mundagod Tq.) Villages: Kalakoppa, Malagi	FLD, Awareness programme, Training programme, Method demonstration, Field visits

6.8	Banana	<ul style="list-style-type: none"> • Banan Leaf roller • Nutritional deficiency • Pseudostem weevil 	50 ha	Cluster 03 : Malagi (Mundagod Taluk) Villages : Pala, Malagi	OFT, Method demonstration, training programme, field visits, FFS
6.9	Arecanut	<ul style="list-style-type: none"> • Nut drop & Nut split • Root grub • Kole roga 	10000 ha	Cluster:07 : Yellapur Villages : Ummachagi, Ikan, Manchikeri	FLD, Training Programmes, Method demonstrations, Field Day, Field Visits
6.10	Black pepper	<ul style="list-style-type: none"> • Foot rot disease • Death of vines • Berry drop • Poor yield 	250 ha	Cluster:07 : Yellapur Villages : Ummachagi, Ikan, Manchikeri Cluster 02 : Sirsi Villages : Kenchagadde, Kedigemane	FLD, Training Programmes, Method demonstrations, Field Day, Field Visits OFT, Training Programmes, Method demonstrations, Field Visits
6.11	Cashew	<ul style="list-style-type: none"> • Poor yield • Incidence of TMB and CSRB and dieback 	450 ha	Cluster 05: Gokarna (Kumta Tq.) Villages : Deevalli, Kailodi	FLD, Training Programmes, Method demonstrations, Field Visits
6.12	IFS	<ul style="list-style-type: none"> • Low Income • Unemployment • Improper Utilization of Resources 	-	Cluster 01: Yedurbail, Kantraji	IFS Module for Empowerment
6.13	Agroforestry	<ul style="list-style-type: none"> • Underutilized farm bunds and boundary • Lack of Fodder availability in summer (both quality and quantity) • Single source of income 	-	Cluster 03: Malagi, Cluster 04: Mundagod Villages : Chaudalli, Teginakoppa	FLD, Trainings, Awareness campaign
6.14	Lac	<ul style="list-style-type: none"> • Lack of awareness on lac cultivation on Kusum Trees(<i>Schleichera oleosa</i>) • Poor survivability during rainy season 	-	Cluster 2:Malagi, Arishinageri (Mundagod Tq.) Cluster 3 : Sugavi (Sirsi)	OFT, Trainings, Field Visits, Method Demonstrations.

7. Technology Assessment during 2016-17

S. 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
7.1	Paddy	Delayed Planting in Varada River belt due to Flood caused by heavy rain during July month	KMP-105 short duration paddy variety as a contingent crop plan for Kharif	TO1: MTU -1010					10	2100.00	<ul style="list-style-type: none"> Plant height, No.of Tillers Panicle length No.of Grains per panicle Grain wt per Panicle Grain yield Straw yield Pest and Disease incidence 	SMS(Agr) PC SMS(Ent) Farm Manager
				TO2: Rashi	UAS, Dhrawad							
				TO3: KMP-105	UAS, Bangalore	Seeds (KMP-105)	7kg	210.00				
								210.00				
7.3	Banana	Leaf roller	Assessment of Green Labeled insecticides for management of Banana Leaf roller	1. Imidacloprid 18.5 SL @ 0.5 ml/l		Imidacloprid	15ml	30.00	05	1350.00	<ul style="list-style-type: none"> % Larval Mortality % Freshly damaged leaves at 30 DAS 	SMS (Agril. Ent), PC, SMS (Hort) SMS(Agr)
				2. Spraying of Flubendiamide 480 SC @ 0.1 ml/l	KAU for paddy leaf folder	Flubendiamide	5ml	60.00				
				3. Spraying of Neem 10000 ppm @ 1 ml/l		Neem	30ml	180.00				
								270.00				
7.4	LAC	No knowledge on Lac cultivation	Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District	To1 : Inoculation during Kharif					06	15420.00	<ul style="list-style-type: none"> Lac Yield Economics NE population 	SMS (Ag. Ent), PC, PA (Agro forestry), SMS (Hort), SMS (Agr)
				TO: : Inoculation during Summer	IINRG,Ranchi	Brood lac of Kusum Strain Nylon Mesh Flubendiamide	3 kg 6 nos 40ml	2000.00 90.00 480.00				
								2570.00				
7.4	Sugarcane	Low yield due to Poor tiller and less er cane weight	Assessment of Planting Methods in Sugarcane	TO1 : Planting at 75 cm spacing					3	27030.00	<ul style="list-style-type: none"> Plant Population per cane 	SMS (Agronomy) PC

