

**ICAR-ATARI – ZONE XI, BENGALURU**

**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	:	Uttara Kannada Phone/Fax : 08384-228411, Email id: kvkuks@gmail.com
2.	Name and address of host organization	:	University of Agricultural Sciences, Dharwad Krishi Nagar, Dharwad <a href="http://www.kvkuttarkannada.org">www.kvkuttarkannada.org</a>
3.	Year of sanction	:	2004
4.	Name of agro-climatic zone	:	Zone -9 & Zone-10
5.	Major farming systems/enterprises	:	Areca nut based Multi cropping Paddy-Pulses, Paddy-Groundnut Pineapple, Ginger, Maize
6.	Soil type	:	Sandy alkaline soils (Coastal Zone) Laterite soils (Hill Zone) red loam to medium black soils (Transitional Zone)
7.	Annual rainfall (mm)	:	2500

## 2. Details of staff as on date

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Existing Pay band	Grade Pay	Date of joining	P / T	If vacant action plan for filling the post on permanent basis
1.	Senior Scientist and Head	Dr.Manju M.J	Plant Pathology	37,400	9000	23.10.2017	P	
2.	Scientist	Dr.Roopa S.patil	Agri.Entomology	24,080	7000	03.12.2008	P	
3.	Scientist	Shri.Shivashankarmurthy m	Agronomy	19,050	6000	28.11.2011	P	
4.	Scientist	Shri.Venkatesh .L	Agroforestry	17,610	6000	05.05.2016	P	
5.	Scientist	Dr.Shweta Biradar	Home Science	18,840	6000	17.02.2017	P	
6.	Scientist	Dr.Santosh Shinde	Animal Science	18,840	6000	12.04.2017	P	
8.	Scientist	Dr.Santhosh H.M	Horticulture	18,840	6000	23.05.2017	P	
9.	Programme Assistant	Shri.Siddappa Kannur	Agroforestry	12,430	4200	02.08.2013	P	
10.	Computer Programmer	Smt.Annapurna F Neeralagi	Prog.Asst. Computer	12,430	4200	29.03.2010	P	
11.	Farm Manager	Dr. Krishna K S	Sericulture	11,010	4200	14.02.2018	P	
12.	Assistant	Smt.Sumalatha S.P	Assistant	16,800	-	05.09.2015	P	
13.	Stenographer	Ku.Purnima K Hirehal	Typist	19,500	-	12.11.2009	P	
14.	Driver 1	Shri Balappa Taragar	Driver (L.V)	12,750	-	02.04.2018	P	
15.	Driver 2	-	-	-	-	-	-	UASD
16.	Supporting staff 1	shri. Nadaf A Hajarath	Asst.cook.cu m.care taker	12,500	-	02.08.2007	P	
16.	Supporting staff 2	-	-	-	-	-	-	UASD

## 3. Details of SAC meeting conducted during 2018-19

Sl.	Tentative date of SAC
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No	meeting proposed during 2018-19
01	August 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	-	-	-	-
2.	Scientist - Plant Protection	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	Pest Risk Analysis - a tool in selection of quality planting material and pest forecast from 1-21, Nov, 2017 at NAU, Navsari
		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	Early Career Motivation Course from 26.11.17 to 30.11.17 at UAS, Dharwad
		-	-	-	Orientation training on latest and emerging technologies of NBAIR on 5.2.18
3.	Scientist Home Science	Home Made Chocolates	ICAR-KVK Nilgiris	To develop homemade chocolate entrepreneurs in the district	Induction Training Programme atUASD from 24-04-2017 to 6-05-2017
		-	-	-	Strategies for mainstreaming women in agriculture, MANAGE Hyd, 19-06-2017 to 22-06-2017
		-	-	-	Orientation Training Programme to KVK , Staff, ICAR KVK Gadag, 10-08-2017 to 12-08-2017
		-	-	-	Orientation to KVK Home Scientists, ICAR-KVK Tumkur, 9.02.2018
4.	Scientist – Animal Science	Fodder grasses for	IGFRI, Jhansi	Feeding of quality green fodder is	Induction training for newly recruited AP

		livestock		needed for higher milk production. There is a need to acquire knowledge on recent grass varieties, its cultivation and etc.	cadre faculty of UAS, Dharwad, From 24-04-17 to 06-05-17
					Orientation training on latest and emerging technologies of NIANP on 6.2.18
					Skills for profitable agriculture through mechanization, EEI – Hyderabad, From 25-29 July-2017.
5.	Scientist - Agroforestry	Production of Quality planting materials of important MPTs	IWST,Bangalore	Lack of knowledge on quality seedling production of MPTs	Statistical Techniques in Agricultural Research (STAR) organized by Department of Statistics, College of Agriculture at UAS, Dharwad (19 <sup>th</sup> December,2017 to 8 <sup>th</sup> January,2018)
		Agroforestry policies, issues Schemes	Karnataka State Forest Department	Lack of knowledge on policy issues on cultivation of MPTs	Early Career Motivation Course from 26.11.17 to 30.11.17 at UAS, Dharwad
6	Computer Programmer	Mobile App Development	C-DAC, Hyderabad	To develop mobile apps	-
		Web application development using free tools	CISR, New Delhi	To create more impressive website for KVK.	-

### B. Cross-learning across KVKs

S. No	Name of the KVK proposed	Purpose	Mode of learning
1.	ICAR – KVK, Gonikoppal	Homemade cocoa chocolates	Training
2.	ICAR-KVK, Bidar	Technological capsules Visit to progressive farmers fields	Exposure Visit
3.	ICAR-KVK, Ahmednagar	ICT	Exposure Visit

### 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	Gadag	Formation of commodity groups, Post harvest and value addition,	Value added products	Exposure visit
2	Udupi	Technical knowledge on horticulture crops, nursery techniques and demonstration units	Technology capsules for horticultural crops	Exposure visit
3	Dharwad	Pulse seed production	Procurement of seeds	Exposure visit

### 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				
01	Sirsi	Kanagod Ajjibal Agasal Bomnalli	Achanalli Narebail Kansuru Byagadde Ugremane Savale Javalagundi Boppanalli Neernalli Holgod Hadalagi Balagundli Kalli	Paddy Arecanut Blackpepper Dairy	<b>Paddy :</b> <ul style="list-style-type: none"> <li>• Pest &amp; Disease in Paddy</li> <li>• Poor nutrient status of soils</li> </ul> <b>Arecanut :</b> <ul style="list-style-type: none"> <li>• Rootgrub</li> <li>• Poor nutrition</li> <li>• Soil erosion</li> <li>• Weed menace</li> </ul> <b>Dairy:</b> <ul style="list-style-type: none"> <li>• Repeat Breeding</li> <li>• Scarcity of fodder</li> <li>• Poor Nutrition supplement</li> <li>• Low conception rate</li> <li>• Wastage of locally available fodder</li> </ul> <b>Home Science</b>	<b>Crops :</b> ICM in Paddy  ICM in arecanut  <b>Dairy :</b> Use of PG protocols, enrichment of fodder,  Enrichment of dry fodder  Introduction of multicut fodder variety  Use CIDR Synch  <b>Home Science</b> Nutritional Garden	1 yr

