

# ICAR- TARALABALU KRISHI VIGYAN KENDRA, DAVANAGERE

## ACTION PLAN OF KVK, DAVANAGERE FOR 2017-18

### 1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with Phone, Fax and e-mail	:	<b>ICAR- Krishi Vigyan Kendra</b> Kadalivana, LIC Colony Layout, BIET College Road, DAVANAGERE-577004, Karnataka Phone : 08192-263462, Fax : 08192-260969 E-Mail : <a href="mailto:dvgtkvk@yahoo.com">dvgtkvk@yahoo.com</a>
1.2	Name and address of host organization	:	Taralabalu Rural Development Foundation SIRIGRE-577541, Chitradurga District
1.3	Year of sanction	:	2004-05
1.4	Website address of KVK and date of last update	:	Website : taralabalukvk.com

### 2. Details of staff as on date

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay		
2.1	Senior Scientist-Cum-Head	Dr.Devaraja T N	Fishery	37400-67000 PB-4	10000	17-05-2005	Permanent
2.2	Subject Matter Specialist	Mr.Basavanagowda M G	Horticulture	15600-39100 PB-3	6600	21-11-2006	Permanent
2.3	Subject Matter Specialist	Mr.Mallikarjuna B O	Agronomy	15600-39100 PB-3	5400	09-01-2008	Permanent
2.4	Subject Matter Specialist	Dr.Jayadevappa G K	Animal Science	15600-39100 PB-3	5400	29-01-2008	Permanent
2.5	Subject Matter Specialist	Mr.Raghuraja J	Agri. Extn.	15600-39100 PB-3	5400	23-06-2008	Permanent
2.6	Subject Matter Specialist	Mr.Prasannakumar N	Plant Protection	15600-39100 PB-3	5400	24-06-2008	Permanent
2.7	Subject Matter Specialist	Mr.HM Sannagoudra	Soil Science	15600-39100 PB-3	5400	01-07-2013	Permanent
2.8	Programme Assistant	Mr.Revanasiddappa G B P	Lab.Technician	9300-34800 PB-2	4200	11-04-2012	Permanent
2.9	Computer Programmer	Mr.Santhosh B	Computer	9300-34800 PB-2	4200	05-09-2008	Permanent
2.10	Farm Manager	Mr.Vijayakumar S B	Farm Manager	9300-34800 PB-2	4200	23-06-2008	Permanent
2.11	Accountant/Superintendent	Mr.Mallikarjuna S Gudihindala	Administration	9300-34800 PB-2	4600	01-06-2005	Permanent
2.12	Stenographer	Smt Mamatha H Melmalagi	Administration	5200-20200 PB-1	2400	27-06-2005	Permanent
2.13	Driver 1	Mr.Marulasiddaiah NM	Jeep	5200-20200 PB-1	2000	01-06-2005	Permanent
2.14	Driver 2	Mr.Shivakumar S	Tractor	5200-20200 PB-1	2400	01-06-2005	Permanent
2.15	Supporting staff 1	Mr.Shivakumar B	Office Attendant	5200-20200 PB-1	1900	01-06-2005	Permanent
2.16	Supporting staff 2	Mr.Shivakumar S E	Farm Attendant	5200-20200 PB-1	1900	01-06-2005	Permanent

## 3. Details of SAC meeting conducted during 2016-17

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2017
1	2	3	4	5
3.1	28-12-2016	<p><b>Group-I : To be addressed at KVK level</b></p> <p>Promote apiculture as subsidiary Agriculture activity.</p> <p>Develop suitable marketing avenues for baby corn.</p> <p>Develop fertigation schedule for major horticulture crops.</p> <p>Cost of cultivation for major Horticulture and Agriculture crops to be prepared for finalization of term sheet.</p> <p>Promote marketing linkage for minor millets.</p> <p>Establish demonstration fish pond of 1000 sq feet at KVK.</p> <p>Attract rural youth towards agriculture through ARYA programme.</p> <p>Create awareness about afforestation</p> <p>Give suitable technology for late sown Kharif crops.</p> <p>Establish processing unit for millets at KVK</p> <p>More seed production of cereals and pulses in the KVK demonstration plots.</p> <p>Give more importance for seed production of Rashmi Blackgram and KKP-3 Green gram.</p> <p><b>Group-II : To be addressed through action plan of KVK for the year 2017-18</b></p> <p>Popularize foliar application of micronutrients in agriculture crops.</p> <p>Propose varieties for Abiotic stress tolerance</p> <p>Propose demonstrations of inter discipline subjects.</p> <p>Promote pepper as intercrop in Arecanut garden.</p> <p>Propose pulses as intercrops in Maize in future demonstration.</p> <p>Take up more demonstration on pulses and legumes.</p>	On going	22-12-2017

1	2	3	4	5
		<p><b>Group-III : To be addressed through convergence with line Departments in Davanagere district</b></p> <p>Utilize the resource of KVK in preparing the potential linked plan to be prepared by lead bank at district level.</p> <p>KVK Scientists should be used as resource persons in Agriculture Extension Programmes conducted by all the banks in the district.</p> <p>Promote stevia, a medicinal plant in all horticulture farms as well as KVK.</p> <p>Conduct an awareness programme on importance of medicinal plants at KVK in collaboration with department of horticulture.</p> <p>Capacity building of polyhouse growers in collaboration with horticulture department.</p> <p>By utilizing schemes in horticulture department, establish a tomato processing unit for one of FPO's in Davanagere district.</p> <p>Better and optimum utilization of AIR in dissemination of technologies.</p> <p>Submit the proceedings of SAC meeting to Government for further action.</p>	<b>On going</b>	

#### 4. Capacity Building of KVK Staff

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

S. No	New Areas of Training	Institution proposed to attend	Justification
4.1.1	Aquaponics	Rajeev Gandhi Institute of Coastal Aquaculture, Chennai	Emerging area of Aquaculture Integrated with Horticulture.
4.1.2	Bio agent production	National Bureau of Agriculturally important insect and pest, Bengaluru & UAS, Bengaluru.	To acquire knowledge about different production methods of bio agents.
4.1.3	Advanced level training in soil testing	Indian Agricultural Research Institute, New Delhi	To strengthen soil and water testing laboratory
4.1.4	National Consultation on promotion of Agri Entrepreneurship under Extension Reforms	MANAGE, Hyderabad	To study the different modes of developing rural youths in taking up entrepreneurship activities in the field of Agriculture
4.1.5	Entrepreneurship Development in Rural Areas	CAFT-Programmes in ICAR Institutes	To develop entrepreneurs in Rural Areas there by promoting secondary agriculture
4.1.6	Dryland Agriculture and Watershed Management	ICRISAT and CRIDA, Hyderabad	To acquire knowledge about different water harvesting structures and water calculation.

##### 4.2. Cross-learning across KVKs during 2017-18

S. No		Name of the KVK proposed	Specific learning areas
4.2.1	<b>Within ring</b>	Krishi Vigyan Kendra, Ramanagara	Animal science activities, Soil Science
		Krishi Vigyan Kendra, Kodagu	Documentation, Horticulture activities, Animal science activities
		Krishi Vigyan Kendra, Shimoga, Chitradurga	Protected cultivation of vegetables
4.2.2	<b>Within the zone</b>	Krishi Vigyan Kendra, Idukki, Tamil Nadu	Secondary Agriculture and Animal Science activities
		Krishi Vigyan Kendra, Erode, & Krishi Vigyan Kendra, Pondicherry	SHG activities, Precision farming
4.2.3	<b>Outside zone</b>	Krishi Vigyan Kendra, West Godavari	NICRA Activities

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

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	KVK Shivamogga	Fish seeds, Fodder slips	Seeds, Seedlings, Farm Machinery and secondary agriculture
5.2	KVK Tumkur	NICRA activities	Seeds / NICRA activities, NRM
5.3	KVK Chikkaballapura	Banana special, Animal science expertise	Pulses technologies, Soil Science activities

**6. Operational areas details proposed during 2017-18**

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.)*
1	2	3	4	5	6
6.1	Paddy	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Increased cost of production</li> <li>• No mechanization in transplanting</li> <li>• Weed management</li> </ul>	15,000 ha	<b>Banuvalli Cluster</b> Banuvalli	<ul style="list-style-type: none"> <li>• FFS</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method demonstration</li> </ul>
6.2	Maize+ Redgram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No intercropping of Redgram</li> <li>• Use of local variety of Redgram (50%)</li> <li>• No INM</li> <li>• Erratic rainfall.</li> </ul>	25,000 ha	<b>Hallikere/Bilichod Cluster</b> Hallikere Sattur Kanchikere Katenahalli  <b>Doddabbigere Cluster</b> Siddanamatha	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method Demonstration</li> </ul>

1	2	3	4	5	6
6.3	Finger millet (Ragi)	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Non- availability of HYV for late Kharif</li> <li>• No seed treatment with bio-fertilizers</li> <li>• Improper nutrient management</li> </ul>	6,000 ha	<b>Hallikere Cluster</b> Hallikere Sattur Kanchikere	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method Demonstration</li> </ul>
6.4	Foxtail millet (Navane)	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Non- availability of HYV</li> <li>• No seed treatment with bio-fertilizers</li> </ul>	500 ha	<b>Chigateri Cluster</b> Hunsehalli Sasvehalli	<ul style="list-style-type: none"> <li>• OFT</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method Demonstration</li> </ul>
6.5	Bengal gram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment with bio fertilizers</li> <li>• Non-availability of HYV</li> <li>• Improper nutrient management</li> <li>• Pod borer, Wilt</li> </ul>	8000 ha	<b>Chigateri Cluster</b> Myduru  <b>Rameshwara cluster</b> Rameshwara	<ul style="list-style-type: none"> <li>• FLD/OFT</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method demonstration</li> </ul>
6.6	Sunflower	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Improper nutrient management</li> <li>• Improper pest and disease management</li> </ul>	500 ha	<b>Chigateri Cluster</b> Myduru  <b>Rameshwara cluster</b> Rameshwara	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method demonstration</li> </ul>

1	2	3	4	5	6
6.7	Paddy	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment</li> <li>• Incidence of blast, stem borer, sheath blight and brown plant hopper</li> </ul>	25000	<b>Belludi Cluster</b> Bhanuvally Bannikodu	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Method Demonstration</li> <li>• Field day</li> </ul>
6.8	Redgram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment with biofertilizers</li> <li>• Use of local varieties</li> <li>• Incidence of pod borer &amp; wilt</li> </ul>	2500	<b>Parashurampura Cluster</b> Annapura	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Method Demonstration</li> <li>• Field day</li> </ul>
6.9	Cotton	<ul style="list-style-type: none"> <li>• Improper nutrient management</li> <li>• Square dropping</li> <li>• Leaf reddening</li> <li>• Improper spacing</li> <li>• Sucking pests and Pink boll worm</li> </ul>	6500 ha	<b>Bilchodu cluster:</b> Katenahalli	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Diagnostic</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.10	Tomato	<ul style="list-style-type: none"> <li>• Incidence of fruit borer, leaf minor, blight, powdery mildew and blight</li> </ul>	1750 ha	<b>Parashurampura &amp; Rameshwara Cluster</b> Annapura and Belagutti	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Diagnostic</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>

1	2	3	4	5	6
6.11	Sorghum	<ul style="list-style-type: none"> <li>• Imbalanced nutrient management</li> <li>• Soil moisture stress</li> <li>• Rust and Stem borer</li> </ul>	2000ha	<b>Rameshwara:</b> Nyamathi	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.12	Black gram	<ul style="list-style-type: none"> <li>• Improper Nutrient Management</li> <li>• Single crop per year in paddy growing areas</li> <li>• Mono cropping</li> <li>• Micronutrient deficiency</li> </ul>	300 ha	<b>Rameshwara:</b> Govinakovi	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.13	Wheat	<ul style="list-style-type: none"> <li>• Imbalanced nutrient management</li> <li>• Soil moisture stress</li> <li>• Rust and Stem borer</li> <li>• Use of local varieties susceptible for rust and lodging.</li> </ul>	300ha	<b>Rameshwara:</b> Nyamathi	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.14	French Bean	<ul style="list-style-type: none"> <li>• No income in early stage of arecanut</li> <li>• Poor soil health</li> </ul>	530 ha	<b>Parashuramapura:</b> Parashuramapura	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.15	Mango	<ul style="list-style-type: none"> <li>• Flower dropping</li> <li>• Low yield</li> <li>• Uneconomical trees</li> <li>• Age old orchards</li> </ul>	295 ha.	<b>Doddabbigere cluster</b> Doddaabbigere	<ul style="list-style-type: none"> <li>• EDP</li> <li>• Training</li> <li>• Field visit</li> <li>• Group meeting</li> </ul>



6.16	Arecanut	<ul style="list-style-type: none"> <li>• Hidimundige syndrome</li> <li>• Improper nutrient management</li> <li>• Button shedding and nut drop</li> <li>• No proper drainage</li> <li>• No intercrop</li> <li>• Excess application of tank silt</li> <li>• Higher incidence of bacterial leaf stripe</li> </ul>	10000 ha	<p><b>Rameshwara Cluster:</b> Rameshwara Arundi</p> <p><b>Parusharampura Cluster</b> Anaberu Mayakonda</p> <p><b>Doddabbigere cluster</b> Santhebennur Medikere</p>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.17	Coconut	<ul style="list-style-type: none"> <li>• Coconut Black Headed Caterpillar and Mites</li> <li>• Poor utilization of interspace</li> <li>• Dropping of immature nuts</li> </ul>	1763 ha	<p><b>Parusharampura Cluster</b> Anaberu Kandgal</p> <p><b>Bhanuvalli Cluster</b> Belludi Bhanuvalli</p>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Awareness campaign</li> <li>• Vocational training on palm climbing.</li> </ul>
6.18	Onion	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Improper nutrient management</li> </ul>	5340 ha	<p><b>Malligenahalli Cluster:</b> Belagutti Rameshwara</p> <p><b>Hallikere Cluster:</b> Hallikere</p> <p><b>Bilichod Cluster</b> Katenahalli</p>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• OFT</li> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field day</li> </ul>
6.19	Banana	<ul style="list-style-type: none"> <li>• Low yield</li> </ul>	425	<p><b>Parusharampura Cluster</b> Anaberu Kandgal</p>	<ul style="list-style-type: none"> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field visit</li> </ul>