				TO2: Planting at 90 cm	UAS, Dhrawad	Azospirillum PSB	3 kg	180.00			<ul style="list-style-type: none"> • No.of Tillers per Bud • No.of Tillers/5 mtr row • Single cane weight • Yield • Pest and disease incidence 	SMS (Agr.Ent.) SMS (Hort) Farm Manager Pogramme Assistant	
				TO3 : Planting at 60- 120 -60 cm (Paired row system)	UAS, Dhrawad	ZnSO ₄	3 kg	180.00					
						FeSO ₄	7.5 kg	500.00					
				TO4 : Pit method (90 X45 cm spacing and Pit size 100 cm X100 x45 cm)	UAS, Dhrawad	Borax	3 kg	350.00					
						Pit Opening charge	365pits	7300.00					
								9010.00					
7.5	Horticulture		Management of berry drop in Blackpepper	<i>TO1: No spray</i>	-						Survival %, farmers feedback	Progr Asst (Agroforestry) And all technical staff	
				TO2: DAP 1.5% spray & NAA @ 25 ppm at berry set and fruit development stage respectively	TNAU	DAP	1500 g	50		5			1450.00
				TO3: NAA @ 40 ppm at berry set and fruit development stage	KAU	NAA	5 g	240					
								290.00					

8. Technology Refinement during 2016-17 - NIL-

9. Frontline Demonstrations during 2016-17

S. No.	Category	Crop/ enterprise	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	Paddy	Poor soil fertility, Blast incidence, Leaf folder, stem borer, ear head bug infestations	Advanced production technologies for profitable Paddy cultivation	Variety	PSB-68	UASD	Sol Testing Diancha/ sunhemp seeds Paddy Seeds Azospirillum PSB ZnSO ₄ Carbendazim 80 wp Tricyclazole Nimbecidine 300 ppm	01 10kg 25kg 500g 500g 8kg 60g 200g 1.5 l	200.00 800.00 750.00 30.00 30.00 500.00 60.00 500.00 750.00	15	54300.00	<ul style="list-style-type: none"> Plant height No. of tillers / hill Insect pest & disease incidence Panicle length Yield Economics 	SMS(Agr) PC SMS(Ent) SMS (Hort) Farm Manager
										3620.00				
		Maize	Low yield Poor fertility, Weeds, Stem borer and Root rot	ICM in Maize with special emphasis on weed and nutrient management	Hybrid	CP-818/ NK 6240	UASD	Atrazine Borax Cypermethrin Mancozeb Soil Testing	1kg 1 kg 125 ml 750 g 01	400.00 90.00 200.00 350.00 200.00	15	18600.00	<ul style="list-style-type: none"> Plant height Cob length Grain yield Weed control efficiency % Insect Pest and disease control Economics 	SMS(Agr) PC SMS(Ent) SMS (Hort) Farm Manager
										1240.00				
9.2	Millets													
9.3	Oilseeds	Groundnut (Under NFSM)	Low fertility Low yield Spodoptera, Leaf Miner & Collar Rot Poor Peg Penetration,	ICM In Ground nut	Variety	G2-52	UASD	Seeds (G2-52) <i>Rhizobium</i> PSB <i>Trichoderma</i> @ 10g/kg seeds <i>Nomuraea rileyi</i> 1X10 ¹¹ conidia/g @ 2 g/l Soil Testing	45 kg 1kg 1 kg 500g 500g 01	3000.00 100.00 100.00 50.00 100.00 200.00	35	124250.00	<ul style="list-style-type: none"> No of Spodoptera moths trapped Insect pest & disease incidence No of pods per plant Yield Economics 	PC SMS(Ent) SMS(Agr) SMS (Hort)
										3550.00				
9.4	Pulses	Blackgram (Under NFSM)	Low yield Poor fertility Sucking Pest	Enhancing productivity of Blackgram under	Variety	DU-1	UASD	Seeds <i>Rhizobium</i> PSB	8 kg 200 g 200 g	1120.00 30.00 20.00	85	143650.00	<ul style="list-style-type: none"> Plant height No. of Leaves per 	SMS(Agr) PC SMS(Ent)