					<ul style="list-style-type: none"> <li>•Poor nutritional status of the adolescents Poor nutrition</li> <li>•Lack of awareness on value addition in Kokum (powder)</li> <li>•Low Marketing of Garments due to poor finishing and lack of surface enrichment</li> </ul> <p><b>Forestry :</b></p> <ul style="list-style-type: none"> <li>• Fallow Bettalands</li> <li>• Fodder scarcity</li> <li>• Under utilization of betta lands and bunds</li> </ul>	<p><b>EDP :</b> Processing</p> <p>EDP : Value addition to clothes</p> <p><b>Forestry :</b> MPTs TBOs Silvi-pastoral System Introduction of Sheme bamboo</p>	
2	Banavasi (Sirsi Tq.)	Banavasi Kenchagadde	Kalli Dodnalli	Paddy Blackgram Arecanut Blackpepper Ginger Pineapple Dairy	<p><b>Paddy :</b></p> <ul style="list-style-type: none"> <li>• Pest &amp;Disease in Paddy</li> <li>•Poor nutrient status of soils</li> </ul> <p><b>Arecanut :</b></p> <ul style="list-style-type: none"> <li>•Rootgrub</li> <li>• Poor nutrition</li> <li>•Soil erosion</li> <li>• Weed menace</li> </ul> <p><b>Ginger :</b></p> <ul style="list-style-type: none"> <li>•Ginger rhizome rot</li> <li>•Stem borer</li> </ul> <p><b>Pineapple:</b></p> <ul style="list-style-type: none"> <li>•Heart rot</li> </ul> <p><b>Dairy:</b></p> <ul style="list-style-type: none"> <li>• Repeat Breeding</li> <li>• Scarcity of fodder</li> <li>•Poor Nutrition supplement</li> <li>•Low conception rate</li> </ul>	<p><b>Crops:</b> ICM in Paddy ICM in Maize ICM in arecanut Disease management in ginger and pineapple</p> <p><b>Dairy :</b> Introduction of multicut fodder variety  Use CIDR Synch</p>	-
3	Mundagod		Hirehalli Kalakoppa Ajjalli Malagi	Paddy Maize Cotton Arecanut Ginger Vegetables Dairy	<p><b>Maize:</b></p> <ul style="list-style-type: none"> <li>• Pest &amp;Disease</li> <li>•Poor nutrition</li> </ul> <p><b>Arecanut :</b></p> <ul style="list-style-type: none"> <li>•Rootgrub</li> <li>• Poor nutrition</li> <li>•Soil erosion</li> <li>• Weed menace</li> </ul> <p><b>Vegetables</b></p>	<p>ICM in Paddy ICM in Maize ICM in arecanut</p> <p><b>Arecanut:</b> Suitable mulch crop for areca gardens</p>	-

					<ul style="list-style-type: none"> <li>•Drudgery</li> <li>•Labour scarcity</li> </ul>	<b>Vegetables</b> Farm mechanization	
4	Yellapur		Kiruvatti Gowliwada Mainalli Kanakodlu Ummachagi Bapat shindi	Paddy Cotton Areanut Blackpepper Dairy	<p><b>Blackpepper:</b></p> <ul style="list-style-type: none"> <li>•Sucking pests</li> <li>•Poor nutrition</li> <li>• Alternate training standard for black pepper</li> </ul> <p><b>Cotton:</b></p> <ul style="list-style-type: none"> <li>•Pest &amp; diseases</li> <li>•Square &amp; boll drop</li> </ul> <p><b>Dairy:</b></p> <ul style="list-style-type: none"> <li>• Repeat breeding</li> <li>•Low milk yield</li> </ul>	<p><b>Black pepper :</b> Ecofriendly management of sucking pests</p> <p>MPTs as alternate pepper standards</p> <p><b>Cotton :</b> ICM in Cotton</p> <p><b>Dairy:</b> Use of PG protocol</p>	-
5	Ankola		Sakalabena Varilbena Aregadde Kheni	Groundnut Watermelon Cashew Paddy Dairy	<p><b>Groundnut :</b></p> <ul style="list-style-type: none"> <li>• Sucking pests, collar rot, Tikka</li> <li>•Soil acidity</li> </ul> <p><b>Watermelon:</b></p> <ul style="list-style-type: none"> <li>• Mal formed fruits,</li> <li>• Poor pollination,</li> <li>• Bud necrosis</li> <li>• Nutrient deficiency</li> <li>• Sucking pests</li> </ul> <p><b>Cashew:</b></p> <ul style="list-style-type: none"> <li>• Stem borer</li> <li>• Tea mosquito bug</li> </ul>	<p>ICM in groundnut</p> <p>ICM in Water melon</p> <p>IPM in cashew</p>	-
6	Haliyal		Jataka Hosur Janaga	Paddy Sugarcane Cotton Vegetables Dairy	<p><b>Paddy :</b></p> <ul style="list-style-type: none"> <li>• Pest &amp;Disease in Paddy</li> <li>•Poor nutrient status of soils</li> </ul> <p><b>Cotton:</b></p> <ul style="list-style-type: none"> <li>•Pest &amp; diseases</li> <li>•Square &amp; boll drop</li> </ul> <p><b>Sugarcane :</b></p> <ul style="list-style-type: none"> <li>• Low yield</li> </ul> <p><b>Dairy:</b></p> <ul style="list-style-type: none"> <li>• Repeat breeding</li> <li>•Low milk yield</li> </ul>	<p>IFS</p> <p>IPM in paddy, cotton</p> <p><b>Dairy :</b> Fodder enrichment, disease management</p>	-
7	Joida		Ramanagar	Areanut Blackpepper Paddy Dairy	<p><b>Paddy :</b></p> <ul style="list-style-type: none"> <li>• Pest &amp;Disease in Paddy</li> <li>•Poor nutrient status of soils</li> </ul> <p><b>Areanut :</b></p> <ul style="list-style-type: none"> <li>•Rootgrub</li> <li>• Poor nutrition</li> </ul> <p><b>Black pepper</b></p> <ul style="list-style-type: none"> <li>• Low yield</li> </ul>	<p>IFS</p> <p>ICM in paddy ICM in areanut ICM in black pepper</p> <p><b>Dairy :</b> Fodder enrichment, disease management</p>	

					<b>Dairy:</b> • Repeat breeding • Low milk yield		
8	Bhatkal		Chitrapur	Jasmine	Jasmine : Leaf spot, Eriophyid Mites, Low yield	ICM in Jasmine	

### B. Prioritized problems and KVK interventions proposed:

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)				
				OFT	FLD	Training	Extensi on progra mmes	Productio n of technolog y inputs
Home Science	Sirsi and Mundagod	Poor nutritional status of the adolescents and lack of knowledge regarding importance of nutrients	Promotion of Nutritional Garden In Schools.		Y			
Home Science	Banavasi	Lack of awareness on value addition in Kokum (powder)	<b>EDP mode:</b> value addition and marketing of Kokum Powder		EDP			
Home Science	Yellapur	Low Marketing of Garments due to poor finishing and lack of surface enrichment to garment	<b>EDP mode:</b> Up scaling the marketing of Garments through Surface enrichment		EDP			
Home Science	Sirsi and Yellapur	Under utilization of time, lack of entrepreneurship skills, less social engineering and financial backup	Empowerment of Rural Women Folk Through Income Generating Activities			Y		
Home Science	Sirsi and Mundagod	Unawareness of rural youths regarding agriculture as business	Organising Master training for School Teachers			Y		
Home Science	Sirsi and Yellapur	Unavailability of relevant literature for immediate	Developing relevant Publications in the form of Print				Y	



		practical reference	and Electronic Media (Folders/ Leaflets, CD'S/ YouTube films)					
Home Science	Siddapur	Unawareness of nutritional value of wild vegetables	Rejuvenating and promoting use of wild native vegetables through organising workshop and traditional food competitions				Y	
MPTs	Sirsi and Yellapur	Need to evaluate MPTs for pepper standard	Evaluation of <i>Melia dubia</i> , Silveroak and Arecanut for pepper standard	Yes				
TBOs/NTFPs	Sirsi	Improper utilization of betta lands  Soil erosion Loss of species diversity	Cultivation of TBOs/NTFPs in bettalands of Uttara Kannada district		Yes			
NTFPs	Sirsi	Improper utilization of betta lands  Soil erosion Loss of species diversity	Cultivation of NTFPs in bettalands of Uttara Kannada district		Yes			
Scheme bamboo	Sirsi	Improper utilization of farm bunds, Low income, Poor soil fertility, soil erosion	Cultivation of Dendrocalamus stocksii (Marihal Bamboo) on bunds and boundaries of farm land : A additional source to the farm income		Yes			
Fodder trees	Sirsi	Improper utilization of Betta lands and	Efficient utilization of bettalands		Yes			