1	2	3	4	5	6
6.20	Terrace gardening	Nutritional insecurity	3000 families	<b>Davanagere Urban</b>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.21	Rearing Crossbred Cattle and Buffaloes.	<ul style="list-style-type: none"> <li>• Infertility/Repeat breeding &amp; weakness in Crossbred cattle.</li> <li>• Clean and Quality milk production.</li> </ul>	>60,000 animals	<b>Belludi</b> Belludi,Bannikodu,Shamshipura & Banuvalli.	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.22	Use of Rice straw as a major source of energy for livestock & Cultivation of Napier x fodder varieties	<ul style="list-style-type: none"> <li>• Fodder scarcity, Low nutrients yield, Palatability is less at maturity stage leading to rejection of fodder, high content of Silica &amp; oxalic acid.</li> </ul>	>500 hactares	<b>Belludi</b> Belludi,Bannikodu,Shamshipura & Banuvalli.  <b>Halliere</b>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.23	Rearing of Small Ruminants like Sheep & Goats.	<ul style="list-style-type: none"> <li>• Lack of grazing lands, Lower body weight gain and parasitic infestation. Infectious diseases (foot rot) in small ruminants.</li> </ul>	>3,00,000 animals	<b>Belludi</b> Belludi,Bannikodu,Shamshipura & Banuvalli.	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.24	Rearing of local poultry birds.	<ul style="list-style-type: none"> <li>• Lower body gain &amp; Less numbers of eggs in Poultry birds</li> </ul>	>1,50,000 / birds	<b>Belludi</b> (Belludi,Bannikodu,Shamshipura & Banuvalli)	Training programme
6.25	Fisheries	<ul style="list-style-type: none"> <li>• Low yield and Income</li> </ul>	-	<b>Davanagere</b>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Field visit</li> <li>• Field day</li> </ul>
6.26	Pomegranate	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Incidence of pest and diseases</li> </ul>	100 ha	<b>Davanagere</b>	<ul style="list-style-type: none"> <li>• Workshop</li> </ul>
6.27	Betelvine	<ul style="list-style-type: none"> <li>• Incidence of wilt</li> </ul>	200 ha	<b>Belludi</b>	<ul style="list-style-type: none"> <li>• Seminar</li> </ul>

**7. Technology Assessment during 2017-18**

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
7.1	Foxtail millet	<ul style="list-style-type: none"> <li>• Low yield</li> <li><b>Causes:</b></li> <li>• No seed treatment with bio-fertilizers</li> <li>• Susceptible to stress condition</li> <li>• Susceptible to pest and diseases</li> </ul>	Assessment of foxtail millet varieties for higher yield under rainfed	<b>T1 : HMT-100-1</b> <ul style="list-style-type: none"> <li>➤ <b>HYV</b></li> <li>➤ Bio-fertilizers- <i>Azospirillum</i>, PSB and VAM @ 500g each</li> <li>➤ Spraying of WSF (KNO<sub>3</sub>)</li> </ul>	UAS, Dharwad
				<b>T2: SiA-2644 (Sri Laxmi)</b> <ul style="list-style-type: none"> <li>➤ <b>HYV</b></li> <li>➤ Bio-fertilizers- <i>Azospirillum</i>, PSB and VAM @ 500g each</li> <li>➤ Spraying of WSF (KNO<sub>3</sub>)</li> </ul>	UAS, Raichur UAHS, Shivamogga
				<b>T3 : DhFT-109-3</b> <ul style="list-style-type: none"> <li>➤ <b>seeds -3kg /trial</b></li> <li>➤ Bio-fertilizers- <i>Azospirillum</i>, PSB and VAM @ 500g each</li> <li>➤ Spraying of WSF (KNO<sub>3</sub>)</li> </ul>	UAS, Dharwad

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
T <sub>1</sub> : HMT-100-1 ➤ seeds ➤ Bio-fertilizers- <i>Azospirillum</i> , PSB and VAM 500g each ➤ KNO <sub>3</sub>	3.0kg	150-00	03	1,350-00	<ul style="list-style-type: none"> <li>• Germination %</li> <li>• Plant height (cm)</li> <li>• Panicle length (cm)</li> <li>• Yield q/ha</li> </ul>	SMS (Agronomy, Plant Protection, Soil Science.) & SS&H
	1.5 kg	150-00				
	1.0kg	150-00				
T2: SiA-2644 ➤ seeds ➤ Bio-fertilizers- <i>Azospirillum</i> , PSB and VAM @ 500g each ➤ KNO <sub>3</sub>	3.0kg	150-00	03	1,350-00		
	1.5 kg	150-00				
	1kg	150-00				
T3 : DHFt-109-3 ➤ seeds ➤ Bio-fertilizers- <i>Azospirillum</i> , PSB and VAM @ 500g each ➤ KNO <sub>3</sub>	3.0kg	150-00	03	1,350-00		
	1.5 kg	150-00				
	1.0kg	150-00				
		<b>1,250-00</b>		<b>4,050-00</b>		

**No. of Farmers: 3, No. of Trials -3, Area: 1.8 ha**

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
7.2	Bengal Gram	<ul style="list-style-type: none"> <li>Low yield</li> </ul> <b>Causes:</b> <ul style="list-style-type: none"> <li>No seed treatment with bio-fertilizers</li> <li>Wilt</li> </ul>	Assessment of Bengalgram varieties for higher yield.	T <sub>1</sub> : JG – 11 variety (Breakdown of wilt – 20%) -	UAS(D)
				T <sub>2</sub> : JAKI – 9218 variety (Resistant to wilt & drought),	JNKVV & ICRISAT, 2009
				T <sub>3</sub> : GBM-2 variety (Resistant to wilt & drought),	UAS ( R )
				T <sub>4</sub> : NBeG-3 (ANGRAU)	UAS (R)

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
T <sub>1</sub> JG – 11 <ul style="list-style-type: none"> <li>Rhizobium and PSB</li> <li>Trichoderma</li> <li>Traps and Lure</li> <li>Pulse magic</li> </ul>	1.0 kg 0.25 kg 3 No. 1 kg	100-00 50-00 200-00 250-00	03	1,800-00	<ul style="list-style-type: none"> <li>No. of pod/plant</li> <li>100 seeds weight (Test weight)</li> <li>% wilt incidence</li> <li>Yield q/ha</li> </ul>	SMS (Agronomy, Plant Protection, Soil Science,) and SS&H
T <sub>2</sub> : JAKI – 9218 <ul style="list-style-type: none"> <li>Seeds</li> <li>Rhizobium and PSB</li> <li>Trichoderma</li> <li>Traps and Lures</li> <li>Pulse magic</li> </ul>	13.0 kg 1.0 kg 0.25 kg 3 No. 1 kg	910-00 100-00 50-00 200-00 250-00	03	4,530-00		
T <sub>3</sub> : GBM-2 <ul style="list-style-type: none"> <li>Seeds</li> <li>Rhizobium and PSB</li> <li>Trichoderma</li> <li>Traps and Lure</li> <li>Pulse Magic</li> </ul>	13.0 kg 1.0 kg 0.25 kg 3 No. 1 kg	910-00 100-00 50-00 200-00 250-00	03	4,530-00		
T <sub>4</sub> : NBeG (ANGRAU) <ul style="list-style-type: none"> <li>Seeds</li> <li>Rhizobium and PSB</li> <li>Trichoderma</li> <li>Traps and Lure</li> <li>Pulse Magic</li> </ul>	13.0 kg 1.0 kg 0.25 kg 3 No. 1 kg	910-00 100-00 50-00 200-00 250-00	03	4,530-00		
<b>Total</b>		<b>4,530-00</b>		<b>15,390-00</b>		

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
7.3	Onion	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Imbalanced nutrient management</li> <li>• Small bulb</li> <li>• Less pungency</li> </ul>	Role of sulphur in improving the productivity of onion	T <sub>1</sub> –Application of 100:75:20 kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha along with FYM + remaining ICM practices.	Farmers practices
				T <sub>2</sub> – RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha) along with FYM + remaining ICM practices.	UAS (B)
				T <sub>3</sub> - RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha) along with FYM and 45kg sulphur through elemental sulphur (Bentonite) + remaining ICM practices.	DOGR, Pune

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
T <sub>1</sub> : <i>Azospirillum</i> PSB Yellow sticky trap	0.5 kg 0.5 kg 8 no.	50-00 50-00 320-00	5	2,100-00	<ul style="list-style-type: none"> <li>• Plant Height</li> <li>• Bulb diameter (cm)</li> <li>• Weight of bulb (g)</li> <li>• Yield (q/ha)</li> </ul>	SMS (Soil Science, Horticulture)
T <sub>2</sub> : <i>Azospirillum</i> PSB Yellow sticky trap	0.5 kg 0.5 kg 8 no.	50-00 50-00 320-00	5	2,100-00		
T <sub>3</sub> : <i>Azospirillum</i> PSB Elemental sulphur Yellow sticky trap	0.5 kg 0.5 kg 10 kg 8 no.	50-00 50-00 550-00 320-00	5	4,850-00		
<b>Total</b>		<b>1,810-00</b>		<b>9,050-00</b>		

No. of farmers-05, No. of trial – 05, Area- 3 ha.

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
7.4	Onion	Non availability of suitable varieties for Rabi season <b>Causes:</b> • Use of local varieties • Bulb to seed season	Assessment of Onion Varieties for Rabi Season	1. Nyamathi Local	FP
				2. Arka Nikethan	IIHR, Bengaluru
				3. Bhima Shakthi	DOGR, Pune
				4. NHRDF Red (Line-28)	NHRDF, Nasik

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
					Plant height (cm)	SMS(Horticulture)
Arka Nikethan	0.5 kg	1,500-00	4	6000-00	Bulb diameter (cm)	SMS(Soil Science)
Bhima Shakthi	0.5 kg	1,500-00	4	6000-00	Bulb Yield (t/ha)	SMS(Plant protection)
NHRDF Red (Line-28)	0.5 kg	1,500-00	4	6000-00	No. of protective irrigations	SSH
<b>Total</b>		<b>4,500-00</b>		<b>18,000-00</b>		

## 8. Technology Refinement during 2017-18 - Nil

## 9. Frontline Demonstrations during 2017-18

## 9.1 Cereal:

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Cereals	Maize+Red gram	<ul style="list-style-type: none"> <li>Low yield</li> <li><b>Causes:</b></li> <li>Use of local varieties (Redgram)</li> <li>No seed treatment with biofertilizers</li> <li>Non availability of wilt tolerant variety.</li> </ul>	<b>Integrated Crop Management in Maize + Redgram</b> <ul style="list-style-type: none"> <li>Management (Spray with Chlorpyrifos @ 2ml/l (Stem Borer) and Mancozeb-2.5g/l (Downey mildew) for Maize</li> <li>Medium duration, wilt tolerant and red seeds BRG-5 variety.</li> <li>Seed treatment with bio fertilizers <i>Azospirillum</i>, PSB, VAM @ 3 kg</li> <li>Spray with Pulse magic (UAS, Raichur) 10g/l @ 5kg/ha</li> <li>Installation of Pheromone traps @ 8no. / ha (16 lures)</li> <li>Spray with Profenofos @ 2ml/l- Ovicidal- 1 l/ha</li> <li>Spray with Neem based insecticide @3ml/l – 1 l/ha</li> <li>Spray with Indaxicarb @0.5ml/l -200 ml / ha</li> </ul>	Variety	BRG-5 (Redgram)	UAHS, Shivamogga

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
Redgram seeds BRG-5	3kg	300-00	30	9,000-00	<ul style="list-style-type: none"> <li>Plant height (cm) (Maize+Redgram)</li> <li>No of rows/cob (Maize)</li> <li>No. of pods/plant (Redgram)</li> <li>Incidence of pod borer &amp; wilt (Redgram)</li> <li>% incidence of Downey mildew (Maize)</li> <li>Yield (q/ha)(Maize + Redgram)</li> </ul>	SMS (Agronomy, PP) SS &H
<i>Rhizobium</i> and PSB	1kg	100-00		3,000-00		
Pulse Magic	1kg	250-00		7,500-00		
Pheromone traps and lures	3 No. and 6 No.	100-00		3,000-00		
Chlorpyrifos	500 ml	300-00		9,000-00		
Profenofos	500 ml	250-00		7,500-00		
		<b>1,300-00</b>				

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2	Cereals	Rice	<ul style="list-style-type: none"> <li>Low Yield</li> </ul> <p><b>Causes:</b></p> <ul style="list-style-type: none"> <li>Incidence of pest and diseases</li> </ul>	<p><b>Integrated pest and disease management in paddy</b></p> <ul style="list-style-type: none"> <li>Soil test based nutrient application</li> <li>Seed treatment with Carbendizim @ 4g/kg of seed</li> <li>Spraying with neem oil @ 3ml/l in nursery</li> <li>Clipping of seedlings during transplanting</li> <li>Leaving one row of gap for every 3-4 m of transplanting.</li> <li>Removal of weeds around bunds</li> <li>Soil application of <i>Pseudomonas fluorescence</i> @5kg/ha at 30 DAT</li> <li>Installation of funnel traps @10/ha</li> <li>Drain out excess water immediately after notice of pests.</li> <li>Mix 500 ml of DDVP with 5 kg sand and apply</li> <li>Next day spray with Acephate @ 1 g and Chlorpyrifos @ 2.5 ml/l</li> <li>Need based spray with Tricyclazole, Hexaconazole and Buprofezin</li> </ul>	Variety	JGL1798	UAS, Bengaluru