			and Powdery mildew	Paddy residual moisture				Trichoderma Pulse wonder Soil Testing	50 g 1250 g 01	20.00 300.00 200.00			plant • No.of nodules /pl • Yield • Economic • Pest and disease incidence	SMS (Hort) Farm Manager
										1690.00				
		Green gram (Under NFSM)	Low yield Poor fertility Sucking Pest and Powdery mildew	Enhancing productivity of Greengram under Paddy residual moisture	Variety	DGGV-2	UASD	Seeds Rhizobium PSB Pulse wonder Soil Testing	8 kg 200 g 200 g 1250 g 01	1200.00 20.00 20.00 300.00 200.00	40	69600.00	• Plant height • No.of Leaves per plant • No.of nodules /pl • Yield • Economic • Pest and disease incidence	SMS(Agr) PC SMS(Ent) SMS (Hort) Farm Manager
										1740.00				
9.5	Commercial crops	Cotton	Low yield, Shootweevil, Boll and square drop, Black arm	ICM in Bt Cotton	Hybrid	BGII	UAS Dharwad	Bhendi seeds Planofix @ 0.25 ml/l Profenophos 50EC @ 2 ml DDVP @ 0.5 ml MgSO4 1 % ZnSO4 0.5 %	500 g 100 ml 400 ml 100 ml 3 kg 1.5 kg	150.00 75.00 250.00 110.00 150.00 100.00	10	8350.00	• No of plants affected by shoot weevil per 50 plants, % reduction in square and boll drop	SMS (Ent.), PC, SMS (Agr), SMS (Hort), Farm manager
										835.00				
9.6	Horticultural crops	Arecanut	Low yield, nut dropping and splitting Root grub	Promising technology to tackle Nutdrop & Rootgrub in Arecanut	variety	Local	CPCRI & UASD	Borax @ 25g/plant <i>Metarrhizium anisopliae</i> @ 25 g/palm Soil Testing	14 kg 12 kg 2	2050.00 2400.00 400.00	10	48500.00	• No.of Nut drop/plant • % Reduction in nut drop • Yield/pl • %Pest and disease incidence • Economics	Farm Manager SMS (Ent) SMS (Agr) SMS (Hort)
										4850.00				
		Mango	• Flower dropping • Leaf hoppers • MSDS • Bark Weevil	Enhancing fruit set & yield in Mango	Variety / Hybrid	Alphanso, Panchami, Malika, Pairi	UASD IHR, Bangalore	Planofix Mango special COC Fruit fly trap	200 ml 8 kg 150g 04	100.00 1200.00 300.00 300.00	15	28500.00	• % Fruit set • Yield • % Pest & Disease Incidence • Economics	SMS (Hort) SMS(Ent) SMS(Agr) PA(Agroforestry)
										1900.00				

		Black pepper	• Foot rot disease	Foot rot Management in black pepper	Variety	Panniyur-1	UASD	200 gauge UV resistant polythene sheet Neem cake Trichoderma Soil Testing	40 sq. mt 25kg 1.25kg 01	2550.00 400.00 150.00 200.00	10	33000.00	• % Death of vines • Yield • Economics	SMS (Hort) SMS (Ent) SMS(Agr) Farm Manager
										3300.00				
		Cashew	Low yield, TMB and CSRB	IPM in Cashew	Variety	Local	DCR, Puttur IIHR, Hesaraghatta	Chlorpyrifos 20 EC @ 10 ml/l Lambda cyhalothrin 5 EC @ 1 ml/l Dimethoate @ 1.7 ml/l	1.5 lt 400 ml 1 ltr	750.00 320.00 500.00	10 (15 trees/de mo)	15700.00	• % incidence of TMB & shrivelled nuts • % wilting • Yield • Economics	SMS(Ent), SMS (Hort) PA(Agroforestry)
										1570.00			•	
9.7	Livestock	Nil												
9.8	Fisheries	Nil												
9.9	Others (Agroforestry)	<i>Calophyllum inophyllum</i> , <i>Melia dubia</i> , <i>Sesbania grandiflora</i> , <i>Red sanders</i>	•Indiscriminate use of bettaland •Under utilization of bunds and boundaries •Soil erosion •Single source of income •Scorching effect on Areca nut trees	Multipurpose trees on bund/boundary/ Bettaland planting as shelter/Fodder and additional source of income			APFD	Redsanders (The seedlings will be included in on going FLD as an additional component)	200	800.00	5	4000.00	• Survival percent • Economics	PA(agroforestry) and All SMS
										800.00				
10.0	IFS			IFS Module						10000.00	5	50000.00		SMS (Agr) & All Technical staff
										1570.00				