		loss of species diversity	through silvipastoral system for sustainable land use					
Livestock	Local Villages	Repeat Breeding	Supplementation of dewormer and Minerals, Followed by treatment with Pragma (PG) protocol		Y	Y		
Livestock	Sirsi	Anoestrus	Supplementation of dewormer and Minerals, Followed by treatment with CIDR implant,		Y	Y		
Feed and Fodder	Sirsi	Poor nutrition supplement, Infertility, Low milk Yield	Introduction of Multicut Sorghum (COFS-31) and Stylo grasses		Y	Y		
Feed and Fodder	Sirsi	High cost of feed, Poor nutrition in fodder, low milk yield, Wastage of locally available fodder	Feeding of enriched areca sheath as source of fodder		Y	Y		
Arecanut	Mundagod	Soil erosion, Weed menace, High labour cost, Low yield	Mulching and cover crop	Y		Y	Y	Y
Black pepper	Sirsi	Foot rot disease, Berry drop, Sucking insect, Micronutrient deficiency	<ul style="list-style-type: none"> <li>•Phytosanitation and adequate drainage</li> <li>•Soil Test based RDF application</li> <li>•Foliar application of Black pepper special @ 5 g/l at spike initiation, 2<sup>nd</sup> spray after two months spray</li> <li>•Spray with dimethoate (1.7</li> </ul>		Y	Y	Y	Y

			ml/l) during emergence of new flushes in young vines <ul style="list-style-type: none"> <li>• After the receipt of a few monsoon showers, vines are to be drenched with metalaxyl mancozeb (0.125%) @ 5-10 litres/vine.</li> <li>• A foliar spray with metalaxyl mancozeb (0.125%)</li> </ul>					
Jasmine	Ankola	Leaf spot, Eriophyid Mites, low yield, pruning, Improper nutrient management	<ul style="list-style-type: none"> <li>• Pruning during December-January</li> <li>• Soil Test based RDF application</li> <li>• Spray with Dicofol (2.5 ml/l)</li> <li>• Two spray of Hexaconzole (1 ml/lit) at 15 days interval</li> </ul>		Y	Y	Y	
Banana	Sirsi	Reduced bunch weight, poor filling of fingers, fruit cracking, low yield	<ul style="list-style-type: none"> <li>• Foliar spray through the Banana Special @ 5 g/l during 5<sup>th</sup> month after planting, 4 sprays at monthly interval</li> <li>• Removal of male bud after appearance of last hand in bunch</li> <li>• Propping to avoid damage to the crop due to heavy wind</li> <li>• Nutrient feeding through</li> </ul>		Y	Y	Y	

			the distal end of the bunch peduncle after denavelling •Bagging of bunch with polypropelene covers after emergence of last hand					
Arecanut	Sirsi	Nut drop and Nut split In arecanut	ZnSO <sub>4</sub> @ 25 g/Palm Borax @ 25 g/Palm Drainage Management			Y	Y	
Horticulture crops	Mundagod	Deficiency of macro and micro nutrients in Horticulture crops	Soil test based RDF application			Y		
Mango	Mundagod	Mango ripening methodology	Use of ethylene to ripe mango			Y	Y	
Arecanut and Black pepper	Siddapura	soil acidity	Dolomite 250 g/Palm			Y		
Horticulture crops	Sirsi Siddapura	Propagation techniques	Asexual methods of propagation in major Horticulture crops			Y	Y	

## 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.	Evaluation of suitable mulch material for arecanut plantation	Soil, conservation Weed management	Horticulture crops	Blackpepper	Panniyur - 1	Irrigated	<b>Soil erosion, Weed menace, High labour cost, Low yield</b>	0.6	03	Mucuna seeds Cowpea seeds <i>Stylosanthes gracilis</i> Soil test <b>Total: 14700.00</b>
2	Evaluation of Multi Purpose Trees (MPT) as pepper standards (Continued)	MPTs	Pepper	<i>Melia dubia</i> , silveroak and Arecanut	-	Rainfed	Need to evaluate Existing fast growing MPTs	0.5 ha	05	Pepper seedlings for gap filling 45no. @ Rs. 15 per seedling <b>Total: 3375.00</b>

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	Evaluation of suitable mulch material for arecanut plantation	05	00	00	00		<i>Stylosanthes gracilis</i> as mulch cum cover crop in arecanut	UHS, Bagalkot
2	Evaluation of Multi Purpose Trees (MPT) as pepper standards (Continued)	3	1	1		Black pepper with Arecanut	Black pepper with <i>Grevillia robusta</i> (Silveroak) black pepper with <i>Melia dubia</i> (Hebbevu)	KAU, Thrissur

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
1	Evaluation of suitable mulch material for arecanut	Dried areca leaves, forest leaves	ITK	Velvet beans ( <i>Mucuna</i> ) var. Arka Ashwini as	IIHR, Bengaluru	Cowpea var Arka Garima as mulch cum cover	IIHR, Bengaluru		

	plantation	and grass as mulch		mulch cum cover crop in arecanut		in arecanut			
2	Evaluation of Multi Purpose Trees (MPT) as pepper standards (Continued)	Black pepper with Arecanut	UHS,Bagalkot	Black pepper with <i>Grevellia robusta</i> (Silveroak)	KAU,thrissur	black pepper with <i>Melia dubia</i> (Hebbevu)	KAU,Thrissur	-	-

SNo	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	Evaluation of suitable mulch material for arecanut plantation	Yield of main crop and Cover crop	q/ha	Soil nutrient status	Kg/ha	B:C ratio	
2	Evaluation of Multi Purpose Trees (MPT) as pepper standards (Continued)	Black pepper yield	q/ha	Survival per cent	%	Support	%

**7.A.2. Livestock : Nil**

**7.A.3. Enterprise : Nil**

**7.A.4. Farm Implement : NIL**

## 7.B Frontline Demonstrations

### 7.B.1. Crops

S N	Title	Thematic Area	Crop Category	Crop Name	Variety / Hybrid Name	Farmin g Situation	No. of dem os	Area (ha)	Seaso n	Previo us Crop
1	2	3	4	5	6	7	8	9	10	11
01	Advanced Production Technologies for Profitable Paddy Cultivation	Integrated Crop Management	Cereals	Paddy	Variety	Rainfed	15	6	Kharif	Pulses/Fallow
02	ICM in Maize with Special Emphasis on Weed and Nutrient Management	Integrated Crop Management	Cereals	Maize	Hybrid	Rainfed	15	06	Kharif	Pulse/Fallow
03	ICM in watermelon	Production	Fruits	Watermelon	Private hybrids	Irrigated	5	2.5	Rabi	Paddy
04	IPM in Bt Cotton	Plant protection	Commercial crops	Cotton	BG II	Rainfed	10	4	Kharif	Fallow
05	IPM in Cashew	Plant Protection	Horticulture crops	Cashew	Local/Vengurla	Rainfed	10	25 trees per demo	Rabi/summer	Cashew
06	ICM in Black pepper	ICM	Spices	Black Pepper	Panniyur-1	Irrigated	05	1	Kharif	Black Pepper
07	ICM in Jasmine	ICM	Flowers	Jasmine	Bhatkal Mallige	Irrigated	05	1	Kharif	Jasmine
08	Efficient utilization of betta lands through cultivation of TBO's for sustainable land use (Continued)	Agroforestry	TBOs	<i>Pongamia pinnata</i> , <i>Simarouba glauca</i> , <i>Mesua ferrea</i> , <i>Madhuca latifolia</i> , <i>Calophyllum inophyllum</i>	-	Rainfed	10	0.5 ha	Kharif	Fallow betta lands

09	Efficient utilization of betta lands through cultivation of NTFPs for sustainable land use (Continued )	Agroforestry	NTFPs	<i>Myristica malabarica</i> , <i>Garcinia indica</i> , <i>Syzygium cumini</i> , <i>Emblica officinalis</i> & <i>Sapindus laurifolius</i>	-	Rainfed	10	0.5 ha	Kharif	Fallow betta lands
10	Cultivation of <i>Dendrocalamus stocksii</i> (Scheme Bamboo) on bunds/boundaries of farm land : A additional source to the farm income	Agroforestry	Commercial bamboo	Seme bamboo	<i>Dendrocalamus stocksii</i>	Rainfed	05	0.5 ac	Kharif	Fallow bund
11	Efficient utilization of bettalands through silvipastoral system for sustainable land use	Agroforestry	Fodder tree crops	<i>Sesbania grandiflora</i> <i>Calliandra calothyrsus</i>  <i>Erythrina indica</i> <i>Leucaena leucocephala</i> (Subabul ) <i>Gliricidia sepium</i> <i>Albizia lebbeck</i> <i>Inga dulces</i> <i>Stylozanthus hamata</i> <i>Guinea grass/Co-3</i>	Local	Rainfed	10	0.5 ha	Kharif	Fallow betta lands