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
Carbendazim <i>Pseudomonas fluorescence</i> Funnel traps+ Scirfo lures	0.1 kg 2.0 kg 4 nos. + 8 nos.	50-00 200-00 300-00	25	13,750-00	<ul style="list-style-type: none"> <li>Soil test before and after</li> <li>% incidence of blast, sheath blight .</li> <li>% incidence of BPH &amp; stem borer incidence</li> <li>Yield (q/ha)</li> </ul>	SMS (Plant Protection, Agronomy, Agricultural Extension, Soil Science) & SS&H
		<b>550-00</b>		<b>13,750-00</b>		



S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
3	Cereal	Wheat	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• <b>Causes:</b></li> <li>• Imbalanced nutrient management</li> <li>• Soil moisture stress</li> <li>• Rust</li> <li>• Stem borer</li> <li>• Use of local varieties</li> </ul>	<p><b>Integrated crop management in wheat (UAS-347).</b></p> <ul style="list-style-type: none"> <li>• Introduction of variety UAS-347</li> <li>• Seed treatment with <i>Azotobactor</i>, PSB @ 500g/ha</li> <li>• Spraying of 19:19:19 @ 5g/l and micronutrient solution @ 3-4 ml/l at 30DAS</li> <li>• Spraying of Chlorpyrifos 20EC- @ 2ml/l to manage stem borer</li> <li>• Spraying of Hexaconazole @ 1ml/l to manage rust</li> <li>• Weed and water management</li> </ul>	Variety	<b>UAS-347</b>	UAS, Dharwad

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
UAS-347	25 kg	1,000-00	20	20,000-00	<ul style="list-style-type: none"> <li>• No of fertilizers/hill</li> <li>• Test weight (g/1000 seeds)</li> <li>• Yield q/ha</li> <li>• Plant height</li> </ul>	SMS (Soil Science, Agronomy, Plant Protection,)
Biofertilizers	3 kg	300-00		6,000-00		
19:19:19 (Water soluble)	2 kg	300-00		6,000-00		
Micronutrient solution	500ml	300-00		6,000-00		
<b>Total</b>		<b>1,900-00</b>		<b>38,000-00</b>		

## 9.2 Millets:

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Millets	Finger Millet	<ul style="list-style-type: none"> <li>• Low yield</li> </ul> <b>Causes:</b> <ul style="list-style-type: none"> <li>• Use of local variety.</li> <li>• No seed treatment</li> <li>• Improper nutrient management</li> </ul>	<b>Integrated Crop Management in Finger Millet (ML-365)</b> <ul style="list-style-type: none"> <li>• Variety ML-365 (105-110 days).</li> <li>• Soil test based nutrient application</li> <li>• Seed treatment with bio fertilizers <i>Azosprillum</i>, PSB, VAM @ 3 kg/ha</li> <li>• Spraying of Micronutrient – (3-4 ml/l) ZnSO<sub>4</sub></li> <li>• Use of water soluble fertilizers (tillering stage) 13:00:45 (5g /l)</li> </ul>	Variety	ML-365	UAS, Bengaluru

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
Seed	5.0 kg	300-00	30	9,000-00	<ul style="list-style-type: none"> <li>• Plant height (cm)</li> <li>• No. tillers / hill</li> <li>• No. of fingers / ear</li> <li>• Test weight(g)</li> <li>• Yield (q/ha)</li> <li>• Fodder yield (t/ha)</li> </ul>	SMS (Agronomy, Plant Protection, Soil Science and Animal Science) SS &H
Bio-fertilizers: <i>Azosprillum</i> , PSB	1.0 kg	100-00		3,000-00		
Micronutrient (ZnSO <sub>4</sub> and Ferrous Sulphate)	0.5 l	250-00		7,500-00		
KNO <sub>3</sub> (13:00:45)	1 kg	150-00		4,500-00		
		<b>800-00</b>		<b>24,000-00</b>		

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2	Millets	Sorghum	<ul style="list-style-type: none"> <li>• Low yield</li> <li><b>Causes:</b></li> <li>• Imbalanced nutrient management</li> <li>• Rust</li> <li>• Stem borer</li> <li>• Use of local variety</li> </ul>	<p><b>Integrated crop management in sorghum (SPV-2217).</b></p> <ul style="list-style-type: none"> <li>• Variety SPV-2217</li> <li>• Seed treatment with calcium chloride to induce drought tolerance (overnight soaking)</li> <li>• Seed treatment with <i>Azotobactor</i>, PSB @ 500g/ha</li> <li>• Spraying of 19:19:19 @ 5g/l and micronutrient solution @ 3-4 ml/l at 30 DAS</li> <li>• Spraying of Chlorpyrifos 20EC- @ 2ml/l to manage stem borer</li> <li>• Spraying of Hexaconazole @ 1ml/l to manage rust</li> <li>• Weed and water management</li> </ul>	Variety	SPV-2217	UAS, Dharwad

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
Seeds SPV-2217	3 kg	150-00	25	3,750-00	<ul style="list-style-type: none"> <li>• Plant Height.</li> <li>• Size of the head (cm)</li> <li>• Test weight (g)</li> <li>• Yield (q/ha)</li> </ul>	SMS (Soil Science, Plant Protection, Agronomy and Agricultural Extension)
Calcium chloride	100g	200-00		5,000-00		
Biofertilizers	3 kg	300-00		7,500-00		
19:19:19 (Water soluble)	2 kg	300-00		7,500-00		
Micronutrient solution	500ml	300-00		7,500-00		
		<b>1,250-00</b>		<b>31,250-00</b>		

9.3 Oilseeds: Nil

9.4 Pulses: Nil

9.5 Commercial Crops:

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Commercial Crops	Cotton	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Incidence of sucking pest and pink boll worm</li> <li>• Leaf reddening</li> <li>• Improper spacing</li> <li>• Square dropping</li> </ul>	<p><b>Integrated crop management in cotton</b></p> <ul style="list-style-type: none"> <li>• Maintaining proper spacing (4 x 4 feet)</li> <li>• Use of early maturing varieties and crop rotation</li> <li>• Trap crop Bhendi/Marigold (25:1)</li> <li>• Yellow sticky traps</li> <li>• Spraying Acetamaprid 20 SP @ 0.2 g/l against sucking pests</li> <li>• Spraying of Planofix @ 1ml/4.5 l of water</li> <li>• Use of Pheromone traps @ 25/ha for mass trapping</li> <li>• Spraying of MgSO<sub>4</sub> 1% @ 75 &amp; 90 DAS</li> <li>• Spraying of KNO<sub>3</sub> @ 1% at 90 &amp; 110 DAS</li> <li>• Spray with Profenophos + Cypermethrin @ 1ml/l</li> </ul>	Hybrid	Bt	UAS Bengaluru

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
Yellow sticky trap	10 noo.	250-00	25	38,750-00	<ul style="list-style-type: none"> <li>• Incidence of sucking pests</li> <li>• Incidence of pink boll worm</li> <li>• Yield (q/ha)</li> </ul>	SMS (Plant Protection, Agronomy, Agricultural Extension, Soil Science) & SSH
MgSO <sub>4</sub>	2 kg	200-00				
KNO <sub>3</sub>	2 kg	300-00				
Pheromone trap	10 nos	500-00				
		<b>1,250-00</b>		<b>38,750-00</b>		

## 9.6 Horticultural Crops:

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Horticulture	Tomato	<ul style="list-style-type: none"> <li>• Low yield</li> </ul> <b>Causes:</b> <ul style="list-style-type: none"> <li>• Incidence of fruit borer and leaf minor</li> <li>• Incidence of powdery mildew, blight and TLCV</li> </ul>	<b>Integrated Crop Management in tomato</b> <ul style="list-style-type: none"> <li>• Use of Marigold as a trap crop (16:1)</li> <li>• Application of <i>Trichoderma harzianum</i> @ 5kg /ha through FYM</li> <li>• Application of Neem cake @ 250kg /ha after 20-25 DAT</li> <li>• Use of yellow and blue sticky traps @ 25/ha</li> <li>• Use of Pheromone traps @ 10/ha</li> <li>• Need based plant protection measures</li> <li>• Spray with Hexaconozol @1ml/l (Powdery mildew), Imidacloprid @ 0.4 ml/l (Leaf minor) and Dimethomorph @ 1g/l (Blight)</li> </ul>	Hybrid	Private hybrid	IIHR(Bangalore)

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
<i>Trichoderma harziannum</i>	2kg	250-00	15	38,250-00	<ul style="list-style-type: none"> <li>• % Incidence of fruit borer, blight , leaf curl and powdery mildew</li> <li>• No. of fruits/plant</li> <li>• Yield (q/ha)</li> </ul>	SMS (Plant Protection, Horticulture, Agricultural Extension, Soil Science) & SSH
Yellow sticky and blue sticky traps	20nos.	800-00				
Pheromone traps & lures	04 &08	300-00				
Arka Samrat	40 g	1200-00				
		<b>2550-00</b>		<b>38,250-00</b>		

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2	Horticulture	Onion	<ul style="list-style-type: none"> <li>• Low yield</li> </ul> <p><b>Causes:</b></p> <ul style="list-style-type: none"> <li>• Non availability of suitable varieties</li> <li>• Decrease in marketable yield</li> <li>• Incidence of purple blotch and thrips</li> </ul>	<p><b>Demonstration of yield &amp; income potential of Onion, Bhima Super</b></p> <ul style="list-style-type: none"> <li>• Introduction of Bhima Super variety</li> <li>• Application of gypsum @ 2.5 q/ha</li> <li>• Seed treatment with <i>Trichoderma harziannum</i></li> <li>• Use of post emergent herbicides</li> <li>• Foliar nutrition with water soluble fertilizers</li> <li>• Plant 2 rows of maize or outer row of maize surrounding onion crop (250sq.m) at least 30 days prior to transplanting to block adult thrips</li> </ul>	Variety	Bhima Super	AICRP on onion and Garlic, RC, Babbur

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
Bhima Super seeds	2 kg	4,000-00	05	20,000-00	<ul style="list-style-type: none"> <li>• Yield (t/ha)</li> <li>• Seed germination (%)</li> <li>• Weight of bulb (g)</li> <li>• Economics</li> </ul>	SMS (Horticulture, Soil Science) & SSH
		<b>4,000-00</b>		<b>20,000-00</b>		

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
3	Horticulture	French bean	<ul style="list-style-type: none"> <li>No income in early stage of arecanut</li> <li>Poor soil health</li> </ul> <p><b>Causes:</b></p> <ul style="list-style-type: none"> <li>Low organic carbon in soil</li> <li>Poor soil aeration</li> <li>Improper nutrient management</li> <li>Non utilization of interspace</li> </ul>	<p><b>Income generation through french bean in young arecanut garden</b></p> <ul style="list-style-type: none"> <li>Introduction of variety arka sharath</li> <li>Seed treatment with <i>Rhizobium</i>, PSB and VAM @ 200g/acre</li> <li>Spraying pulse magic</li> <li>Spraying of Imidachloprid 17 SL- @ 0.5ml/l to manage sucking pest</li> <li>Spraying of Hexaconazole @ 1ml/l to manage powdery mildew</li> <li>Weed and water management</li> </ul>	Variety	Arka sharath	IIHR, Bengaluru

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
Seeds Arka sharath	5 kg	1,750-00	10	20,200-00	<ul style="list-style-type: none"> <li>Organic carbon content in soil</li> <li>No. pods per plant</li> <li>Yield (q/ha)</li> </ul>	SMS (Soil Science, Horticulture, PP)
Biofertilizers	1.5 kg	320-00				
Micronutrient Solution	250 ml	150-00				
<b>Total</b>		<b>2,020-00</b>		<b>20,200-00</b>		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
4	Horticulture	Coconut	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• <b>Causes:</b></li> <li>• Low productivity of existing palms</li> <li>• Nut dropping</li> <li>• Incidence of mites and CBHC</li> <li>• Poor quality nut</li> <li>• No green manuring</li> </ul>	<ul style="list-style-type: none"> <li>• ICM in Coconut <ul style="list-style-type: none"> <li>▶ Based on soil test result recommended dose of fertilizers (170:120:400 g N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O/plant/year-Kharif and 330:200:800 g N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O/plant/year-Rabi )</li> <li>▶ Use of <i>Trichoderma harzianum</i> @ 50 g /palm</li> <li>▶ Borax application based on soil test result (50 g/palm)</li> <li>▶ Soil fertility enrichment of soil with cover crop Sunhemp @ 40 kg / ha</li> <li>▶ MgSO<sub>4</sub> @ 500 g/palm</li> <li>▶ Release of <i>Goniozus nephantidis</i> @ 12 / palm</li> <li>▶ Application of Neem cake @ 5 kg/ palm</li> <li>▶ Root feeding with Econeem plus @ 10 ml / palm</li> </ul> </li> </ul>	Variety	Arsikere tall	UHS, Bagalkot

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
Borax	2 kg	200-00	20	4,000-00	<ul style="list-style-type: none"> <li>• Nuts/palm</li> <li>• Mites(%)</li> <li>• CBHC (%)</li> <li>• Economics</li> </ul>	SMS (Horticulture, Soil Science) & SSH
<i>Trichoderma</i>	2kg	240-00		4,800-00		
Sunhemp	15 kg	600-00		12,000-00		
Econeem Plus	500 ml	250-00		5,000-00		
		<b>1,290-00</b>		<b>25,800-00</b>		



S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
5	Horticulture	Arecanut	<ul style="list-style-type: none"> <li>• Low yield</li> </ul> <b>Causes:</b> <ul style="list-style-type: none"> <li>• Nut dropping</li> <li>• Hidimundige Syndrome</li> <li>• No green manuring</li> <li>• Button shedding</li> </ul>	<ul style="list-style-type: none"> <li>• ICM in Arecanut                             <ul style="list-style-type: none"> <li>▶ Based on soil test result recommended dose of fertilizers (100:40:140 g N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O /plant/year)</li> <li>▶ Use of <i>Trichoderma harzianum</i></li> <li>▶ Borax application based on soil test result (20 g/affected plant)</li> <li>▶ Soil fertility enrichment with Sunhemp</li> <li>▶ Spraying with dimethoate (2 ml/l) and Copper Oxychloride (3 g/l)</li> </ul> </li> </ul>	Variety	Channagiri Local	UHS, Bagalkot