10. Training for Farmers/ Farm Women during 2016-17

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
10.1	Crop Production	Paddy	Poor fertility Lesser tillers Low yield	FLD: Production technologies for profitable paddy cultivation	INM in Paddy	4	120	SMS (Agr) PC SMS(Hort)
				FLD: Production technologies for profitable paddy cultivation	Bio-fertilizer importance and its application method	3	90	SMS (Agr) PC SMS(Hort)
		Maize	Weeds	FLD: ICM in Maize with special emphasis on weed and nutrient management	Weed management in Maize	2	60	SMS (Agr) PC PA(Soil Sci)
			Poor fertility	FLD: ICM in Maize with special emphasis on weed and nutrient management	Nutrient management in Maize	2	60	SMS (Agr) PC SMS(Hort) PA(Soil Sci)
			Poor fertility Water scarcity	FLD: ICM in Maize with special emphasis on weed and nutrient management	Sowing method of Maize + Cowpea inter crop during summer	2	60	SMS (Agr) PC SMS(Hort)
		Black gram & Green Gram	Low yield Poor fertility	FLD : Enhancing productivity of black gram & green gram under residual moisture	Seed treatment with bio-fertilizers Weed management in Pulse crop	4	120	SMS (Agr) PC SMS(Ent) SMS(Hort)
		Ground nut	Low yield Poor fertility Poor peg penetration	FLD : ICM in Ground nut	Gypsum importance and its method of application Biofertilizer Importance and its application Nutrient management IPM in Ground nut	1 1 1 1	120	SMS (Agr) PC SMS(Ent) SMS(Hort)
		Sugarcane	Low yield Poor fertility Water scarcity	OFT: Planting Methods in Sugarcane	Planting methods in Sugarcane INM in Sugarcane	2	60	SMS (Agr) PA(Soil.Sci) SMS(Hort)
	(Paid Training)		Low income Lack of knowledge on agribusiness		Agribusiness for higher returns	01	10	SMS(Agronomy)
10.2	Horticulture Production	Mango	Flower & fruit drop	FLD: Enhancing fruit set and yield in Mango	Management of flower and fruit drop in mango	01	25	SMS(Hort) SMS (Agr) SMS(Ent)
		Mango	Poor soil fertility	FLD: Enhancing fruit set and yield in Mango	Integrated Nutrient Management in mango	01	20	SMS(Hort) SMS (Agr)

								SMS(Ent)
		Blackpepper	Poor quality seedling	FLD : Footrot Management in blackpepper	Seedling production through CMS Technology	01	20	SMS(Hort) SMS (Agr) SMS(Ent)
		Blackpepper	Berry drop	OFT: Management of berry drop in blackpepper	Management of berry drop through INM and hormones	01	20	SMS(Hort) PC SMS (Agr) SMS(Ent) Farm Manager
		Cashew	Poor yield, poor quality nuts	-	Nutrient management in cashew	01	40	SMS(Hort) PC SMS (Agr)
		Banana	Low yield, low bunch weight	FFS: Production technologies in banana	Nutrient management and bunch feeding in banana	02	40	SMS(Hort) PC SMS (Agr) SMS(Ent) Farm Manager PA (Agr forestry)
		Ginger	Seed treatment	-	Seed treatment in ginger	02	45	SMS(Ent) SMS(Hort)
	<i>(Paid Training)</i>	Fruit crops	Grafting Technology		Grafting techniques in fruit crops	01	10	SMS(Hort)
10.3	Livestock Production	NIL						
10.4	Home Science							
10.5	Plant Protection	Paddy	Blast, leaf folder, ear head bug	FLD: Advanced production technologies for paddy cultivation	Identification of damage symptoms of insects and diseases of paddy and their management	02	45	SMS(Ent) SMS (Agronomy)
		Paddy	Stem borer	FLD: Advanced production technologies for paddy cultivation	Monitoring of stem borer through pheromone traps	01	20	SMS(Ent)
		Paddy	Stem borer	FLD: Advanced production technologies for paddy cultivation	Non pesticidal measures for the management of stem borer	02	45	PC SMS(Ent)
		Paddy	Blast	FLD: Advanced production technologies for paddy cultivation	Importance of Seed treatment	02	50	PC, SMS (Ent.), SMS (Agr)
		Paddy	Ear head bug	FLD: Advanced production technologies for paddy cultivation	Integrated management of ear head bug	01	25	SMS (Ent), SMS (Agr.), PC
		Ground nut	Aphids, Leaf miner,	FLD : ICM in Groundnut	Identification of damage symptoms of insects and	01	20	SMS(Ent) SMS (Agronomy)