12	Nutritional Garden for Schools and farming community	Promotion of Nutritional Garden In Schools and farming community	Vegetables, Green Leafy Vegetables, Roots and Tubers and Fruits	-	-	Rainfed	06	0.01	Rabi	-
13	EDP on value addition and marketing of Turmeric product	Value addition	Horticulture	Turmeric	-	-	05	SHG Group	-	-
14	EDP on value addition and marketing of Kokum product	Value addition	Forestry	Kokum	-	-	05	SHG Group	-	-
15	EDP - Upscaling the marketing of Garments	Textile (Surface Embellishing of garments)	-	-	-	-	01	SHG Group	-	-

SN	Title	Male		Female		Farmers Practice	Recommended Practice	Source of Technology Recommended Practice
		Oth	SC/ST	Others	SC/ST			
1	2	10	11	12	13	14	15	16
01	Advanced Production Technologies for Profitable Paddy Cultivation	12	03	0	0	Without ICM and Rasi Variety	<ul style="list-style-type: none"> <li>• Incorporation of sunhemp/diancha</li> <li>• Demonstration of PSB-68</li> <li>• Seed treatment with Carbendazim 2 g/kg seed</li> <li>• Seedling treatment with Bio-fertilizers @ each 500 g/acre</li> <li>• Application of ZnSO4</li> <li>• Application of Butachlor @ 1 kg/acre</li> <li>• Plant protection measure</li> </ul>	UAS, Dharwad

							for leaf folder, stem borer, earhead bug and blast Variety: PSB-68	
02	ICM in Maize with Special Emphasis on Weed and Nutrient Management	12	03	0	0	Without ICM	<ul style="list-style-type: none"> <li>• Use of Atrazine @ 2.5 kg/ha</li> <li>• ZnSO<sub>4</sub> @ 25 kg/ha</li> <li>• Seed treatment with Trichoderma @ 6 g/Kg seed</li> <li>• RDF 150:75:37 5 kg/ha</li> <li>• Borax 2.5 kg /ha</li> <li>• Stem borer management by Clorantriliprole @ 0.2 ml/l</li> <li>• Leaf blight management by Hexaconazole 5 EC @ 1 ml/l</li> <li>• Hybrid: CP-818 &amp; NK 6240</li> </ul>	UAS, Dharwad
03	ICM in watermelon	05		0	0	No plant protection measures against sucking insects,	Installation of Bee colony @ 1 per acre Pinching technique Foliar spray of nutrients Arka Vegetable special 5g/l, Fipronil 1ml/l against sucking insects Metalaxyl + Mancozeb 2g/l against Fusarium wilt	UHS Bagalkot and IIHR, Bengaluru
04	IPM in Bt Cotton	6	4	-	-	Without integrated plant protection measures	<ul style="list-style-type: none"> <li>• Use of Bhendi crop as Trap Crop</li> <li>• Management of sucking pests through Dinotefuran</li> <li>• 20% SG @ 0.15 g/l</li> <li>• Management of boll and square drop through</li> <li>• Planofix @ 0.25 ml/l</li> <li>• Delta trap for PBW @ 2 per acre for monitoring and Lambda Cyhalothrin 0.5 ml/l spray for management</li> </ul>	UAS, Dharwad
05	IPM in Cashew	8	2	0	0	No plant protection measures against CSRB, one spray either monochrotoph os or	Phyto Sanitation Prophylactic treatment : Swabbing tree trunk upto 1m height from ground with coaltar and kerosene (1:2) twice a year (Mar-Apr & Nov-Dec) to prevent egg laying.	DCR, Puttur

						Chlorpyrifos for TMB	Curative: Swabbing the CSRFB infested portion with Chlorpyrifos & drenching the root zone. Foliar spray of Dimethoate @ 1.7 ml/l followed by Lambda cyhalothrin @ 0.6 ml/l during flushing, flowering & fruit set to manage TMB .	
06	ICM in Black pepper	5	-	-	-	Without integrated crop management	<ul style="list-style-type: none"> <li>• Phytosanitation and adequate drainage</li> <li>• Soil Test based RDF application</li> <li>• Foliar application of Black pepper special @ 5 g/l at spike initiation, 2<sup>nd</sup></li> <li>• Spray after two months spray</li> <li>• Spray with dimethoate (1.7 ml/l) during emergence of new flushes in young vines</li> <li>• After the receipt of a few monsoon showers, vines are to be drenched with metalaxyl mancozeb (0.125%) @ 5-10 litres/vine.</li> <li>• A foliar spray with metalaxyl mancozeb (0.125%)</li> </ul>	IISR
07	ICM in Jasmine	05	0	0	0	No pruning, improper nutrient mnt and plant protection measures	<ul style="list-style-type: none"> <li>• Pruning during December-January</li> <li>• Soil Test based RDF application</li> <li>• Spray with Dicofol (2.5 ml/l)</li> <li>• Two spray of Hexaconzole (1 ml/lit) at 15 days interval</li> </ul>	UHS Bagalkot
08	Efficient utilization of betta lands through cultivation of TBO's for sustainable land use (Continued )	3	2	-	-	Native tree species Collection of leaf litter	Introduction of TBO's in bettalands for sustainable land use	KAU, Thrissur

09	Efficient utilization of betta lands through cultivation of NTFPs for sustainable land use (Continued )	3	2	-	-	Native tree species Collection of leaf litter	Introduction of TBOs in bettalands for sustainable land use	KAU,Thri sur
10	Cultivation of <i>Dendrocalamus stocksii</i> (Marihal Bamboo) on bunds/boundaries of farm land : A additional source to the farm income	3	2	-	-	Without trees on farm bund cultivation	Cultivation of Seme bamboo on farm bund /boundaries	UAS, Dharwad &DBSSK V, Dapoli
11	Efficient utilization of bettalands through silvipastoral system for sustainable land use	8	2	0	0	Fallow betta lands  Collection of leaf litter	<i>Sesbania grandiflora</i> <i>Calliandra calothyrsus</i> <i>Erythrina indica</i> <i>Leucaena leucocephala</i> (Subabul) <i>Gliricidia sepium</i> <i>Albizzia lebbeck</i> <i>Inga dulces</i> <i>Stylozanthus hamata</i> Guinea grass/Co-3	KAU, Thrissur
12	Nutritional Garden for Schools and farming community	-	-	06	-	Fallow	Nutritional Garden	UASD
13	<b>EDP</b> on value addition and marketing of Turmeric product	03	02	15	05	Use of Dry Turmeric	Turmeric powder	HRS, Sirsi
14	<b>EDP</b> on value addition and marketing of Kokum product	03	02	15	05	Use of Dry kokum	kokum powder	HRS, Sirsi
15	<b>EDP</b> - Up scaling the marketing of Garments	-	-	15	05	Basic Stitching	Surface Embellishing of garments	AICRP – Textile and Apparel Designing , UASD

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
01	Advanced Production Technologies for Profitable Paddy Cultivation	Soil Testing Diancha/ sunhemp Paddy Seeds Azospirillum PSB ZnSO <sub>4</sub> Butachlor Carbendazim 80 wp Tricyclazole 75 WP Pheromone traps Imidacloprid Chlorpyrifos 20 EC Malathion 50 EC <b>TotalAmount : 65550.00</b>	Yield	Q/ha	No. of stem borer moths trapped	Number/hill	No. of tillers	number/hill
02	ICM in Maize with Special Emphasis on Weed and Nutrient Management	Atrazine MOP ZnSO <sub>4</sub> Borax Clorantriliniprole Hexaconazole Soil Testing <b>TotalAmount : Rs. 37275.00</b>	Yield	Q/ha	Weed control efficiency	Percentage	insect pest & disease	Percentage
03	ICM in watermelon	Bee colony with Apis cerana colony @ 1/ac Arka Vegetable special @ Fipronil Metalaxyl + Mancozeb <b>Rs. 36250.00</b>	Yield (crop and honey) and Economics	q/ha for Crop Kg/colony for Honey	Mal formed fruits	Percentage	Wilting	Percentage
04	IPM in Bt Cotton	Bhendi seeds Dinotefuran 20% SG @ 0.3 g/l Planofix @ 0.25 ml/l Delta trap for PBW @ 2 per acre for monitoring Lambda cyhalothrin 5 EC Soil Testing <b>Rs. 14900.00</b>	Yield and Economics	q/ha	Sucking insects (Aphids and leaf hoppers) population	No of insects per 3 leaves	Reduction in square and boll drop	Percentage
05	IPM in Cashew	Chlorpyrifos 20 EC @ 10 ml/l Lambda cyhalothrin 5 EC @ 1 ml/l Dimethoate @ 1.7 ml/l <b>Rs. 10750.00</b>	Yield (nut) and Economics	q/ha	Incidence of TMB and shrivelled nuts	Percentage	Wilting	Percentage
06	ICM in Black pepper	Dimethoate Black pepper special Metalaxyl mancozeb	Yield and Economics	q/ha	Intensity of Foot rot disease	Percentage	Reduction in sucking pest incidence	Percentage