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
Borax	0.4 kg	60-00	20	1,200-00	<ul style="list-style-type: none"> <li>• Yield (t/ha)</li> <li>• No. of Inflorescence/palm</li> <li>• Button shedding(%)</li> <li>• Economics</li> </ul>	SMS (Horticulture, Soil Science, Plant protection) & SSH
<i>Trichoderma</i>	5 kg	600-00		12,000-00		
Sunhemp	15 kg	600-00		12,000-00		
Copper oxy chloride	500 g	450-00		9,000-00		
		<b>1,710-00</b>		<b>34,200-00</b>		

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
6	Horticulture	Terrace Gardening	<ul style="list-style-type: none"> <li>• Nutritional Insecurity</li> <li><b>Causes:</b></li> <li>• High cost of vegetables</li> <li>• Malnourishment in Children</li> <li>• Non availability of land in Urban area</li> <li>• Scarcity of water</li> <li>• Nutritional deficiency</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstration of Terrace garden in Davanagere city</li> <li>➤ Seeds of 4 different varieties</li> <li>➤ Seedlings of three other vegetables</li> <li>➤ Seeds of 5 different leafy vegetables</li> <li>➤ Plastic pots</li> <li>➤ Petty trays</li> <li>➤ Garden implement</li> </ul>	-	-	UAS Bangalore

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
Seeds of 4 different varieties	100 g each	350-00	10	15,500-00	<ul style="list-style-type: none"> <li>• Amount saved on vegetables</li> <li>• Quantity of fresh vegetable availability</li> <li>• Amount spent on medicine</li> </ul>	SMS (Horticulture, Plant protection) & SSH
Seedlings of three other vegetables	5seedlings each	100-00				
Seeds of 5 different leafy vegetables	100g each	100-00				
Garden implement	One set	1,000-00				
		<b>1,550-00</b>		<b>15,500-00</b>		

## 9.7 Livestock:

## Integrated Management of Dairy Animals:

S. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Livestock	Dairy	<ul style="list-style-type: none"> <li>• Infertility/Repeat breeding/ Low milk production</li> </ul> <p><b>Causes:</b></p> <ul style="list-style-type: none"> <li>• Lack of micro nutrients and vitamins to feeding.</li> <li>• Poor availability of micronutrients from the feed.</li> <li>• Uterine infections like endometritis and mitritis.</li> </ul>	<p>Integrated management in dairy animals</p> <ul style="list-style-type: none"> <li>• Feeding dairy animals based on NRC standards.</li> <li>• Feeding methodologies (TMR concept)</li> </ul>	Crossbred dairy animals	-	KVAFSU (Bidar)

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
<ul style="list-style-type: none"> <li>• Dewormer</li> <li>• Area Specific Mineral Mixture</li> <li>• Uterine tonic</li> <li>• Vitamin Tonic</li> </ul>	3g x 2 5 g x1 500 ml x1 5 l x1	120-00 650-00 350-00 500-00	15	24,300-00	<ul style="list-style-type: none"> <li>• Lactation yield (l)</li> <li>• Heat symptoms and conception rate (%)</li> <li>• Incidence of mastitis (%)</li> </ul>	SMS(ASc), SMS(AE) and SS&H
		<b>1,620-00</b>		<b>24,300-00</b>		

Sl. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2	Livestock	Sheep and goats	<ul style="list-style-type: none"> <li>Lower bodyweight gain in semi-free range / free range (nomadic) conditions.</li> </ul> <p><b>Causes:</b></p> <ul style="list-style-type: none"> <li>Incidences of diseases are more ( Varied Agro climatic conditions)</li> <li>Lack of land for growing food grains for humans</li> <li>Lack of essential nutrients in the feeding stuffs available.</li> </ul>	Total deworming and balanced nutrition in small ruminants for better performance.	Belly local x	-	KVAFSU (Bidar)

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
Dewormer	150 mg x 20 nos	100-00	15	1,500-00	Body weight gain, Cost of meat production, Incidences of diseases (Foot root)	SMS(ASc), SMS(AE) and SS&H
Liver tonic	1lt x3 nos	540-00		8,100-00		
Special mineral mixture	5 kg x1 no	500-00		7,500-00		
<b>Total</b>		<b>1,140-00</b>		<b>17,100-00</b>		

Sl. No.	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
3	Livestock	Dairying	<p>Low lactation yield, Dystokia, Retention of placenta, Uterine infections and lower body weight gain at puberty.</p> <p>Causes:</p> <ul style="list-style-type: none"> <li>• Parasitic infestation</li> <li>• Reduced drymatter intake</li> <li>• Lack of exercise during pregnancy</li> <li>• Lack of feeding compounded feeds, essential vitamins and minerals during dry periods</li> <li>• Reduced immunity due to delayed/insufficient colostrums feeding.</li> <li>• Lack of essential nutrients due to under nutrition (less milk feeding)</li> </ul>	Care and Management of Pregnant cows during dry period (Advanced pregnancy) and scientific management in raising crossbred calves.	Crossbred dairy animals	-	KVAFSU (Bidar)

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
Dewormer	3g x2	120-00	15	32,550-00	Birth weight of Calf, Lactation yield, Incidences of ROP	SMS(ASc), SMS(AE) and SS&H
	600 mg x 2	50-00				
ASMM	1kg x10=10 kg	1,200-00				
Uterine tonic	500 ml x1	300-00				
VM Tonic	5 l	500-00				
<b>Total</b>		<b>2170-00</b>		<b>32,550-00</b>		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
4	Fodder	Hydroponic fodder	<ul style="list-style-type: none"> <li>• Low milk yield</li> </ul> <b>Causes:</b> <ul style="list-style-type: none"> <li>• Scarcity of water during summer for fodder cultivation</li> <li>• Lack of land for growing fodders</li> <li>• Scarcity of good quality fodders during summer periods, poor digestibility of dry fodders.</li> </ul>	Hydroponic fodder production to alleviate fodder scarcity	ATM	-	NIANP(B)

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
Hydroponic Trays	60 cm x 90 cm (4 Nos)	2,000-00	10	20,000-00	Milk yield, milk quality, voluntary Intake of fodder & Fodder yield	SMS(ASc), SMS (Agron) & SS&H
	<b>Total</b>	<b>2,000-00</b>		<b>20,000-00</b>		

## 9.8 Fisheries:

S. No	Category	Crop/enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Fisheries	Fish	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Improper stocking and feeding</li> <li>• Unsuitable species</li> <li>• Poor pond management</li> </ul>	<b>Integrated Management of composit Fish culture in ponds</b> <ul style="list-style-type: none"> <li>• Pond preparation &amp; management</li> <li>• Seed selection and stocking</li> <li>• Feed and feeding management</li> <li>• Health and water quality monitoring</li> <li>• Harvesting</li> </ul>	Variety	<i>Catla catla</i> , <i>Labeo rohita</i> , <i>Amur Cyprinus carpio</i> , <i>Pangassius sp.</i> , <i>Ctenopharyngodon idella</i>	KVAFSU, Bidar

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
Fish seeds	2000	2,000-00	10 (each demo = 1acre)	20,000-00	<ul style="list-style-type: none"> <li>• Average body weight (g)</li> <li>• Yield (t/ha)</li> </ul>	SSH, SMS (Animal Science)
Vitamin mineral mixture	5 kg	500-00		5,000-00		
Plankton net	1	550-00		5500-00		
		<b>3,050-00</b>		<b>30,500-00</b>		

## 9.9 Others:

## 9.9.1 Oilseeds: (NMOOP)

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Oilseeds	Sunflower	Low yield	<p><b>ICM in Sunflower</b></p> <ul style="list-style-type: none"> <li>➤ Use of KBSH-53/MFSH-17 @ 5 kg/ha.</li> <li>➤ Application of ZnSO<sub>4</sub> 10kg/ha</li> <li>➤ Spraying with Boron 0.1% at the time of flowering (1.0 kg/ha)</li> <li>➤ Spraying with KNO<sub>3</sub> @ 2kg/ha at 35 DAS</li> </ul> <p><b>PP measures</b></p> <ul style="list-style-type: none"> <li>➤ Spray with Imidacloprid @0.3ml /l at 45 and 60 DAS against bud necrosis- 200ml/ha</li> <li>➤ Spray with Indoxicarb @ 0.3ml/l against head borer- 200ml/ha</li> </ul> <p>Spraying with Mancozeb @ 1g/l of water</p>	Hybrid	Private	UAS, Bangalore and UAHS, Shivamogga

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
➤ KBSH-53/MFSH 17	2 kg	800-00	25	20,000-00	<ul style="list-style-type: none"> <li>• Plant Height (cm)</li> <li>• Head Size</li> <li>• Test weight</li> <li>• Yield (q/ha)</li> </ul>	SMS (Agronomy, Plant Protection, Soil Science) SS&H
➤ ZnSO <sub>4</sub>	4.0 kg	200-00		5,000-00		
➤ Boron	0.4 kg	120-00		3,000-00		
➤ KNO <sub>3</sub>	0.8 kg	120-00		3,000-00		
➤ Imidacloprid	80 mL	200-00		5,000-00		
➤ Indoxicarb	80 mL	240-00		6,000-00		
➤ Mancozeb	200 g	160-00		4,000-00		
		<b>1,840-00</b>				



## 9.9.2 Pulses: (NFMS)

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated		Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Pulses (NFMS)	Bengalgram	<ul style="list-style-type: none"> <li>Low yield</li> </ul>	<b>Integrated Crop Management in Bengalgram</b> <ul style="list-style-type: none"> <li>Use of HYV JAKI-9218 @ 62.5 kg/ha</li> <li>Seed treatment with <i>Trichoderma harziannum</i> @4gm/kg of seed</li> <li>Seed treatment and soil application of <i>Rhizobium</i>, PSB and VAM @ 2.0 kg each /ha</li> <li>Pulse magic @ 5kg/ha (50% each at flowering and pod formation)</li> <li>Use of trap crop @ 5kg/ha</li> <li>Use of bird perches</li> <li>Use of pheromone traps @10/ha</li> <li>1<sup>st</sup> spray with ovicidal insecticides Profenophos @ 2 ml / l</li> </ul>		Variety	JAKI 9218	JNKVV & ICRISAT
Name of critical input		Qty per Demo	Cost per Demo (Rs)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied		Team members
<ul style="list-style-type: none"> <li>➤ Jaki 9218</li> <li>➤ Rhizobium, PSB</li> <li>➤ <i>Trichoderma</i></li> <li>➤ Pulse magic</li> <li>➤ pheromone trap</li> <li>➤ Profenophos</li> </ul>		25.0 kg	1,420-00	25	67,500-00	<ul style="list-style-type: none"> <li>No. of pods/plant</li> <li>% incidence of wilt and pod borer</li> <li>Test weight (g)</li> <li>Yield (q/ha)</li> </ul>		SMS (Agronomy, Plant Protection, Soil Science and (SS&H))
<b>Total</b>			<b>2,700-00</b>		<b>67,500-00</b>			

Sl. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2	Pulses (NFSM)	Redgram	<ul style="list-style-type: none"> <li>Low Yield</li> </ul>	<p><b>Integrated crop management in redgram</b></p> <ul style="list-style-type: none"> <li>Use of BRG-5 medium duration wilt resistant variety</li> <li>Use of <i>Rhizobium</i>, PSB 2.5 kg/ha and <i>Trichoderma harziannum</i> @ 5kg/ha</li> <li>Spray with Pulse magic (UAS, Raichur) 10g/l @ 5kg/ha</li> <li>Installation of Pheromone traps @ 8no. / ha(16 lures)</li> <li>Spray with Profenophos @ 2ml/l-ovicidal- 1 l/ha</li> <li>Spray with Neem based insecticide @3ml/l – 1l /ha</li> <li>Spray with Indoxicarb @0.5ml/l - 200 ml / ha</li> </ul>	Variety	BRG-5	UAS, Bengaluru

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
BRG-5 Seeds	6 kg	960-00	25	67,500-00	<ul style="list-style-type: none"> <li>Germination (%)</li> <li>Plant height (cm)</li> <li>No. of branches/plant</li> <li>No. of pods/plant</li> <li>Incidence of pod borer and wilt (%)</li> <li>Yield (q/ha)</li> </ul>	SMS (Plant Protection, Agronomy, Agricultural Extension, Soil Science) & SSH
<i>Rhizobium</i>	0.4 kg	40-00				
PSB	0.4 kg	40-00				
<i>Trichoderma harziannum</i>	2 kg	250-00				
Pulse magic	Trap 3 nos & lures	600-00				
Pheromone traps & lures	6 nos.	200-00				
Profenophos	0.4 l	120-00				
Neem oil	0.08 l	250-00				
Indoxicarb						
		<b>2,700-00</b>		<b>67,500-00</b>		

Sl. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
3	Pulses (NFSM)	Black gram	<ul style="list-style-type: none"> <li>• Improper Nutrient Management</li> <li>• Single crop per year</li> <li>• Mono cropping</li> <li>• Micronutrient deficiency</li> </ul>	<b>Integrated crop management in blackgram</b> <ul style="list-style-type: none"> <li>• Use of DBGV-5 seeds: 25 kg/ha</li> <li>• Seed treatment with Calcium chloride @ 2%</li> <li>• Application of biofertilizers</li> <li>• Spray with Pulse Magic @ 5 kg/ha (10 g/l)</li> <li>• Spray with Imidachloprid @ 0.3 ml/l -200 ml / ha.</li> <li>• Spray with Hexaconazole @ 1 ml/l-500 ml/ha</li> </ul>	Variety	DBGV-5	UAS, Dharwad