			Spodoptera, Collar rot		diseases of groundnut and their management			SMS(Hort)
		Cotton	Shoot weevil,	FLD: : IPM in Bt Cotton	Role of trap crop Bhendi in management of shoot weevil	01	20	SMS(Ent) SMS (Agronomy) SMS(Hort)
		Cotton	sucking insects	FLD: : IPM in Bt Cotton	Identification of damage symptoms of Sucking insects of Bt cotton and their management	01	20	SMS(Ent) SMS (Agronomy) SMS(Hort)
		Pulses	Aphids, stem fly, pod bug, pod fly	FLD : Enhancing productivity of Blackgram under paddy residual moisture	Plant protection in pulses	02	45	SMS(Ent) SMS (Agronomy) SMS(Hort)
		Mango	Leaf hoppers and powdery mildew	FLD: Enhancing fruit set and yield in Mango	Management of leaf hoppers and powdery mildew in mango	01	20	SMS(Ent) PC SMS(Hort)
		Mango	Fruit fly	FLD: Enhancing fruit set and yield in Mango	Ecofriendly management of fruitflies	01	20	PC SMS(Ent) SMS(Hort)
		Cashew	TMB, CSR B and anthracnose	FLD : IPM in Cashew	Plant protection measures during flowering in cashew Integrated management of CSR B	02	30	SMS(Ent) SMS(Hort)
		Banana	Leaf roller, Pseudo stem weevil	OFT : Assessment of Green Labelled Insecticides for Banana Skipper Management	Identification of different stages of banana leaf roller and management strategies	02	40	SMS(Ent) SMS(Hort)
		Banana	Pseudo stem weevil	-	Ecofriendly approaches in the management of pseudostem weevil	01	25	SMS(Ent) SMS(Hort)
		Arecanut	Root grub	FLD: Promising technology to tackle nutdrop and rootgrub in Arecanut	Importance of drainage management and use of biopesticides in arecanut rootgrub management	02	35	SMS(Ent) SMS(Hort)
		Ginger	Stem borer and Rhizome rot	-	Integrated management of Rhizome rot and stem borer in ginger	02	45	SMS(Ent) SMS(Hort)
	(Paid Training)	Bee Keeping	Lack of knowledge on scientific bee keeping		Scientific Bee keeping	01	10	SMS(Ent)
10.6	Production of Inputs at Site							

10.7	Soil Health and Fertility	Arecanut	Inadaquate use of fertilizers	FLD:Promising technology to tackle nutdrop and rootgrub in Arecanut	Importance of soil test based fertilizer application	03	50	Farm manager, PC, SMS(Agr), SMS(Hort)
		Paddy		FLD: Advanced production technologies for paddy cultivation	Importance of soil test based fertilizer application	02	50	Farm manager, SMS(Agr),
10.8	PHT and value addition	Jackfruit	Under utilization jackfruit (Ambli variety)	-	Value added production of pulp and seed of jackfruit	02	35	SMS(Hort)
		Kokum	Local	-	Value addition in kokum	02	35	SMS(Hort)
10.9	Capacity Building Group Dynamics							
10.10	Farm Mechanization	Paddy	Labour scarcity		Transplanting techniques in paddy	02	50	PC, SMS(Agronomy) & Farm Manager
10.11	Fisheries Production Technologies							
10.12	Mushroom production							
10.13	Agroforestry	Melia dubia	Income, small timber and fuel wood, ecological degradation	FLD : Multipurpose trees on bunds/boundaries as source of income/fodder/fuel	Production technology of Melia dubia	01	50	Progr Asst (Agroforestry) & others
		Red sanders	Income, small timber and fuel wood, ecological degradation	FLD : Multipurpose trees on bunds/boundaries as source of income/fodder/fuel	Production technology of Red sanders	01	50	Progr Asst (Agroforestry) & others
10.14	Bee Keeping	Bee keeping	Lack of knowledge on scientific bee keeping practices	-	Maintenance of bee colonies during rainy and summer seasons	01	15	SMS(Ent) SMS(Hort)
10.15	Sericulture							
10.16	Lac culture	Lac cultivation	Lack of knowledge	OFT :Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District	Lac cultivation on Kusum Trees and flemingia Plant protection measures in Lac Cultivation	04	75	SMS(Ent) PC PA(Agroforestry)

11. Training for Rural Youth during 2016-17

S.No.	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)*	Training Course Title	No. of Courses	Expected participants(No)	Names of the team members involved
11.1	Crop Production	Paddy	Labour scarcity		Dapog Method of nursery production	1	20	SMS(Agr) PC SMS(Hort) SMS(Ent)
			Labour scarcity		Mechanized Paddy Transplanter as IG activity	1	20	SMS(Agr) PC SMS(Hort) SMS(Ent)
11.2	Horticulture Production	Arecanut	Nut dropping and splitting	FLD:Promising technology to tackle nutdrop and rootgrub in Arecanut	Nutrient management in arecanut	04	100	Farm manager, SMS(Agr), PC SMS(Ent) SMS(Hort)
		Blackpepper, Nutmeg	Poor Quality seedling	-	Seedling production & nursery management	01	75	SMS(Hort) PC SMS (Agr) SMS(Ent)
11.3	Livestock Production							
11.4	Home Science							
11.5	Plant Protection	-	Lack of knowledge on spraying equipments	-	Scientific knowledge reg. pesticide classification, different types of sprayers, types of nozzles	01	15	SMS(Ent) SMS (Agronomy) SMS(Hort)
11.6	Production of Inputs at Site							
11.7	Soil Health and Fertility	Plantation crops	Inadequate knowledge about soil sampling	-	Soil testing and soil sampling procedures	05	100	Prg. Asst(Soil Sci) , PC, PA(Agr)
11.8	PHT and value addition	Jackfruit	Under utilization jackfruit(Amli variety)	-	Value added production of pulp and seed of jackfruit	01	50	SMS(Hort)
11.9	Capacity Building Group Dynamics							
11.10	Farm							