		Soil test <b>Rs. 22,500.00</b>						
07	ICM in Jasmine	Secature Dicofol Hexaconazole Soil test <b>Rs.14,000.00</b>	Yield	(Kg/ha)	Percent leaf incidence by Eriophyid mite	Percent	Leaf spot disease	Percent
08	Efficient utilization of betta lands through cultivation of TBO's for sustainable land use	<i>Pongamia pinnata</i> , <i>Simarouba glauca</i> , <i>Mesua ferrea</i> , <i>Madhuca latifolia</i> , <i>Calophyllum inophyllum</i> 10 no. X 5 =50 @ Rs.15 <b>Rs.7500.00</b>	Survival percent	%	Yield	Kg/tree	B:C	-
09	Efficient utilization of betta lands through cultivation of TBO's for sustainable land use	<i>Myristica malabarica</i> , <i>Garcinia indica</i> , <i>Syzygium cumini</i> , <i>Emblca officinalis</i> & <i>Sapindus laurifolius</i> 10 no. X 5 =50 @ Rs.15 <b>Rs.7500.00</b>	Survival percent	%	Yield	Kg/tree	B:C	-
10	Cultivation of <i>Dendrocalamus stocksii</i> (Marihal Bamboo) on bunds/boundaries of farm land : A additional source to the farm income	Bamboo rhizomes 50 No. per demo @ Rs.100 per rhizome for 10 demos <b>Rs.50000.00</b>	Yield	-	Survival percent	%	No. of culm per Clump	No./tree
11	Efficient utilization of bettalands through silvipastoral system for sustainable land use	<i>Sesbania grandiflora</i> (100 Nos) <i>Calliandra calothyrsus</i> (100 Nos) <i>Erythrina indica</i> (100 Nos) <i>Leucaena leucocephala</i> (Subabul) (100 Nos) <i>Gliricidia sepium</i> (100 Nos) <i>Albizia lebbeck</i> (100 Nos) <i>Inga dulces</i> (100 Nos) <i>Stylozanthus hamata</i> (1kg) <i>Guinea grass</i> /Co-3 (500 root slips) <b>Rs.38750-00</b>	Yield	-	Survival percent	%	Fodder yield	q/ha
12	Nutritional Garden for Schools and	<b>Green Leafy Vegetables</b> (Fenugreek,	1.Quantity of vegetables	Kg/ha	Economics	-	Change in Knowledge after	-

	Farming Community	Amaranthus, Spinach, Shepu Coriander ), <b>Seedlings</b> (Tomato, Chilli , Brinjal ) <b>Seeds</b> (French beans, Okra) <b>Curry leaf</b> <b>Drumstick</b> <b>Papaya</b> <b>Neem oil</b> <b>Total Cost: Rs 16680.00</b>	procured per week				intervention	
13	EDP on value addition and marketing of Turmeric product	FSSAI licence Packing materials Labels printing charges <b>Total : 11,000.00</b>	Economics	-	Change in Skill after taining	-	-	-
13	EDP on value addition and marketing of Kokum product	FSSAI licence Packing materials Labels printing charges Pulverizer <b>Rs 56,000.00</b>	Economics	-	Change in Skill after taining	-	-	-
14	EDP - Up scaling the marketing of Garments	Multipurpose (embroidery and picoting) sewing machine <b>Rs. 25,000.00</b>	Economics	-	Change in Skill after taining	-	-	-

### 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
1	Demonstration of modified PG protocol in RB cows	Infertility	Bovines	Cows	1	12
2	Demonstration of CIDR synch in anoestrus animals	Infertility	Bovines	Cows and Buffaloes	1	10
3	Popularization of multicut sorghum and Stylo grasses	Feed and Fodder	Bovines	Cows and Buffaloes	-	06
4	Demonstration on feeding of enriched dry areca sheath for cows	Feed and Fodder	Bovines	Cows and Buffaloes	1	05
5	Demonstration of IFS Model for Tribal Communities	Integrated Farming System	Meat animals	Small ruminants, Poultry/Fish, Fodder Trees, Azolla	1	05

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
1	Demonstration of modified PG protocol in RB cows	6	2	4	-	Feeding of low quality fodder and lack of hormonal treatment	Supplementation of dewormer and Minerals, Followed by treatment with Pragma (PG) Receptal (GnRH) at different days of intervals	KVAFSU, Bidar
2	Demonstration of CIDR synch in anoestrus animals	5	1	4	-	Only Herbal Treatment	Supplementation of dewormer and Minerals, Followed by treatment with CIDR implant, Pragma (PG) Receptal (GnRH)	KVAFSU, Bidar
3	Popularization of multicut sorghum and Stylo grasses	05	01	-	-	Feeding of low quality fodder	Multi cut sorghum (CoFs-31), <i>Stylosanthus haemata</i>	NIANP, Bangalore
4	Demonstration on feeding of enriched dry areca sheath for cows	04	01	-	-	Feeding of chopped green and dry fodder	Feeding of chopped green, dry fodder and Urea molasses treated dried areca sheath	NIANP, Bangalore
5	Demonstration of IFS Model for Tribal Communities	0	03	0	02	Dairy	IFS	UAS Dharwad

SN	Title	Critical Inputs Provided & Total Amount (DBT)	Primary Parameter	Primary Parameter Unit	Secondary Parameter1	Secondary Parameter Unit1	Secondary Parameter 2	Secondary Parameter Unit2
1	2	17	18	19	20	21	22	23
1	Demonstration of modified PG protocol in RB cows	Bol. Fentas Plus-3g Minfa Gold – 1.2 kg (Mineral Mix.) Pragma (PG)- 4	No. of animals conceived	%	Duration of heat,	Hours	Heat intensity	High, Medium and low



		ml Receptal (GnRH)-5ml <b>Total Rs.13800/-</b>						
2	Demonstration of CIDR synch in anoestrus animals	Bol. Fentas Plus-3g Minfa Gold (Mineral Mix.) CIDR implant Pragma (PG) Receptal (GnRH) Blood sample analysis *Applicator (single) <b>Total Rs.20,000/-</b>	No. of animals showing heat	%	Duration of heat	Hours	No. of animals conceived	%
3	Popularization of multicut sorghum and Stylo grasses	Multi cut sorghum (CoFs-31), <i>Stylosanthus haemata</i> N:P:K (single) <b>Total Rs.10,500/-</b>	Fodder Yield	Ton/acre	Total milk yield	Liter/day	Fat and SNF	%
4	Demonstration on feeding of enriched dry areca sheath for cows	Urea Molasses/Jaggery Sprayer <b>Total Rs.4,900/-</b>	Palatability	Good/medium/low	Total milk yield	Liter/day	Fat and SNF	%
5	Demonstration of IFS Model for Tribal Communities	Animal Component - Goat (2) Fisheries – Fingerlings (Rohu or Common carps) Poultry - Broiler (10 Birds) Fodder Trees – Sesbania, Calliandra Azolla <b>Rs. Total : 75,000.00</b>	B:C	-	Body weight gain	Kg	Fodder Yield	Kg

### C. Trainings

SN	Training Category (OFT/F LD/Oth)	Training Type (Regular/ Vocational/ Sponsored/ Rural Youth/ Extension)	Training location (On/Off)	Training For	Duration (Days)	Title	Thematic Area
1	2	3	4	5	6	7	8
1	FLD: ICM in Paddy	Regular	Off	General	01	Identification of damage symptoms of insects and diseases of paddy and their management	Plant Protection