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
Seeds DBGV-5	10 kg	1,200-00	25	67,500-00	<ul style="list-style-type: none"> <li>• No. of pods per plant</li> <li>• Test weight (g)</li> <li>• Yield (q/ha)</li> </ul>	SMS (Soil Science, Agronomy, Plant Protection)
Calcium chloride	250 kg	300-00				
<i>Rhizobium</i> , PSB &	3 kg	240-00				
VAM	2 kg	500-00				
Pulse magic	100 ml	200-00				
Imidachloprid	500 ml	260-00				
Hexaconazole						
		<b>2,700-00</b>		<b>67,500-00</b>		

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

Sl. No	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
1	2	3	4	5	6	7	8	9
<b>10.1</b>	<b>Crop Production</b>							
	ICM	Foxtail millet	Low yield, No seed treatment with Bio fertilizers	OFT	Improved production technology for higher yield in Foxtail millet	01	25	SMS (Agronomy)
	ICM	Maize+ Redgram	Low yield No intercropping Poor soil fertility	FLD	Improved production technology in Maize +redgram intercropping	01	25	SMS (Agronomy)
	ICM	Ragi	Low yield, No seed treatment with Bio fertilizers	FLD	Seed treatment with bio fertilizers to improve the production Importance of foliar nutrition in increasing the yield under moisture stress	01 01	25 25	SMS (Agronomy)
	ICM	Groundnut	Low yield Non availability of quality seed for sowing No seed treatment Root rot, tikka leaf disease Poor fodder quality	Others	Improved production technology in groundnut to increase the productivity	01	30	SMS (Agronomy)

	ICM	Bengal Gram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment with Bio fertilizers</li> <li>• Non-availability of HY varieties.</li> <li>• Improper nutrient management</li> <li>• Pod borer, Wilt</li> </ul>	FLD/OFT	<ol style="list-style-type: none"> <li>1. Integrated Nutrient management</li> <li>2. Monitoring of pod borer through pheromone traps</li> </ol>	01	25	SMS (Agronomy) SMS(Plant protection )
	ICM	Sunflower	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment with Bio fertilizers</li> <li>• Improper nutrient management</li> <li>• No IPM</li> </ul>	FLD	ICM in Sunflower IPDM in Sunflower	01 01	40 40	SMS (Agronomy) SMS(Plant protection)
<b>10.2</b>	<b>Horticulture Production</b>							
	<b>Plantation Crops</b>  Production and Management Technology	Arecanut	<ul style="list-style-type: none"> <li>• Low yield FLD</li> <li>• Button shedding</li> <li>• Hidimundige</li> </ul>	FLD	• ICM in Arecanut	01	30	SMS (Horticulture, Plant Protection and Soil Science)
		Coconut	<ul style="list-style-type: none"> <li>• Non use of interspace in younger periods</li> <li>• Low income in existing intercrops</li> </ul>	FLD	• ICM in Coconut	01	30	SMS (Horticulture, Plant Protection and Soil Science)
	<b>Fruit Crops</b> Cultivation of fruit	Banana	<ul style="list-style-type: none"> <li>• Micronutrient deficiency</li> <li>• Low bunch weight</li> <li>• Low productivity per unit area</li> </ul>	--	• ICM in Banana	01	30	SMS (Horticulture , Plant Protection and Soil Science)

	<b>Vegetable Crops</b> Off season vegetables	Onion	<ul style="list-style-type: none"> <li>• Low productivity of existing varieties</li> <li>• Incidence of purple blotch and thrips</li> </ul>	FLD and OFT	• ICM in Onion	01	30	SMS (Horticulture, Plant Protection and Soil Science)
		Terrace gardening	Nutritional insecurity	FLD	Terrace Gardening	01	30	SMS (Horticulture, Plant Protection and Soil Science)
<b>10.3</b>	<b>Livestock Production</b>							
		Dairying	Repeat breeding / Infertility problems & Lower production.	FLD and OFT	Balanced nutrition in dairy cattle	01	25	SMS (ASc)
			Low quality and unhygienic milk production, Mastitis problems		Clean and quality milk production	01	25	SMS (ASc)
<b>10.4</b>	<b>Home Science</b>							
<b>10.5</b>	<b>Plant Protection</b>							
	IPDM	Paddy	<ul style="list-style-type: none"> <li>• Stem borer, BPH, Blast and Sheath blight problem</li> <li>• No seed treatment with chemicals</li> </ul>	FLD	• Integrated management of stem borer, BPH and blast in paddy	01	20	SMS (Plant Protection Agronomy, and Soil Science)
	IPDM	Redgram	• Pod borer and wilt	FLD	• ICM in redgram	01	20	SMS (Plant Protection Agronomy, and Agri. Extension)

	IPM	Cotton	<ul style="list-style-type: none"> <li>Incidence of sucking and pink boll worm</li> </ul>	FLD	<ul style="list-style-type: none"> <li>Integrated management of sucking pest in cotton</li> </ul>	01	20	SMS (Plant Protection Agronomy, and Agri. Extension)
	IPDM	Tomato	<ul style="list-style-type: none"> <li>Incidence of fruit borer, powdery mildew, blight and TLCV</li> </ul>	FLD	<ul style="list-style-type: none"> <li>IPDM in tomato</li> </ul>	01	15	SMS (Plant Protection Horticulture, and Agri. Extension)
<b>10.6</b>	<b>Production of Inputs at Site</b>							
<b>10.7</b>	<b>Soil Health and Fertility</b>							
	INM	Wheat	<ul style="list-style-type: none"> <li>Improper nutrient management</li> </ul>	FLD	<ul style="list-style-type: none"> <li>INM in Wheat</li> </ul>	01	25	SMS (Soil Science)
	INM	Sorghum	<ul style="list-style-type: none"> <li>Improper nutrient management, Moisture stress</li> </ul>	FLD	<ul style="list-style-type: none"> <li>INM in Sorghum</li> </ul>	01	25	SMS (Soil Science)
	INM	Paddy	<ul style="list-style-type: none"> <li>Low soil fertility</li> </ul>	Others	<ul style="list-style-type: none"> <li>Soil fertility management paddy soils</li> </ul>	01	25	SMS (Soil Science and Agronomy)
	INM	Black gram	<ul style="list-style-type: none"> <li>Improper nutrient management</li> </ul>	FLD	<ul style="list-style-type: none"> <li>INM in black gram</li> </ul>	01	25	SMS (Soil Science)
	INM	Arecanut	<ul style="list-style-type: none"> <li>Low soil fertility and soil aeration</li> </ul>	FLD	<ul style="list-style-type: none"> <li>Importance of intercropping in improving soil aeration</li> </ul>	01	25	SMS (Soil Science and Horticulture)
	INM	French bean	<ul style="list-style-type: none"> <li>Improper nutrient management</li> </ul>	FLD	<ul style="list-style-type: none"> <li>INM in French bean</li> </ul>	01	25	SMS (Soil Science and agronomy)
	INM	Onion	<ul style="list-style-type: none"> <li>Improper nutrient management</li> </ul>	OFT	<ul style="list-style-type: none"> <li>INM in onion</li> </ul>	01	20	SMS (Soil Science and Horticulture)
<b>10.8</b>	<b>PHT and value addition</b>							
<b>10.9</b>	<b>Capacity Building Group Dynamics</b>							
<b>10.10</b>	<b>Farm Mechanization</b>							

10.11	<b>Fisheries Production Technologies</b>	Fish	• Low yield	FLD	• Improved production of fish in ponds	2	20	SS&H
10.12	<b>Mushroom production</b>							
10.13	<b>Agro forestry</b>							
10.14	<b>Bee Keeping</b>							
10.15	<b>Sericulture</b>							
	<b>Total</b>					<b>27</b>	<b>675</b>	

### 11. Training for Rural Youth during 2017-18

S.No	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)*	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
1	2	3	4	5	6	7	8	9
<b>11.1</b>	<b>Crop Production</b>							
	ICM	Maize+ Redgram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Nutrient Management</li> </ul>	FLD	1. Importance of seed treatment with Bio fertilizers 2. Pod borer management through IPM measures	01	20	SMS (Agronomy, Soil Science and Plant Protection)
<b>11.2</b>	<b>Horticulture Production</b>							
	Nursery management of Horticulture crops	Vegetable crops	<ul style="list-style-type: none"> <li>• Lack of availability of good quality seedlings</li> </ul>	--	<ul style="list-style-type: none"> <li>• Nursery techniques in vegetable crops</li> </ul>	01	20	SMS (Horticulture, Plant Protection and Soil Science)



1	2	3	4	5	6	7	8	9
<b>11.3</b>	<b>Livestock Production</b>							
	Dairying		<ul style="list-style-type: none"> <li>• Lower production,</li> <li>• Repeat breeding &amp; Infertility problems, Low quality and unhygienic milk production, Mastitis problems</li> <li>• Lower body weight gain &amp; reproductive problems in small ruminants</li> </ul>	FLD	<p>Scientific management of dairy animals for better performance</p> <p>Advantages of stall feeding methods in sheep rearing.</p>	01	25	SMS(ASc)
<b>11.4</b>	<b>Home Science</b>							
<b>11.5</b>	<b>Plant Protection</b>							
<b>11.6</b>	<b>Production of Inputs at Site</b>							
<b>11.7</b>	<b>Soil Health and Fertility</b>							
	IFS	Integrated farming system	<ul style="list-style-type: none"> <li>• No use of organic manure</li> </ul>	--	<ul style="list-style-type: none"> <li>• Integrated farming system for sustainable agriculture</li> </ul>	01	25	SMS (Soil Science, Agronomy)
<b>11.8</b>	<b>PHT and value addition</b>							
<b>11.9</b>	<b>Capacity Building Group Dynamics</b>							
<b>11.10</b>	<b>Farm Mechanization</b>							

11.11	<b>Fisheries Production Technologies</b>			
11.12	<b>Mushroom production</b>			
11.13	<b>Agro forestry</b>			
11.14	<b>Bee Keeping</b>			
11.15	<b>Sericulture</b>			
	<b>Total</b>		<b>6</b>	<b>135</b>

**12 Training for Extension Personnel during 2017-18**

S.No.	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
<b>12.1</b>	<b>Crop Production</b>				
	ICM	Production technology in Oilseeds crops(sunflower and Groundnut)	01	15 (AO's AAO)	SMS (Agronomy)
		Improved Production technology in Minor Millets	01	30 Field Facilitators)	SMS (Agronomy)
<b>12.2</b>	<b>Home Science</b>				
<b>12.3</b>	<b>Capacity Building and Group Dynamics</b>				
<b>12.4</b>	<b>Horticulture</b>				
	Business model in Agriculture	• Importance of FPO's and their operation	01	30	SMS (Horticulture)
<b>12.5</b>	<b>Livestock Production &amp; Management</b>				
		• Silage and Hay making methods and It's advantages	01	25	SMS( ASc) and SMS (AE)
<b>12.6</b>	<b>Plant Protection</b>				
	IPDM	• IPDM in Pulses and Oilseeds	01	25 (Ao,AAO and field staff of Department of Agriculture)	SMS(Pant Protection)
<b>12.7</b>	<b>Farm Mechanization</b>				
	ICM	Mechanization in rice production System	01	40 (AO ,AAO and FF)	SMS (Agronomy)
<b>12.8</b>	<b>PHT and value addition</b>				
<b>12.9</b>	<b>Production of Inputs at Site</b>				
<b>12.10</b>	<b>Sericulture</b>				
<b>12.11</b>	<b>Fisheries</b>				
	<b>Total</b>		<b>6</b>	<b>165</b>	

## 13 Vocational trainings during 2017-18

Sl. No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth etc.)	Expected No. of participants	Sponsoring agency	Names of the team members involved
<b>13.1</b>	<b>Crop Production</b>						
<b>13.2</b>	<b>Home Science</b>						
<b>13.3</b>	<b>Capacity Building and Group Dynamics</b>						
<b>13.4</b>	<b>Horticulture</b>						
	Terrace Gardening	Terrace Garden for Urban Nutritional Security	01(35 Days)	Youths	30	ASCI, New Dehli	SMS(Horticulture, Plant protection)
<b>13.5</b>	<b>Livestock Production &amp; Management</b>						
		Dairy Farmer - Entrepreneur	01 (30 days)	SHGs and DDFA members	30	ASCI, New dehli	SMS( ASc), SMS (CP) and SMS (AE)
<b>13.6</b>	<b>Plant Protection</b>						
<b>13.7</b>	<b>Farm Mechanization</b>						
<b>13.8</b>	<b>PHT and value addition</b>						
<b>13.9</b>	<b>Production of Inputs at Site</b>						
<b>13.10</b>	<b>Sericulture</b>						
<b>13.11</b>	<b>Fisheries</b>						
	<b>Total</b>		2		60		

**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 (SHGs, NYKs, School students, Women, Youth etc.)	Expected number of participants	Sponsoring agency	Names of the team members involved
<b>14.1</b>	<b>Crop Production</b>						
	ICM (Maize and paddy)	Integrated crop management in maize and paddy(Seed treatment with bio fertilizers)	01 (1day)	SHG farmers	30	Department of Agriculture	SMS (Agronomy)
<b>14.2</b>	<b>Home Science</b>						
<b>14.3</b>	<b>Capacity Building and Group Dynamics</b>						
<b>14.4</b>	<b>Horticulture</b>						
	Protected cultivation	<ul style="list-style-type: none"> <li>Protected cultivation</li> </ul>	01 (02 days)	FIG's	50	KWDP-II Sujala-III Dept. of Horticulture	SMS (Horticulture & Plant Protection)
<b>14.5</b>	<b>Livestock Production &amp; Management</b>						
		<ul style="list-style-type: none"> <li>Integrated dairy farming and vermiculture/vermicompost production for livelihood security.</li> </ul>	02 (6 days)	SHGs and selected rural youths.	50	ZP, Davanagere and NGOs	SMS(ASc),SMS(CP) and SMS (AE)
<b>14.6</b>	<b>Plant Protection</b>						
	IPDM	<ul style="list-style-type: none"> <li>IPDM in vegetables</li> </ul>	01 (01day)	Farmers	25	Bayer crop science	SMS (Plant Protection)