	Mechanization							
11.11	Fisheries Production Technologies							
11.12	Mushroom production							
11.13	Agro forestry							
11.14	Bee Keeping	Apiculture	Lack of knowledge on scientific bee keeping practices	-	Bee keeping- a subsidiary income for rural youths	01	20	SMS(Ent) SMS(Hort),PC SMS (Agr)
11.15	Sericulture							
11.16	LAC Culture	Lac culture	Lack of knowledge	OFT :Evaluation of inoculation seasons for brood lac on Kusum tree in Uttara Kananda District	Lac cultivation on Kusum Trees and flemingia Plant protection measures in Lac Cultivation	02	30	SMS(Ent), SMS (Hort) PC PA(Agroforestry)
	Others, pl. specify							

12 Training for Extension Personnel during 2016-17

S.No.	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
12.1	Crop Production	Nutrient deficiency and its management in Maize	2	40	SMS(Agr),PC, Farm Manager SMS (Hort), SMS (Ent)
		Planting method of Sugarcane	1	20	SMS (Agr), PC SMS(Hort) SMS(Ent)
		Nutrient deficiency and its management in Paddy	2	40	SMS(Agr), PC Farm Manager
12.2	Home Science				
12.3	Capacity Building and Group Dynamics				
12.4	Horticulture	Production technology of Banana	01	15	SMS(Hort) PC SMS (Agr) SMS(Ent)
12.5	Livestock Production & Management				
12.6	Plant Protection	Pest surveillance and monitoring	01	30	SMS(Ent) PC SMS (Agronomy) SMS(Hort)
12.7	Farm Mechanization				
12.8	PHT and value addition				

12.9	Production of Inputs at Site				
12.10	Agroforestry				
12.11	Lac culture	Lac cultivation techniques on Bushy host <i>Flemingia semialata</i> Lac harvesting and processing techniques	02	30	SMS (Ag. Ent), SMS (Hort), PC PA(Agroforestry)
12.12	Fisheries				

13 Vocational trainings during 2016-17

Sl.No.	Thematic area and the Crop/Enterprise	Training title	No. of programmes and Duration (days)	Type of Clientele	Expected No. of participants	Sponsoring agency if any	Names of the team members involved
13.1	Crop Production	Vermi-composting	1 & 6 days	SHGs	30	-	SMS(Agronomy) SMS(Agri.Ent.) PC
13.2	Home Science						
13.3	Capacity Building and Group Dynamics						
13.4	Horticulture	Arecanut based cropping system	1 & 6 days	Rural Youths	20	-	SMS(Hort) SMS(Ent),SMS (Agr)
13.5	Livestock Production & Management						
13.6	Plant Protection						
13.7	Farm Mechanization	Dapog Nursery and Mecchanized transplanter in Paddy	1 & 15 days	Rural Youths	20	SRIJAN NGO	SMS (Agronomy) SMS(Ent) SMS(Hort)
13.8	PHT and value addition						
13.9	Production of Inputs at Site						
13.10	Sericulture						
13.11	Fisheries						

14 Sponsored trainings during 2016-17

Sl.No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Participants	Expected number of participants	Sponsoring agency	Names of the team members involved
14.1	Crop Production	Production Technologies in Field Crops	2 & 6 days	Farmer Facilitators	60	KSDA Bhuchetana Programme	SMS(Agr), PC SMS(Ent) SMS(Hort) Farm Manager
		Production Technologies in Field Crops	5 & 2 days	Rural Yuths	150	KSDA under Bhuchetan and ATMA	SMS(Agr), PC SMS(Ent) SMS(Hort) Farm Manager
14.2	Home Science						
14.3	Capacity Building and Group Dynamics						
14.4	Horticulture	Terrace gardening	2& 1 days	Women, SHGs	100	Dept. of Horticulture	SMS(Hort)
14.5	Livestock Production & Management						
14.6	Plant Protection	Coconut Palm climbing and plant protection	2 & 6 days	Rural Youth	20	NRLM, Coconut Development Board, Bangalore	SMS(Ent), PC SMS(Hort) SMS (Agr)
		IPM in Cashew	1& 1 day	Farmers/farm women/SHG	50	DCCD, Kochi	SMS (Ent.), SMS(Hort), PC, PA (AF)
14.7	Farm Mechanization	Dapog Nursery and Mechanized Paddy transplanter	2 & 2 days	Rural Youth	60	KSDA under Bhuchetan and ATMA	PC, SMS(Agr) SMS(Ent) SMS(Hort) Farm Manager
14.8	PHT and value addition						
14.9	Production of Inputs at Site						
14.10	Sericulture						
14.11	Fisheries						