2	FLD: ICM in Paddy	Regular	Off	General	01	Non chemical measures for the management of paddy pests	Plant Protection
3	FLD: ICM in Paddy	Regular	Off	General	01	Importance of Seed treatment	Plant Protection
4	FLD: : ICM in Bt Cotton	Regular	Off	General	01	Identification of damage symptoms of Sucking insects of Bt cotton and their management	Plant Protection
5	FLD : ICM in Groundnut	Regular	Off	General	01	Identification of damage symptoms of insects and diseases of groundnut and their management	Plant Protection
6	FLD : ICM in Blackgram and Greengram	Regular	Off	General	01	Plant protection in pulses	Plant Protection
7	FLD : IPM in Cashew	Regular	Off	General	01	Plant protection measures during flowering in cashew	Plant Protection
8	FLD : IPM in Cashew	Regular	Off	General	01	Integrated management of CSRB	Plant Protection
9	Others	Regular	Off/On	General	01	Identification of damage symptoms and management of RSWF and RPW	Plant Protection
10	Others	Rural youths	On	Rural youth	01	Scientific knowledge reg. pesticide classification, different types of sprayers, types of nozzles	Plant Protection
11	Others	Vocational	On	Rural youth	01	Bee keeping- a subsidiary income for rural youths	Production technology
12	Others	Extension functionaries	On/Off	Extension functionaries	01	Pest surveillance and monitoring in Paddy	Plant Protection
13	Others	Extension functionaries	On	Extension functionaries	01	Awareness on new insect threats to plantation crops	Plant Protection
14	Others	Sponsored	On	General	01	IPM in Cashew	Plant Protection
15	FLD: ICM in Black pepper	Regular	On/Off	General	03	Management of major biotic stresses and nutrition in Black pepper	ICM

16	Others	Regular	On/Off	General	04	Nut drop and Nut split management in arecanut	Horticulture Production
17	FLD:Bunch care tech. to maximize yield in banana	Regular	On/Off	General	03	Cultural practices to maximize yield in banana	Horticulture Production
18	FLD: ICM in Jamine	Regular	Off	General	01	Integrated crop management in Jasmine	Horticulture Production
19	Others	Rural youths	On	Rural youths	01	Deficiency symptoms of macro and micro nutrients in Horticulture crops	Horticulture Production
20	Others	Rural youths	On	Rural youths	01	A new and legitimate method to ripening mangoes	PHT and value addition
21	Others	Extension functionaries	On	Extension functionaries	01	Management of soil acidity in major Horticultural crops	Horticulture
22	Others	Vocational	On	Rural youth and women	03	Asexual methods of propagation in major Horticulture crops	Horticulture
23	FLD	Regular	Off	School children	01 (03)	Importance of Nutritional Garden	Promotion of Nutritional Garden
24	FLD	Extension	On	Teachers	01(1)	Importance of Nutritional Garden	Promotion of Nutritional Garden
25	FLD	Regular	Off	SHG	01(03)	value addition and marketing of Kokum product	Post Harvest
26	FLD	Regular	Off	SHG	01(03)	Up scaling the marketing of Garments	Home Science
27	Other	Vocational	On	Rural youths	03	Entrepreneurship and Skill development Coco chocolate	Entrepreneurs hip Dvpt.
28	Other	Vocational	On	SHG	03	Income generating activities - Phenyl and liquid soap	Entrepreneurs hip Dvpt.
29	Other	Vocational	Off	SHG	03	Types of Tassels (crochet, kuchu) for saree, dress and dupatta	Entrepreneurs hip Dvpt.
30	Other	Vocational	Off	SHG	05	Preparation of Cloth Bag	Entrepreneurs hip Dvpt.
31	Other	Vocational	On	Rural youths	03	Preparation of Bakery Products	Entrepreneurs hip Dvpt.

32	FLD: Fodder enrichment	Regular	On	General	01	Methods of dry fodder Enrichment	Livestock production and management
33	FLD: Fodder	Regular	Off	General	01	Methods of dry fodder Enrichment	Livestock production and management
34	FLD: Green Fodder	Regular	Off	General	01	Popularization of different green fodder varieties	Livestock production and management
35	FLD: Infertility	Regular	on	General	01	Importance of herbal treatment for infertility problems in cows	Livestock production and management
36	Other	Regular	On	General	01	Diagnosis and Management of Sub-clinical Mastitis in cows.	Livestock production and management
37	Other	Regular	Off	General	01	Hydroponics: A source of green fodder for livestock	Livestock production and management
38	Others	Regular	Off/On	General	01	Clean Milk Production	Livestock production and management
39	Other	Rural Youths	On	General	03	Scientific rabbit/poultry farming	Livestock production and management
40	Other	Extension Functionaries	On	General	01	Recent advances in diagnosis of diseases in field condition	Livestock production and management
41	Other	Vocational	On	Rural Youths	03	Scientific Goat Farming	Livestock production and management
42	Other	Vocational	On	Para-Veterinarians /Inseminators	01	Artificial Insemination	
43	OFT: MPTs	Regular	Off	General	01	Identification of Important MPTs for Pepper standard	Agroforestry
44	FLD : NTFPs	Regular	off	General	01	Processing techniques in NTFPs of Uttara Kannada district	Agroforestry
45	FLD: Fodder trees	Regular	off	General	02	Demonstration on fodder yielding tree species	Agroforestry
46	Others	Regular	Off	General	01	Role of Mangrove trees for fish production	Agroforestry
47	FLD: NTFPs	Regular	Off	General	01	Domestication of	Agroforestry

						wild tropical fruit trees	
48	Others	Vocational	On	Rural youth	05	<b>Nursery techniques in <i>Melia dubia</i> and <i>Santalum album</i></b>	Production technology
49	Others	Extension functionaries	On/Off	Extension functionaries	01	Cultivation technologies of commercially important Bamboo species	Agroforestry
50	Others	Extension functionaries	On	Extension functionaries	01	Awareness on Agroforestry polices in Karnataka	Agroforestry

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	Insect and disease management	Y	-	-	-	26	15	12	08
2	Organic pest management	Y	-	-	-	12	04	04	02
3	Disease management	Y	-	-	-	10	05	05	04
4	Insect and disease management	Y				08	02	01	00
5	Insect and disease management	Y				24	15	08	07
6	Insect and disease management	Y				21	15	16	10
7	Insect and disease management	N				10	0	0	0
8	Insect and disease management	Y				10	0	0	0
9	Insect management	N				15	10	0	0
10	Spray equipments	Y				10	00	00	00
11	Subsidiary income	Y				20	00	05	00
12	Pest surveillance	Y				16	08	03	00
13	Insect management	N				16	08	03	00
14	Insect and disease management	N	DCCD, Kochi			20	15	10	05
15	Biotic stresses and nutrition management	N	-	-	-	45	15	10	05
16	Nut drop and Nut split management	Y	-	-	-	85	5	5	5
17	Cultural practices	Y	-	-	-	30	15	20	10
18	Pruning, nutrient, pest and disease management	Y	-	-	-	15	5	2	3
19	Diagnosis of nutrition deficiency	Y	-	-	-	5	3	2	-
20	Method to ripening mangoes	Y	-	-	-	10	3	10	2
21	Management of soil acidity	N	-	-	-	10	5	5	5
22	Asexual method of propagation	Y	-	-	-	10	5	3	2
23	Nutrition	Yes	-	-	-	40	20	05	02
24	Nutrition	Yes	-	-	-	05	15	04	04

25	Value addition	Yes	-	-	-	0	20	05	0
26	Women Empowerment	Yes	-	-	-	-	25	0	0
27	Hands on Skill dvpt.	Yes	-	-	-	05	18	-	02
28	Hands on Skill dvpt.	Yes	-	-	-	-	25	-	-
29	Hands on Skill dvpt.	Yes	-	-	-	-	20	-	05
30	Hands on Skill dvpt.	Yes	-	-	-	-	15	-	05
31	Hands on Skill dvpt.	Yes	-	-	-	05	15	-	05
32	Fodder Enrichment	Y	-	-	-	15	12	06	04
33	Fodder Enrichment	Y				12	10	04	03
34	Feed and Fodder	Y	-	-	-	13	04	04	02
35	Production Diseases	Y	-	-		15	05	03	02
36	Production Diseases	Y				16	06	04	03
37	Feed and Fodder	Y				20	10	06	04
38	Production	Y				20	15	06	03
39	Farming	Y				15	08	04	02
40	Disease Diagnosis	Y				16	04	06	01
41	Goat Farming	Y				12	04	04	0
42	Artificial Insemination	Y				15	02	06	0
43	MPTs	Y	-	-	-	26	15	12	08
44	NTFPs	Y	-	-	-	12	04	04	02
45	Fodder trees	Y	-	-		10	05	05	04
46	Mangroves	Y	KFD			08	02	01	00
47	FLD: NTFPs	Y				24	15	08	07
48	Nursery	Y				21	15	16	10
49	Bamboo	Y				10	0	0	0
50	Agroforestry policy	Y				10	0	0	0