<b>14.7</b>	<b>Farm Mechanization</b>				
<b>14.8</b>	<b>PHT and value addition</b>				
<b>14.9</b>	<b>Production of Inputs at Site</b>				
<b>14.10</b>	<b>Sericulture</b>				
<b>14.11</b>	<b>Fisheries</b>				
	<b>Total</b>	<b>5</b>		<b>155</b>	

\*\*\*\*\* PAID TRAININGS \*\*\*\*\*

<b>Sl. No.</b>	<b>Title</b>	<b>Scientist</b>	<b>Duration</b>	<b>No. of participants</b>
1.	Maintenance of borewell machinery	SMS (Agricultural Extension) & SS&H	2 days	30
2	Integrated pest management in paddy, maize.	SMS (Plant Protection)	2 days	25
3	Judicious use of inorganic fertilizers to enhance fertilizers use efficiency	SMS (Soil Science)	2 days	20
4	Orientation for Farm Science courses	SMS (Horticulture)	3 days	150
5	Integrated crop management in Maize, Redgram	SMS (Agronomy)	2 days	40
6	Mechanization in paddy production system	SMS (Agronomy)	2 days	20
		<b>Total</b>	<b>6 Nos</b>	

## 15. Extension programmes during 2017-18

Sl. No.	Extension Programme/ Activity*	No. of programmes or activities	Expected number of participants	Names of the team members involved
15.1	Advisory Services	1500	1600	All SMS & SSH
15.2	Diagnostic Visits	15	75	
15.3	Field Day	27	2500	
15.4	Group Discussions	5	200	
15.5	Kisan Gosthi	1	30	
15.6	Film Show	10	400	
15.7	Self -Help Groups	3	60	
15.8	Kisan Mela	2	50,000	
15.9	Exhibition	3	25,000	
15.10	Scientists' Visit to Farmers Field	25	600	
15.11	Plant/Soil Health/Animal Health Camps	4	250 Samples + 200 animals	
15.12	Farm Science Club	1	25	
15.13	Ex-Trainees Sammelan	1	55	
15.14	Farmers' Seminar/Workshop	6	300	
15.15	Method Demonstrations	9	80	
15.16	Celebration of Important Days	3	110	
15.17	Special Day Celebration	4	250	
15.18	Exposure Visits	3	100	
15.19	Technology Week,	1	1000	
15.20	Farmers Field School (FFS)	1	25	
15.21	Farm Innovators Meet	1	60	
15.22	Awareness Programs	2	200	
	<b>Others, pl. specify</b>		-	
	1 Kisan Mobile Advisory Services	70	8000	
	2 Radio talk	6	-	
	3 TV talk	6	-	
	4 Popular articles	10	-	
	5 News paper coverage	50	-	
	6 Plant Health Clinic services	300	300 samples	

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

### 16.1 Technological knowledge

Sl. No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
1	2	3	4	5
<b>16.1.1</b>	<b>Technology Park/ Crop cafeteria</b>			
	Vegetable crop cafeteria	Crop cafeteria of varieties developed by IIHR Bengaluru for Davangere district	0.2 ha	SMS (Horticulture) & SSH
	Fruit orchard	Drumstick Block (KDM-1) + Coconut germ plasm	0.2 ha	SMS (Horticulture) & SSH
<b>16.1.2</b>	<b>Demonstration Units</b>			
	Demonstration Units (INSIMP)	Millets processing and Powdering	1 unit	SMS (Agronomy)
	<i>Trichoderma</i> production unit	<i>Trichoderma harziannum</i> production	1 unit	SMS (Plant protection)
	Animal Husbandry	1. Crossbred Cow Dairy unit 2. Milking Machine (single bucket) 3. Fodder cutting Machine(5 HP) 4. Rubber mats for cattle shed 5. Azolla production unit 6. Vermiculture & Vermicompost units 7. Biogas production unit 8. Gobar gas production unit 9. Varietal fodder plots 10. Hydroponic fodder production	5-Cow unit 01 01 4 ft x 6 ft-10 nos 4 ft x 8 ft x 1 ft-5 nos 20 ft x 4 ft x 2.5 ft- 10 Nos 01 01 1 acre 2 ft x 1.5 ft x 0.25 ft-8 trays	SMS (Animal Science)
	Fisheries	1. Ornamental Fish unit 2. Common Carp hatchery 3. Fish cum paddy unit	20 No's - 150 sq m	SS&H

<b>16.1.3</b>	<b>Lab Analytical services</b>			
	PHC Lab	Plant Analysis	1 unit	SMS (Plant protection)
	Soil & Water testing Lab	Soil and water analysis	3 students project	SMS (Soil Science) & Programme Assistant (Lab Technician)
<b>16.1.4</b>	<b>Technology Week</b>	Frontline Demonstration and on farm trials, demonstration units in the KVK instructional farm will be exhibited. An agricultural exhibition will be organized in collaboration with Development Department, Agri input agencies, Krishika Samaj, NGO's. Seminars and Ghosties will be organized on the occasion. High school students will be mobilized to participate in the programme	1 (5 days)	All team members

## 16.2 Technological Products

Sl.No.	Category	Name of the Production Partner Agency, if any	Name of the product	Quantity (q)/ Number planned to be produced during 2016-17	Names of the team members involved
16.2.1	Seeds	UHS , Bagalkot	Drumstick seeds	50 kg	SMS (Horticulture)
16.2.2	Planting materials	-	1.Fodder root slips 2.Azolla culture	10-15 thousands 250-300 kg	SMS (ASc)
		-	Coconut seedlings (Arsikere Tall)	2500 Numbers	SMS (Horticulture)
		-	Arecanut seedlings (Channagiri Local)	10000 Numbers	SMS (Horticulture)
		-	Drumstick seedlings(KDM-1)	15000 Numbers	SMS (Horticulture)



16.2.3	Bio-products	-	<i>Trichoderma harziannum</i>	7.0 g	SMS (Plant Protection)
		-	1.Vermicompost 2.Earthworms 3.Biogas production	15-20 tonnes 30-40 kgs 10 cu ft gas/dsy	SMS (ASc)
			Banana Special	15 g	SMS (Horticulture)
16.2.4	Livestock strains	-	Good pedigree calves	2-3 nos	SMS (ASc)
16.2.5	Fish fingerlings		Spawn and fry	10 lakhs	SS&H

### 16.3 Technological Information

Sl.No.	Category	Technological capsules / Number	Names of the team members involved
16.3.1	Technology backstopping to line departments		
	Agriculture	02	SMS(Agronomy)
	Horticulture	01	SMS(Horticulture)
	Plant Protection	03	SMS (Plant Protection)
	Animal Husbandry	Dry fodder enrichment, production of leguminous fodders and Azolla cultivation should be encouraged.	SMS (A Sc) & SMS (AE)
	Fisheries		
	Agricultural Engineering		
	Sericulture		
	Others, pl. specify		
16.3.2	Literature/publication	02	SMS(Agronomy)
	Leaf lets	01	SMS (Plant Protection)
		02	SMS (Soil science)
		02	SMS (Horticulture)
		01	SMS (Plant Protection)
	Folder	Folders :2 types (2000)	SMS (A Sc) & SMS (AE)
		01	SMS (Soil science)
		02	SMS (Horticulture)
	Book	01	SMS(Agronomy)

<b>16.3.3</b>	<b>Electronic Media</b>	02	SMS(Agronomy)
	<b>Television</b>	02	SMS (Plant Protection)
		01	SMS (Animal Science)
		01	SMS (Soil science)
		02	SMS (Horticulture)
		02	SMS (Plant Protection)
	<b>Radio</b>	02	SMS (Soil science)
		02	SMS (Horticulture)
		02	SMS(Agronomy)
		02	SMS(Agronomy)
<b>16.3.4</b>	<b>Kisan Mobile Advisory Services</b>	40	All team members
<b>16.3.5</b>	<b>Information on centre/state sector schemes and service providers in the district.</b>	Book on 'Service providers of the district and centre/state sector schemes' will be revised	SMS (Agricultural Extension)

## 17. Additional Activities Planned during 2017-18

Sl. No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.) (for 5 entrepreneurs):				Names of the team members involved
				Particulars	No.	Appro, Cost/unit (Rs.)	Amount (Rs.)	
17.1	EDP	Entrepreneurship Development for Mango Produce	<p>❖ <b>Problem:</b> Mango is grown in 4376 ha in Davanagere district with production of 35279 mt and productivity being 8.06 t/ha. The major problem in mango is marketing. Where in producer share in consumer price is less compared to other agricultural crops. The growers are not showing interest in marketing of mango, instead they lease out gardens for 1 or 2 year. There is need to motivate farmers to involve in marketing to get better share in consumers price.</p>					SMS (AE, Horti.)& SS&H
				Mango Harvesters	05	500-00	2,500-00	
				Plastic crates	25	400-00	10,000-00	
				Shade Umbrella (Big) at sale point	05	1000-00	5000-00	
				Curtoon box (2 dozen capacity)	1000	6-00	6000-00	
				Lables/Stickers	1000	2-00	2000-00	
				Publicity banner at sale point	5	600-00	3000-00	
						<b>Total</b>	<b>28,500-00</b>	
			<p>❖ <b>Objectives:</b></p> <ul style="list-style-type: none"> <li>To produce high quality Mango produce through Integrated Crop Management technologies.</li> <li>To imbibe EDP skills in production and marketing for farmers cultivating mango.</li> <li>To enhance returns from mango cultivation.</li> <li>To expand marketing network for mango produce.</li> </ul>					

			<p>❖ <b>Activities:</b></p> <ul style="list-style-type: none"> <li>• Identify 5 farmers cultivating mango.</li> <li>• Train them on high quality mango production and EDP skills in marketing.</li> <li>• Facilitating sale of quality mango fruits by KVK through:             <ol style="list-style-type: none"> <li>1. Setting up road side stalls by entrepreneurs.</li> <li>2. Networking with retail chain agencies.</li> <li>3. Linking growers with Mango board, Saffal, Reliance and Other Agencies.</li> <li>4. Linkage with APEDA and other agencies for export standards.</li> </ol> </li> </ul>		
			<p>❖ <b>Expected output and Outcome:</b></p> <ul style="list-style-type: none"> <li>• Enhanced marketing skills of mango grower.</li> <li>• Enhanced marketing awareness.</li> <li>• Enhanced returns from sale of mango produce.</li> <li>• Increased consumer contact for mango producers.</li> <li>• Enhanced demand for quality produce.</li> </ul>		
17.2	NICRA	Crop technology demonstration	Dryland Agriculture, IFS, Water and soil conservation, Animal Husbandry technologies	-	SS and Head SMS (Agronomy and Animal Science)

17.3	INSIMP	Millet processing and powdering	Grading and cleaning Powdering	-	SMS (Agronomy)
17.4	UAS (B) / UAHS (S) / CIMMYT, Hyderabad	Farm Trials of different crops (Maize, Paddy and Finger Millet)	Conducting the Farm trials for varietal evaluation and Demonstration of different varieties for higher yield	-	SMS (Agronomy)
17.5	Plant Health Clinic	Plant diagnosis	Diagnosis of affected plant samples (200 No.s)	-	SMS (Plant Protection)
17.6	CHD, Dept. Of Horticulture, Davanagere	Training	2 Trainings for the 100 Banana farmers on value addition	50,000/-	SMS (Horticulture)
17.7	Davanagere Dairy Farmers Association®, Davanagere	Artificial Insemination service under DDFA	Providing AI service with good quality semen of different breeds at farmers doorstep (150-200 per month)	1.0 lakh	SMS (Asc)& DDFA members
17.8	IFS	Workshop on IFS	2 day workshop on IFS will be organized in KVK. Experts in IFS and successful IFS farmers will be called to address the gathering of about 60 farmers	25,000/- (A proposal in this regard will be submitted to KSCT, Bengaluru)	SMS (Agricultural Extension)

17.9	TRDF	Krishi Mela	<ol style="list-style-type: none"> <li>5 day Krishimela from 20-24<sup>th</sup> September 2017.</li> <li>9 day Krishimela in February 2018 alongwith Development Department, NGOs, Input Dealers.</li> </ol>		SMS (Agricultural Extension)
17.10	TKVK (Kasa Rasa Abhiyana) - Innovative Programme	Conversion of kitchen wet waste to compost	<ul style="list-style-type: none"> <li>➤ Swatcha Bharath Abhiyana – our contribution!</li> <li>➤ Kitchen waste –Segregated at source</li> <li>➤ Wet waste converted to useful compost at household level</li> <li>➤ Probable remedy for reducing menace of stray animals especially in urban areas</li> <li>➤ Generated compost- Kitchen garden, Terrace garden, Organic farming</li> </ul>	Compost culture @ Rs. 300/-/person 100 House holds	30,000-00

## 18. Revolving Fund

### 18.1 Financial status

Opening balance as on 01.04.2016 (Rs.in Lakh)	Expenditure incurred during 2016-17 (Rs.in Lakh)	Receipts during 2016-17 (Rs.in Lakh)	Closing balance as on 31.01.2017 (Rs.in Lakh)	Expected closing balance by 31.03.2017 (Including value of material in stock/ likely to be produced) (Rs. in Lakh)
07.905	35.188	32.018	04.735	10.000