15. Extension programmes during 2016-17

Sl.No.	Extension Programme/ Activity*	No. of programmes or activities	Expected number of participants	Names of the team members involved
15.1	Advisory Services	35	2500	PC & All SMS
15.2	Diagnostic visits	40	180	PC & All SMS
15.3	Field Day	10	500	PC & All SMS
15.4	Group discussions	5	100	PC & All SMS
15.5	Kisan Ghosthi	05	1000	PC & All SMS
15.6	Film Show	02	500	PC & All SMS
15.7	Self -help groups			
15.8	Kisan Mela			
15.9	Exhibition	07	100000	PC & All SMS
15.10	Scientists' visit to farmers field	160	280	PC & All SMS
15.11	Plant/Soil health/Animal health camps	01	200	PC & All SMS
15.12	Farm Science Club			
15.13	Ex-trainees Sammelan	02	50	PC & All SMS
15.14	Farmers' seminar/workshop	02	500	PC & All SMS
15.15	Method Demonstrations	20	200	PC & All SMS
15.16	Celebration of important days	05	200	PC & All SMS
15.17	Special day celebration	01	20	PC & All SMS
15.18	Exposure visits	05	100	PC & All SMS
15.19	Technology week,	01	500	PC & All SMS
15.20	FFS	01	30	PC & All SMS
15.21	Farm innovators meet	01	200	PC & All SMS
15.22	Awareness programs	02	500	PC & All SMS
15.23	Mass Media Coverage	10		PC & All SMS
15.24	Video Preparation	02		PC & All SMS
15.25	Print Media	10		PC & All SMS

16. Activities proposed as Knowledge and Resource Centre during 2016-17

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	New varieties of Paddy, Black gram, Cow pea, Ground nut and Maize, Mechanized paddy transplanter	0.20 ha	PC & All Technical Staff
16.1.2	Demonstration Units	Azolla, Fodder Unit, Vermicompost, Composting methods, Nutrition garden	0.10 ha	PC & All Technical Staff
		Dairy	-	PC & All Technical Staff
16.1.3	Lab Analytical services			
16.1.4	Technology Week	Seed treatment with pesticides, Biofertilizers & Biopesticides. Farm Mechanization, Post Harvest Technology Farmers innovations Seedling production Exhibition	-	PC & All Technical Staff

16.2 Technological Products : NIL

Sl.No.	Category	Name of the Production Partner Agency, if any	Name of the product	Quantity (q)/ Number planned to be produced during 2016-17	Names of the team members involved
16.2.1	Seeds				
16.2.2	Planting materials				
16.2.3	Bio-products				
16.2.4	Livestock strains				
16.2.5	Fish fingerlings				

16.3 Technological Information

	Category	Technological capsules / Number	Names of the team members involved
16.3.1	Technology backstopping to line departments		
	Agriculture	Seed treatment, Planting Methods, Sowing Methods, INM, IPM, Weed Management	PC, SMS Agronomy, Entomology, Horticulture, Agroforestry)
	Horticulture	Ginger & Blackpepper production Technology, Mulching	SMS (Horticulture, Entomology, Agronomy)
	Animal Husbandry		
	Fisheries		
	Agricultural Engineering		
	Sericulture		
	Others, pl. specify		

16.3.2	Literature/publication	Tree Fodder species of UK, Halivana mattu Dadasalu – A source of fodder / 500 each Planting methods in Sugarcane(1000) SSI in Sugarcane(1000) Sugarcane Trash Management(500) Nutrient deficiency symptoms of field crops (manual)(500) Plant protection measures in LAC cultivation(Folder) (500)	Prog. Asst(Agroforestry) SMS(Agronomy) SMS(Entomology)
16.3.4	Electronic Media	Plant protection measures in paddy (DVD)	PC, SMS(Ent & Agronomy), Prog.Asst(Comp)
16.3.5	Kisan Mobile Advisory Services	50	All Technical Staff
16.3.6	Information on centre/state sector schemes and service providers in the district.		