#### D. Extension programme

SN	Extension programme	No. of Programme	No. of Farmers/ participants	No. of Extension Officers
1.	Advisory over Phone	165	145	32
2.	Bi-Monthly meeting	6	0	55
3.	Celebration of Day	13	450	55
4.	Diagnostic visit	120	90	11
5.	Exhibition	7	1200	65
6.	Exposure Visit	1	15	0
7.	Ex-trainees Sammelan	0	0	0
8.	Extension Literature	13	0	0
9.	Farmers Science conveners meeting	0	0	0
10.	Farmer /Extension personnel visit to KVK	110	105	22
11.	Farmers Seminar/ Workshop	1	50	10
12.	Field day	9	280	42
13.	Film Show	4	80	2
14.	Formation of SHGs	0	0	0
15.	Group Meeting	3	30	0
16.	Kisan Ghosti	0	0	0
17.	Kisan Mela	1	200	25
18.	Lecture delivered as resource person	63	2380	88
19.	Method demonstration	13	130	6
20.	News paper coverage	20	0	0
21.	No. of animals treated	40	40	5

SN	Extension programme	No. of Programme	No. of Farmers/ participants	No. of Extension Officers
22.	Popular arterials	24	0	0
23.	Radio talk	18	0	0
24.	Scientist visit to Farmers Field	134	171	17
25.	SHC campaign	1	50	10
26.	SHG meeting	0	0	0
27.	Technical Reports	10	0	0
28.	TV Talk	2	0	0
29.	Other- Specify	0	0	0
<b>Total</b>		<b>778</b>	<b>5416</b>	<b>445</b>

## 8. Activities proposed

### A. Mobile Advisory Services

Message Type	Crops	Livestock	Weather	Marketing	Awareness	Other enterprise	Total
Text	40	10	30	0	0	5	85
Voice	0	0	0	0	0	0	0
<b>Total</b>	<b>40</b>	<b>10</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>85</b>

**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)			
Production of Black pepper seedlings		10,000	1,50,000.00	60,000	90,000
Production of Cardamom seedlings		3000	45,000.00	15,000	30,000
Production of Arecanut seedlings		1000	15,000.00	5000	10,000
Production of Vanilla seedlings		1000	60,000.00	30,000	30,000
Production of MPTs seedlings		2000	50,000.00	15000.00	35000.00

**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)			
IBA	5	-	5000.00	1000	4000

**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)			
Milk	-	6000 ltrs	200000.00	150000.00	50000.00

**E. Livestock : NIL**

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)			
Paddy	25000	0	600000.00	500000.00	100000.00
Blackgram	500	0	35000.00	10000.00	25000.00
Arecanut	2500	0	110000.00	50000.00	60000.00
Coconut	-	-	14000.00	10000.00	4000.00
Sapota	-	-	6000.00	2000.00	4000.00
Cashew	150	-	15000.00	5000.00	10000.00



**G. Publication / Literature**

Item Name	Title	Author/s Name	No. of circulation
Folder	Mushroom Cultivation and Value addition	Shweta Biradar, Santhosha H M	300
Folder	Rejuvenating Wild Vegetables	Shweta Biradar, Venkatesh L	500
Folder	Nutrition Garden	Shweta Biradar	300
Folder	Dry Fodder enrichment	Santosh Shinde	500
Folder	Subclinical mastitis in cows	Santosh Shinde	500
Folder	Balanced feed formulation	Santosh Shinde	500
Folder	Hydroponics and its importance	Santosh Shinde	500
Folder	Local Fodder Resources for live stock	Santosh Shinde	500

**H. Electronic Media**

Media Type	Title	No. circulation	Developed by
DVD	Success story of 5 progressive farmers	-	Sr. Sci.& Head, PA(Computer), Sci(Entomology)

**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	1500	PA(Agroforestry) Sci(Agronomy, Hort)	200000.00	120000.00	80000.00
Water	1000	PA(Agroforestry) Sci(Agronomy, Hort)	50000.00	30000.00	20000.00
Plant	Nil				
Others	Nil				

*No. of SHC to be distributed: 1500*

**J. News letter**

Name	To be issue	No. of Soft copies to be issue	No. of hard copies to be issue
KVK News Letter	April-July	150	100
KVK News Letter	Aug-Oct	150	100
KVK News Letter	Nov-Jan	150	100
KVK News Letter	Feb-March	150	100

**K. Technology Week**

Proposed Date	No. of agencies to be linked	Qty. Seeds supply	Qty. Planting material supply	Qty. bio products supply
23-10-2018	03	-	-	-

**L. Proposed Projects**

Project Name	Role of KVK	Duration	Project Outlay (Rs)	Additional Man Power to be planned
Studies on wilting of mangrove plantations of Honnavar forest division	Identification of species, extent of damage by wood borers and development of suitable management measures	2 yrs	165000.00	01 (Skilled Helper)

**M. Farmer's Field School planned**

Thematic area	Title of the FFS	Budget proposed in Rs.	No. of farmers
Plant Protection	IPM in Paddy	30000.00	25

**N. E-linkage**

SN	Nature of activities	
1	Is KVK has website (Y/N)	Y
2	If NO, date of website to be develop & host	NA
3	Name of the module assigned during Orientation Programme	Laboratory, Activities of KVK
4	Plan, Progress and expected date of completion	Not yet initiated

**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	A	Kharif	4	Paddy	25000	50000.00	60000.00	10000.00
	A	Rabi/Summer	1	Blackgram	500	10000.00	35000.00	25000.00
2	B	Arecanut	0.8	Arecanut	2500	50000.00	110000.00	60000.00
3	C	Summer	1	Coconut,Sapota, Cashew	-	17000.00	35000.00	18000.00

**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 : Nil**

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
If Yes likely month of the meet	January 2019
Brief action plan in this regard	Exhibition Innovative Farmers Experience sharing Exposure Visit

## 10. Organic Farming

### A. Technology Assessment related to organic farming

SN	Title	Thematic Area	Crop Category	Crop Name	Variety 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.	Eco friendly management of sucking insects in blackpepper	Plant Protection	Horticulture crops	Blackpepper	Panniyur - 1	Rainfed	Sucking insects (Thrips, mealy bugs and scales)	20 vines per trial	05	Dimethoate 30 EC Neem soap Pongamia soap Neem oil <b>Rs. 1850.00</b>

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
	Eco friendly management of sucking insects in blackpepper	05	00	00	00		Spraying with Dimethoate 2 ml/l	UHS, Bagalkot

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
	Eco friendly management of sucking insects in blackpepper	Spraying with Neem soap @ 10g/l	IIHR, Bengaluru	Spraying with Pongamia soap @10 g/l	IIHR, Bengaluru	Spraying with Neem oil @ 0.3%	IISR, Calicut	-	-

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
	Eco friendly management of sucking insects in blackpepper	Yield and economics	q/ha	Sucking insects population	% infestation	Natural enemy population	no per m <sup>2</sup>

**B. Frontline Demonstrations related to organic farming : NIL**

**C. Trainings related to organic farming**

SN	Training Category (OFT/ FLD/Oth)	Training Type	Training location (On/Off)	Training For	Duration (Days)	Title	Thematic Area
1	2	3	4	5	6	7	8
1	FLD: ICM in Paddy	Regular	Off	General	01	Non chemical measures for the management of paddy pests	Plant Protection
2	FLD: ICM in Groundnut	Regular	Off	General	01	Organic plant protection measures in groundnut	Plant Protection
3.	OFT : Eco friendly management of sucking insects in blackpepper	Regular	Off	General	01	Management of sucking insects in black pepper through ecofriendly measures	Plant Protection
4	Others	Regular	Off	General	01	Importance of drainage management and use of biopesticides in arecanut rootgrub management	Plant Protection