**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	Sunhemp seed production	3 q	15,000-00	Farm Manager and SMS (Agronomy)
18.2.2				
18.2.3	Dhaiancha seed production	3 q	15,000-00	
18.2.4	Finger Millets seed production	3q	16,000-00	
18.2.5	Minor millets seed production	4 q	16,000-00	
18.2.6	Redgram seed production	3 q	24,000-00	
18.2.7	French Bean seed production	1 q	15,000-00	
18.2.8	Balckgram seed production	3 q	18,000-00	Farm Manager, SMS (Soil Science)
18.2.9	INSIMP (Millet processing Cleaning and powdering)	-	5,000-00	SMS (Agronomy)
18.2.10	Bioagent production ( <i>Trichoderma harziannum</i> )	700 kg	30,000-00	SMS (Plant Protection)
18.2.11	Horticulture nursery	13000 Seedlings	3,00,000-00	SMS (Horticulture)
18.2.12	Banana Special	2000 kg	3,50,000-00	SMS (Horticulture) & Programme Assistant (Lab Technician)
18.2.13	Crossbred cow dairy unit	700-750 l	2,50,000-00	SMS (A Sc)
18.2.14	Vermicompost	15 tonnes	1,00,000-00	SMS (A Sc)
18.2.15	Earthworms production	25-30 kgs	7,500-00	SMS (A Sc)
18.2.16	Azolla production	250 kgs	5,000-00	SMS (A Sc)
18.2.17	Ornamental Fish	5,000 no's	30,000-00	SS&H

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

Sl. No.	Type	No. of samples to be analyzed	Names of the team members involved
19.1	Soil	1200	SMS (Soil Science & Programme Assistant (Lab Technician))
19.2	Water	800	
19.3	Plant	-	
19.4	Others	-	

**20 E-linkage during 2017-18**

<b>S. No</b>	<b>Nature of activities</b>	<b>Likely period of completion (please set the time frame)</b>	<b>Remarks if any</b>
<b>20.1</b>	Title of the technology module to be prepared		
<b>20.2</b>	Creation and maintenance of relevant database system for KVK	October - 2017	Gaps will be completed
<b>20.3</b>	Any other (Data base)	--	Data base on soil, water test, Radio talk, TV talk, Farmers Advisory Service and Guest lecture, training, FLD, OFT are completed and same will be maintained

**21. Activities planned under Rainwater Harvesting Scheme - Nil****22. Innovator Farmer's Meet**

<b>Sl.No.</b>	<b>Particulars</b>	<b>Details</b>
<b>22.1</b>	Are you planning for conducting Farm Innovators meet in your district?	Yes
<b>22.2</b>	If Yes likely month of the meet	December 2017
<b>22.3</b>	Brief action plan in this regard	Innovative farmers in farm mechanization in the district (About 60) will be invited to meet, Details of their innovations will be presented in the meet and farmers name, contact address and innovations will be recorded.



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

Sl. No	Them atic area	Title of the FFS	Quanti ty/Number	Budget proposed in Rs.	Names of the team members involved
23.1	ICM	<b>Mechanization in paddy production System</b>			SMS(Agronomy, Soil Science, Plant Protection, Animal Science and SS & H)
		<b>A. Critical Inputs</b>			
		• Seeds –Bpt 5204	10.0 kg	<b>500-00</b>	
		• Micro nutrient spray	500 ml	<b>250-00</b>	
		• Seed treatment with Bio fertilizers (Azosprillium,PSB)	02.0 kg	<b>100-00</b>	
		• Pre and post Emergent weedicide (Butacholor and 2,4-D sodium salt)	2.0 kg	<b>500-00</b>	
		• Hiring Charges of Transplanter and Conoweeder (Power Operated)		<b>4,000-00</b>	
		• Plant protection chemicals (BPH, Stem borer, Blast)	-	<b>2,500-00</b>	
		<b>B. Meals and Refreshment during the classes</b>	-	<b>4,000-00</b>	
		<b>C. FFS training kit</b>	-	<b>9,000-00</b>	
		<b>D. Field Day and Report preparation</b>	-	<b>4,000-00</b>	
		<b>E. Preparation of Folder</b>	-	<b>5,000-00</b>	
		<b>TOTAL</b>		<b>29,850-00</b>	

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

<b>S. No.</b>	<b>Particulars</b>	<b>Sanctioned</b>	<b>Released</b>	<b>Expenditure</b>
<b>24.1</b>	<b>Recurring Contingencies</b>			
24.1.1	<b>Pay &amp; Allowances</b>	109.50	101.23	96.42
24.1.2	<b>Traveling allowances</b>	1.50	1.39	0.48
24.1.3	<b>Contingencies</b>	<b>11.70</b>	<b>10.82</b>	<b>8.23</b>
24.1.4.	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance			
<i>A</i>		2.75	2.54	1.61
<i>B</i>	POL, repair of vehicles, tractor and equipments	1.80	1.66	1.69
<i>C</i>	Meals/refreshment for trainees	0.75	0.70	0.38
<i>D</i>	Training material	0.50	0.46	0.30
<i>E</i>	Frontline demonstration except oilseeds and pulses	2.62	2.42	2.37
<i>F</i>	On Farm Testing - OFT	0.48	0.44	0.21
<i>G</i>	Integrated Farming System - IFS	0.30	0.28	0.00
<i>H</i>	Training Of Extension Functionaries	0.25	0.23	0.10
<i>I</i>	Extension Activities	0.25	0.23	0.24
<i>J</i>	Farmers' Field School - FFS	0.30	0.28	0.13
<i>K</i>	Soil & Water Testing & Issue of Soil Health Cards	0.50	0.48	0.06
<i>L</i>	Display Boards	0.10	0.09	0.08
<i>M</i>	Maintenance of buildings	1.00	0.92	1.00
<i>N</i>	Library Mtc.	0.10	0.09	0.06
<b>24.1</b>	<b>Total Recurring</b>	<b>122.70</b>	<b>113.44</b>	<b>105.13</b>
<b>24.2</b>	<b>Non-Recurring Contingencies</b>			
24.2.1	<b>Works</b>			
24.2.2	<b>Equipments including SWTL &amp; Furniture</b>	4.00	0.00	0.00
24.2.3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	8.00	0.00	0.00
24.2.4	<b>Library</b>			
<b>24.2</b>	<b>Total Non Recurring</b>	<b>12.00</b>	<b>0.00</b>	<b>0.00</b>
<b>24.3</b>	<b>REVOLVING FUND</b>			
<b>24.4</b>	<b>GRAND TOTAL (A+B+C)</b>	<b>134.70</b>	<b>113.44</b>	<b>105.13</b>

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

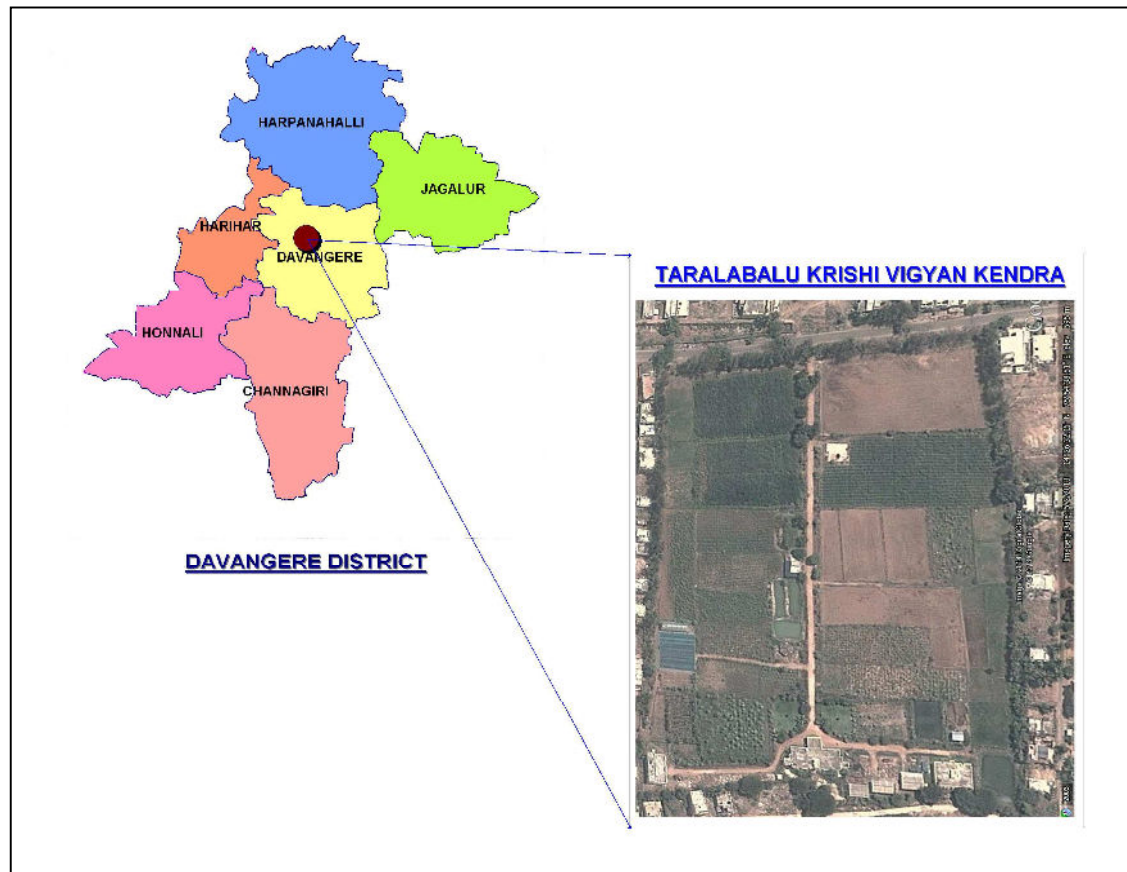
<b>S. No.</b>	<b>Particulars</b>	<b>BE 2017-18 proposed (Rs.in Lakhs)</b>
<b>25.1</b>	<b>Recurring Contingencies</b>	
25.1.1	<b>Pay &amp; Allowances</b>	136.40
25.1.2	<b>Traveling allowances</b>	2.00
25.1.3	<b>Contingencies</b>	<b>23.43</b>
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	3.50
<i>B</i>	POL, repair of vehicles, tractor and equipments	2.50
<i>C</i>	Meals/refreshment for trainees	1.00
<i>D</i>	Training material	2.00
<i>E</i>	Frontline demonstration except oilseeds and pulses – FLD	4.68
<i>F</i>	On Farm Testing - OFT	0.46
<i>G</i>	Integrated Farming System - IFS	0.60
<i>H</i>	Training Of Extension Functionaries	0.50
<i>I</i>	Extension Activities	1.00
<i>J</i>	Farmers' Field School - FFS	0.30
<i>K</i>	Soil & Water Testing Lab. Mtc. & Issue of Soil Health Cards	1.00
<i>L</i>	Display Boards	0.20
<i>M</i>	Maintenance of buildings	5.00
<i>N</i>	Library Mtc.	0.10
<i>O</i>	Entrepreneurship Development Programme - EDP	0.29
<i>P</i>	Innovative Programmes - IP	0.30
25.1	<b>TOTAL Recurring Contingencies</b>	<b>161.83</b>
<b>25.2</b>	<b>Non-Recurring Contingencies</b>	
25.2.1	<b>Works</b>	402.40
25.2.2	<b>Equipments including SWTL &amp; Furniture</b>	99.74
25.2.3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify) [Rs.13 Lakhs for Jeep and Rs.2.10 Lakhs for Two Wheelers]	
25.2.4	<b>Library</b> (Purchase of assets like books & journals)	1.00
<b>25.2</b>	<b>TOTAL Non-Recurring Contingencies</b>	<b>503.14</b>
<b>25.3</b>	<b>REVOLVING FUND</b>	<b>0.00</b>
<b>25.4</b>	<b>GRAND TOTAL</b>	<b>664.97</b>

## Action Plan 2017-18 – Summary of Technical Activities

### Krishi Vigyan Kendra: ICAR-TARALABALU KRISHI VIGYAN KENDRA, DAVANAGERE

1. Address of KVK with Phone, Fax and e-mail, Website (Give district map and indicate the location of the KVK)

Name and address of KVK with Phone, Fax and e-mail	: <b>ICAR- Krishi Vigyan Kendra</b> Kadalivana, LIC Colony Layout, BIET College Road, DAVANAGERE-577004, Karnataka Phone : 08192-263462, Fax : 08192-260969 E-Mail : <a href="mailto:dvgtkvk@yahoo.com">dvgtkvk@yahoo.com</a>
Website address of KVK date of last update	Website : <a href="http://taralabalukvk.com">taralabalukvk.com</a>



## 2. Operational area / Cluster villages details

Taluk/ Block	Name of cluster villages	Major crops & enterprises	Major problems identified in each crop / enterprise	Proposed type of interventions
Harihara	Bhanuvalli	Paddy	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Increased cost of production</li> <li>• No mechanization in transplanting</li> <li>• Weed management</li> </ul>	<ul style="list-style-type: none"> <li>• FFS</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method demonstration</li> </ul>
Harapanahalli Jagaluru Channagiri	Hallikere Sattur Kanchikere Bilichod Katenahalli Doddabbigere Siddanamatha	Maize+ Redgram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No intercropping of Redgram</li> <li>• Use of local variety of Redgram (50%)</li> <li>• No INM</li> <li>• Erratic rainfall</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method Demonstration</li> </ul>
Harapanahalli	Hallikere Sattur Kanchikere	Finger millet (Ragi)	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Non- availability of HYV for late Kharif</li> <li>• No seed treatment with bio- fertilizers</li> <li>• Improper nutrient management</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method Demonstration</li> </ul>

Harapanahalli	Chigateri Hunsehalli Sasvehalli	Foxtail millet (Navane)	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Non- availability of HYV</li> <li>• No seed treatment with bio- fertilizers</li> </ul>	<ul style="list-style-type: none"> <li>• OFT</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method Demonstration</li> </ul>
Harapanahalli  Honnali	Chigateri Myduru  Rameshwara	Bengal gram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment with bio fertilizers</li> <li>• Non-availability of HYV</li> <li>• Improper nutrient management</li> <li>• Pod borer, Wilt</li> </ul>	<ul style="list-style-type: none"> <li>• FLD/OFT</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method demonstration</li> </ul>
Harapanahalli  Honnali	Chigateri Myduru  Rameshwara	Sunflower	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Improper nutrient management</li> <li>• Improper pest and disease management</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> <li>• Method demonstration</li> </ul>
Harihara	Belludi Bhanuvally Bannikodu	Paddy	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment</li> <li>• Incidence of blast, stem borer, sheath blight and brown plant hopper</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Method Demonstration</li> <li>• Field day</li> </ul>