17. Additional Activities Planned during 2016-17

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	UAS,Dharwad	Research	Survey and surveillance of major pests of field and horticultural crops in UK district	-	Dr. Roopa.S.Patil
17.2	UAS,Dharwad	Research	Establishment of small scale lac processing unit in Uttar kannada distirct	300000.00	Dr. Roopa.S.Patil , Dr. K. Manjappa
17.3	NABARD	Extension	Youth – A Key for Future Agriculture and Agri Entrepreneurship	2700000.00	Mr. Shivashenkaramurthy M.
17.4	NHM	Extention	Production of Blackpepper and aromatic plants	220000.00	Dr. Akkamahadevi D. Agasimani

18. Revolving Fund**18.1 Financial status**

Opening balance as on 01.04.2015 (Rs.in Lakh)	Expenditure incurred during 2014-15 (Rs.in Lakh)	Receipts during 2014-15 (Rs.in Lakh)	Closing balance as on 31.01.2015 (Rs.in Lakh)	Expected closing balance by 31.03.2016 (Including value of material in stock/ likely to be produced)
6,94,450.52	729702.00	554445.00	605671.52	2281671.52

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	Caliandra seedling production	1000	5000	PA (Agroforestry) and all staff
18.2.2	Blackpepper seedling production	5000	50000	SMS(Horticulture) and all staff
18.2.3	IBA Root Hormone	5Kg	5000	SMS(Horticulture)
18.2.4	Arecanut seedling production	2000	60000	SMS(Horticulture) and all staff
18.2.5	Seed production (Paddy)	200 q	600000	SMS (Agronomy)

19. Activities of soil, water and plant testing laboratory during 2016-17

Sl.No.	Type	No. of samples to be analyzed	Names of the team members involved
19.1	Soil	3000	Farm manager working as PA (Soil Science) & SMS (Agronomy)
19.2	Water	2000	
19.3	Plant	-	
19.4	Others		

20. E-linkage during 2016-17

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	Soil Test Based Fertilizer Recommendations	ASP .NET
20.2	Creation and maintenance of relevant database system for KVK	OLRS	
20.3	Any other (Please specify)		

21. Activities planned under Rainwater Harvesting Scheme : - Not Applicable-

22. **Innovator Farmer's Meet :**

Sl.No.	Particulars	Details
22.1	Are you planning for conducting Farm Innovators meet in your district?	No
22.2	If Yes likely month of the meet	
22.3	Brief action plan in this regard	

23. **Farmers Field School (FFS) planned**

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.
23.1	Production technology	Improved Production technologies of Banana	30000.00

24. Budget - Details of budget utilization (2015-16) upto February 2016

S. No.	Particulars	Sanctioned	Released	Expenditure
	Recurring Contingencies			
1	Pay & Allowances	65,39,000	65,39,000	6810627
2	Traveling allowances	1,00,000	1,00,000	125228
3	Contingencies			
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	1,00,000	1,00,000	111351
<i>B</i>	POL, repair of vehicles, tractor and equipments	1,00,000	1,00,000	99405
<i>C</i>	Meals/refreshment for trainees	50,000	50,000	43075
<i>D</i>	Training material	25,000	25,000	21500
<i>E</i>	Frontline demonstration except oilseeds and pulses	86,000	86,000	59615
<i>F</i>	On farm testing	21,000	21,000	15820
<i>G</i>	Extension Activities	50,000	50,000	11670
<i>H</i>	Maintenance of buildings	0	0	0
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	0	0	0
<i>J</i>	Library	0	0	0
<i>K</i>	Farmers Field School	0	0	0
	Total Recurring	72,86,000	72,86,000	7298291
4	Non-Recurring Contingencies	0	0	0
1	Works	0	0	0
2	Equipments including SWTL & Furniture	0	0	0
3	Vehicle (Four wheeler/Two wheeler, please specify)	0	0	0
4	Library	0	0	0
	Total Non Recurring	0	0	0
	REVOLVING FUND	0	0	0
	GRAND TOTAL (A+B+C)	72,86,000	72,86,000	72,98,291

25.Details of Budget Estimate (2016-17) based on proposed action plan

S. No.	Particulars	BE 2016-17 proposed (Rs.)
	Recurring Contingencies	
25.1.1	Pay & Allowances	7800000.00
25.1.2	Traveling allowances	200000.00
25.1.3	Contingencies	
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	275000.00
<i>B</i>	POL, repair of vehicles, tractor and equipments	300000.00
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	100000.00
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	75000.00
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	293325.00
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	47350.00
<i>G</i>	Training of extension functionaries	--
<i>H</i>	Maintenance of buildings	50000.00
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	125000.00
<i>J</i>	Library	10000.00
<i>K</i>	Farmers Field School	30000.00
<i>L</i>	Extension Activities	50000.00
<i>M</i>	Integrated Farming System	100000.00
<i>N</i>	FLD under NFSM	350000.00
25.1	TOTAL Recurring Contingencies	9805675.00
25.2	Non-Recurring Contingencies	
25.2.1	Works	25000000.00
25.2.2	Equipments including SWTL & Furniture	200000.00
25.2.3	Vehicle	
25.2.4	Library	20000.00
25.2	TOTAL Non-Recurring Contingencies	25220000.00
25.3	REVOLVING FUND	
25.4	GRAND TOTAL	35025675.00

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