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	Insect and disease management	N	-	-	-	12	05	05	00
2	Insect and disease management	N	-	-	-	28	12	08	05
3	Insect and disease management	N	-	-	-	05	00	02	00
4	Insect and disease management	Y	-	-	-	15	04	00	00

**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	150	130	20
2.	Bi-Monthly meeting	0	0	0
3.	Celebration of Day	0	0	0
4.	Diagnostic visit	25	50	10
5.	Exhibition	01	250	30
6.	Exposure Visit	0	0	0
7.	Ex-trainees Samelan	0	0	0
8.	Extension Literature	01	-	-
9.	Farmers Science conveners meeting	01	100	10
10.	Farmer /Extension personnel visit to KVK	75	68	7
11.	Farmers Seminar/ Workshop	02	100	15
12.	Field day	01	50	5
13.	Film Show	02	50	4
14.	Formation of SHGs	0	0	0
15.	Group Meeting	0	0	0
16.	Kisan Ghosti	0	0	0
17.	Kisan Mela	0	0	0
18.	Lecture delivered as resource person	25	700	50
19.	Method demonstration	10	100	10
20.	News paper coverage	02	-	-
21.	No. of animals treated	0	0	0
22.	Popular articals	02	-	-
23.	Radio talk	01	-	-
24.	Scientist visit to Farmers Field	35	40	10
25.	SHC campaign	0	0	0
26.	SHG meeting	0	0	0
27.	Technical Reports	0	0	0
28.	TV Talk	0	0	0
29.	Other- Specify	0	0	0
<b>Total</b>		<b>333</b>	<b>1638</b>	<b>171</b>

**E. Organic Certification is planned? If Yes Details : No**

**F. Any other activity related to Organic farming. Pl specify. : Nil**

**11. Swachh Barat Abiyan**

Activity	Month	Details	No. of Participants/ Farmers
Safe handling of pesticides	September	Demo on use of safety clothings/materials while handling pesticides Training on safe use of pesticides	45

## 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
9,62,660.02	7,61,005.00	9,71,423.00	11,73,078.02

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

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	8754000	8754000	7168756
2	<b>Traveling allowances</b>	200000	200000	97100
3	<b>Contingencies</b>			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	200000	200000	135739
B	POL, repair of vehicles, tractor and equipments	200000	200000	109110
C	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)	110000	110000	48415
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	55000	55000	30234
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	200000	200000	156538
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	30000	30000	12912
	Training of Extension Activities	110000	110000	26020
G	Training of extension functionaries	10000	10000	0
H	IFS	50000	50000	43420
I	FFS	30000	30000	0
J	EDP	25000	25000	4950
K	Display Boards	0	00	0
L	Maintenance of buildings	400000	400000	0
M	Establishment of Soil, Plant & Water Testing Laboratory	10000	10000	0
N	Library	2000	2000	2024
O	Farmers Conclave	25000	25000	0
<b>TOTAL (A)</b>		<b>10411000</b>	<b>10411000</b>	<b>7835218</b>
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>	0	0	0
2	<b>Equipments including SWTL &amp; Furniture</b>	0	0	0
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	0	0	0
4	<b>Library</b>	0	0	0
<b>TOTAL (B)</b>		<b>10411000</b>	<b>10411000</b>	<b>7835218</b>
<b>C. REVOLVING FUND</b>				
<b>GRAND TOTAL (A+B+C)</b>		<b>10411000</b>	<b>10411000</b>	<b>7835218</b>

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

<b>S. No.</b>	<b>Particulars</b>	<b>BE 2018-19 proposed</b>
<b>A. Recurring Contingencies</b>		
1	<b>Pay &amp; Allowances</b>	11872092
2	<b>Traveling allowances</b>	200000
3	<b>Contingencies</b>	
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	300000
<i>B</i>	POL, repair of vehicles, tractor and equipments	300000
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	150000
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	50000
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	537855.00
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	20000
	Training of Extension Activities	75000
<i>G</i>	Training of extension functionaries	25000
<i>H</i>	FFS	30000
<i>I</i>	Display Boards	25000
<i>J</i>	Maintenance of buildings	50000
<i>K</i>	Establishment of Soil, Plant & Water Testing Laboratory	15000
<i>L</i>	Library	5000
<b>TOTAL (A)</b>		<b>1,36,54,947.00</b>
<b>B. Non-Recurring Contingencies</b>		
1	<b>Works</b>	8000000
2	<b>Equipments including SWTL &amp; Furniture</b>	300000
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	0
4	<b>Library</b> (Purchase of assets like books & journals)	10000
<b>TOTAL (B)</b>		<b>8310000</b>
<b>C. REVOLVING FUND</b>		<b>0.00</b>
<b>GRAND TOTAL (A+B+C)</b>		<b>2,19,64,947.00</b>

## Activities Planned For FPO Under CHD Scheme, Dept. of Horticulture, Govt. of Karnataka

**Cluster : Banavasi**

**Team Members :**

**Dr. Manju M J, Sr. Scientist & Head,  
Dr. Santosh H M, Scientist (Horticulture),**

**Front Line Demonstrations :**

SN	Title	Thematic Area	Crop Category	Crop Name	Variety / Hybrid Name	Farmin g Situation	No. of demos	Area (ha)	Season	Previous Crop
1	2	3	4	5	6	7	8	9	10	11
1	Heart rot management in Pineapple	Plant Protection	Fruits	Pineapple	Queen	Irrigated	05	1	Kharif	Pineapple
2	Rhizome rot management in Ginger	Plant Protection	Spices	Ginger	Himachal	Irrigated	05	1	Kharif	Ginger
3	Bunch care technologies to maximize yield in banana	Crop production	Horticulture crops	Banana	Elakki Mitli	Irrigated	5	1	Kharif	Fallow

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	Heart rot management in Pineapple	05	0	0	0	Mancozeb spray	<ul style="list-style-type: none"> <li>• Soil application of Neem enriched Trichoderma viridae @ 20 g/hill</li> <li>• Sucker treatment with Metalaxyl MZ @ 0.3 %</li> <li>• Spray with Aliete @ 2 g/l</li> </ul>	UAS, Dharwad
2	Rhizome rot management in Ginger	03	02	0	0	Use of COC	<ul style="list-style-type: none"> <li>• Seed treatment for 20 min with K-cycline @ 0.5 g/l + COC @ 3 g/l followed by</li> <li>• air drying</li> <li>• Application of lime @ 1 q/ac</li> </ul>	UAS, Dharwad



							<p>(raised bed) and watering for 15 days</p> <ul style="list-style-type: none"> <li>• Application of FYM, Planting of rhizomes and mulching with paddy straw</li> <li>• 45 DAS drenching with bleaching powder @ 3 g/l + Metalaxyl MZ 1 g/l and repeating the process for 2-3 times</li> </ul>	
3	Bunch care technologies to maximize yield in banana	05	-	-	-	No care for bunches	<ul style="list-style-type: none"> <li>• Foliar spray through the Banana Special @ 5 g/l during 5<sup>th</sup> MAP, 4 sprays at monthly interval Denavelling – Removal of male bud after appearance of last hand in bunch. Propping to avoid damage to the crop due to heavy wind</li> <li>• Bagging of bunch with polypropelene covers after emergence of last hand</li> </ul>	IIHR, Bangalore

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	Heart rot management in Pineapple	<i>Trichoderma viridae</i> Metalaxyl MZ Aliete Neem cake <b>Total Rs: 10000</b>	Yield	q/ha	disease incidence	%	Economics	B:C
2	Rhizome rot management in Ginger	Streptocycline COC @ 3 g/l Bleaching powder 33% Metalaxyl Mz Lime <b>Total Rs: 10000</b>	Yield	q/ha	disease incidence	%	Economics	B:C
3	Bunch care technologies to maximize yield in banana	Banana special Polypropelene bunch cover <b>Rs. 10,000.00</b>	Yield and B:C ratio	t/ha	Finger length and girth	cm	Weight of Hands	Kg

**Field Visits: 08**

**Trainings: 03**

**Exposure Visit: 01 (out of state)**

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