Davanagere	Parashurampura Annapura	Redgram	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No seed treatment with biofertilizers</li> <li>• Use of local varieties</li> <li>• Incidence of pod borer &amp; wilt</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Group discussion</li> <li>• Training</li> <li>• Field visit</li> <li>• Method Demonstration</li> <li>• Field day</li> </ul>
Jagaluru	Bilchodu Katenahalli	Cotton	<ul style="list-style-type: none"> <li>• Improper nutrient management</li> <li>• Square dropping</li> <li>• Leaf reddening</li> <li>• Improper spacing</li> <li>• Sucking pests and Pink boll worm</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Diagnostic</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
Davanagere  Honnali	Parashurampura  Rameshwara Annapura and Belagutti	Tomato	<ul style="list-style-type: none"> <li>• Incidence of fruit borer, leaf minor, blight, powdery mildew and blight</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Diagnostic</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
Honnali	Rameshwara Nyamathi	Sorghum	<ul style="list-style-type: none"> <li>• Imbalanced nutrient management</li> <li>• Soil moisture stress</li> <li>• Rust and Stem borer</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>

Honnali	Rameshwara Govinakovi	Black gram	<ul style="list-style-type: none"> <li>• Improper Nutrient Management</li> <li>• Single crop per year in paddy growing areas</li> <li>• Mono cropping</li> <li>• Micronutrient deficiency</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
Honnali	Rameshwara Nyamathi	Wheat	<ul style="list-style-type: none"> <li>• Imbalanced nutrient management</li> <li>• Soil moisture stress</li> <li>• Rust and Stem borer</li> <li>• Use of local varieties susceptible for rust and lodging.</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
Davanagere	Parashuramapura	French Bean	<ul style="list-style-type: none"> <li>• No income in early stage of arecanut</li> <li>• Poor soil health</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Group discussion</li> <li>• Field visit</li> <li>• Field day</li> </ul>
Cannagiri	Doddaabbigere	Mango	<ul style="list-style-type: none"> <li>• Flower dropping</li> <li>• Low yield</li> <li>• Uneconomical trees</li> <li>• Age old orchards</li> </ul>	<ul style="list-style-type: none"> <li>• EDP</li> <li>• Training</li> <li>• Field visit</li> <li>• Group meeting</li> </ul>
Honnli  Davanagere  Channagiri	Rameshwara Arundi  Parusharamapura Anaberu Mayakonda  Doddabbigere Santhebennur Medikere	Arecanut	<ul style="list-style-type: none"> <li>• Hidimundige syndrome</li> <li>• Improper nutrient management</li> <li>• Button shedding and nut drop</li> <li>• No proper drainage</li> <li>• No intercrop</li> <li>• Excess application of tank silt</li> <li>• Higher incidence of bacterial leaf stripe</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field visit</li> <li>• Field day</li> </ul>



Davanagere  Harihara	Parusharampura Anaberu Kandgal  Belludi Bhanuvalli	Coconut	<ul style="list-style-type: none"> <li>• Coconut Black Headed Caterpillar and Mites</li> <li>• Poor utilization of interspace</li> <li>• Dropping of immature nuts</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Awareness campaign</li> <li>• Vocational training on palm climbing.</li> </ul>
Honnali  Harapanahalli  Jagaluru	Malligenahalli Belagutti Rameshwara  Hallikere  Bilichod Katenahalli	Onion	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• Improper nutrient management</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• OFT</li> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field day</li> </ul>
Davanagere	Parusharampura Anaberu Kandgal	Banana	<ul style="list-style-type: none"> <li>• Low yield</li> </ul>	<ul style="list-style-type: none"> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field visit</li> </ul>
Davanagere	Davanagere Urban	Terrace gardening	Nutritional insecurity	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Method Demonstration</li> <li>• Field visit</li> <li>• Field day</li> </ul>
Harihar	Belludi, Bannikodu Shamshipura Banuvalli.	Rearing Crossbred Cattle and Buffaloes.	<ul style="list-style-type: none"> <li>• Infertility/Repeat breeding &amp; weakness in Crossbred cattle.</li> <li>• Clean and Quality milk production.</li> </ul>	<ul style="list-style-type: none"> <li>• FLD</li> <li>• Training</li> <li>• Field visit</li> <li>• Field day</li> </ul>

Harihara	Belludi, Bannikodu, Shamshipura Banuvalli.	Use of Rice straw as a major source of energy for livestock & Cultivation of Napier x fodder varieties	<ul style="list-style-type: none"> <li>Fodder scarcity, Low nutrients yield, Palatability is less at maturity stage leading to rejection of fodder, high content of Silica &amp; oxalic acid.</li> </ul>	<ul style="list-style-type: none"> <li>FLD</li> <li>Training</li> <li>Field visit</li> <li>Field day</li> </ul>
Harapanahalli	Halliere			
Hariahra	Belludi Bannikodu Shamshipura Banuvalli	Rearing of Small Ruminants like Sheep & Goats.	<ul style="list-style-type: none"> <li>Lack of grazing lands, Lower body weight gain and parasitic infestation. Infectious diseases (foot rot) in small ruminants.</li> </ul>	<ul style="list-style-type: none"> <li>FLD</li> <li>Training</li> <li>Field visit</li> <li>Field day</li> </ul>
Hariahra	Belludi Bannikodu Shamshipura Banuvalli	Rearing of local poultry birds.	<ul style="list-style-type: none"> <li>Lower body gain &amp; Less numbers of eggs in Poultry birds</li> </ul>	Training programme
Davanagere	Davanagere	Fisheries	<ul style="list-style-type: none"> <li>Low yield and Income</li> </ul>	<ul style="list-style-type: none"> <li>FLD</li> <li>Field visit</li> <li>Field day</li> </ul>
Davanagere	Siddanuru Mayakonda Tumbigere	Pomegranate	<ul style="list-style-type: none"> <li>Low yield</li> <li>Incidence of pest and diseases</li> </ul>	<ul style="list-style-type: none"> <li>Workshop</li> </ul>
Harihara	Belludi	Betelvine	<ul style="list-style-type: none"> <li>Incidence of wilt</li> </ul>	<ul style="list-style-type: none"> <li>Seminar</li> </ul>

### 3. Details of technological interventions

#### 3.1 Technology Assessment

Sl. No.	Crop/ enterprise	Title of intervention	Technological options	No. of trials	Total cost involved (Rs.)	Team members involved
1	Foxtail Millet	Assessment of foxtail millet varieties for higher yield under rainfed	<b>T1 : HMT-100-1</b> ➤ <b>HYV</b> ➤ Bio-fertilizers- <i>Azospirillum</i> , PSB and VAM @ 500g each ➤ Spraying of WSF (KNO <sub>3</sub> )	03	4,050-00	SMS (Agronomy, Plant Protection, Soil Science) & SS&H
			<b>T2: SiA-2644 (Sri Laxmi)</b> ➤ <b>HYV</b> ➤ Bio-fertilizers- <i>Azospirillum</i> , PSB and VAM @ 500g each ➤ Spraying of WSF (KNO <sub>3</sub> )			
			<b>T3 : DhFT-109-3</b> ➤ <b>seeds -3kg /trial</b> ➤ Bio-fertilizers- <i>Azospirillum</i> , PSB and VAM @ 500g each ➤ Spraying of WSF (KNO <sub>3</sub> )			
2	Bengalgram	Assessment of Bengalgram varieties for higher yield.	T <sub>1</sub> : JG – 11 variety (Breakdown of wilt – 20%) -	04	15,390-00	SMS (Agronomy, Plant Protection, Soil Science,) and SS&H
			T <sub>2</sub> : JAKI – 9218 variety (Resistant to wilt & drought),			
			T <sub>3</sub> : GBM-2 variety (Resistant to wilt & drought),			
			T <sub>4</sub> : NBeG-3 (ANGRAU)			

3	Onion	Role of sulphur in improving the productivity of onion	T <sub>1</sub> –Application of 100:75:20 kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha along with FYM + remaining ICM practices.	05	9,050-00	SMS (Soil Science, Horticulture)
			T <sub>2</sub> – RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha) along with FYM + remaining ICM practices.			
			T <sub>3</sub> - RDF (125:50:125 Kg N:P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O/ha) along with FYM and 45kg sulphur through elemental sulphur (Bentonite) + remaining ICM practices.			
4	Onion	Assessment of Onion Varieties for Rabi Season	1. Nyamathi Local	04	18,000-00	SMS (Horticulture) SMS(Soil Science) SMS(Plant protection) SSH
			2. Arka Nikethan			
			3. Bhima Shakthi			
			4. NHRDF Red (Line-28)			

**3.2 Frontline Demonstrations**

<b>Category/ Crop or enterprise</b>	<b>Prioritized problem</b>	<b>Technologies Demonstrated</b>	<b>No. of Demo</b>	<b>Area (ha)/ Units</b>	<b>Total cost involved (Rs.)</b>	<b>Team members involved</b>
Maize+Redgram	• Low yield	Integrated Crop Management in Maize + Redgram	30	12	39,000-00	SMS (Agronomy Plant Protection) SS&H
Paddy	• Low Yield	Integrated pest and disease management in paddy	25	10	13,750-00	SMS (Plant Protection, Agronomy, Agricultural Extension, Soil Science) & SS&H
Wheat	• Low Yield	Integrated crop management in wheat (UAS-347).	20	08	38,000-00	SMS (Soil Science, Agronomy, Plant Protection,)
Finger Millet	• Low Yield	Integrated Crop Management in Finger Millet (ML-365)	30	12	24,000-00	SMS (Agronomy, Plant Protection, Soil Science and Animal Science) SS &H
Sorghum	• Low Yield	Integrated crop management in sorghum (SPV-2217).	25	10	31,250-00	SMS (Soil Science, Plant Protection, Agronomy and Agricultural Extension)
Cotton	• Low Yield	Integrated crop management in cotton	25	10	38,750-00	SMS (Plant Protection, Agronomy, Agricultural Extension, Soil Science) & SSH
Tomato	• Low Yield	Integrated Crop Management in tomato	15	06	38,250-00	SMS (Plant Protection, Horticulture, Agricultural Extension, Soil Science) & SSH

Onion	<ul style="list-style-type: none"> <li>• Low Yield</li> </ul>	Demonstration of yield & income potential of Onion, Bhima Super	05	02	20,000-00	SMS (Horticulture, Soil Science) & SSH
French bean	<ul style="list-style-type: none"> <li>• No income in early stage of arecanut</li> <li>• Poor soil health</li> </ul>	Income generation through french bean in young arecanut garden	10	04	20,200-00	SMS (Soil Science, Horticulture, PP)
Coconut	<ul style="list-style-type: none"> <li>• Low yield</li> </ul>	Integrated Crop Management in Coconut	20	08	25,800-00	SMS (Horticulture, Soil Science) & SSH
Arecanut	<ul style="list-style-type: none"> <li>• Low yield</li> </ul>	Integrated Crop Management in Arecanut	20	08	34,200-00	SMS (Horticulture, Soil Science, Plant protection) & SSH
Terrace Gardening	<ul style="list-style-type: none"> <li>• Nutritional Insecurity</li> </ul>	Demonstration of Terrace garden in Davanagere city	10	10	15,500-00	SMS (Horticulture, Plant protection) & SSH
Dairy	<ul style="list-style-type: none"> <li>• Infertility/Repeat breeding/ Low milk production</li> </ul>	Integrated management in dairy animals	15	15	24,300-00	SMS(Animal Science, Agricultural Extn.), and SS&H
Sheep and goats	<ul style="list-style-type: none"> <li>• Lower bodyweight gain in semi-free range / free range (nomadic) conditions</li> </ul>	Total deworming and balanced nutrition in small ruminants for better performance	15	15	17,100-00	SMS(Animal Science, Agricultural Extn.), and SS&H
Dairy	<ul style="list-style-type: none"> <li>• Low lactation yield,</li> <li>• Dystokia, Retention of placenta, Uterine infections and lower body weight gain at puberty.</li> </ul>	Care and Management of Pregnant cows during dry period (Advanced pregnancy) and scientific management in raising crossbred calves.	15	15	32,550-00	SMS(Animal Science, Agricultural Extn.), and SS&H
Hydroponic fodder	<ul style="list-style-type: none"> <li>• Low milk yield</li> </ul>	Hydroponic fodder production to alleviate fodder scarcity	10	10	20,000-00	SMS(Animal Science, Agronomy), & SS&H
Fisheries	<ul style="list-style-type: none"> <li>• Low yield</li> </ul>	Integrated Management of composite Fish culture in ponds	10	10	30,500-00	SS&H, SMS (Animal Science)

**4. Target for mandated activities for the year 2017-18**

<b>S.</b>	<b>Activities</b>	<b>Target (2017-18)</b>
1.	On- farm trials (No. of technologies)	04
2.	Frontline Demonstrations (No.)	17
3.	Training of Farmers (Participants) Nos.	33 (810 Participants)
4.	Training of Extension Personnel (Participants in Nos.)	06 (165 Participants)
5.	Participants in Extension activities (in lakh)	1.58
6.	Production of Seed (in quintal)	3.5
7.	Planting material (Nos.)	27500
8.	Live-stock strains/ fingerlings (Nos)	10,00,000
9.	Kisan Mobile Advisory (KMA) (lakh farmers)	0.08
10.	Soil and Water Testing (samples in Nos)	2000

**5. Special Activities (NMOOP, NFSM, Skill Development, FFS, IFS, EDP etc.)**

<b>Activity or Programme</b>	<b>Physical details (no. of programmes, participants, area etc.)</b>	<b>Financial outlay (Rs.lakh)</b>	<b>Team members involved</b>
NMOOP	01 ( 10 ha)	67,500-00	SMS (Agronomy, Plant Protection, Soil Science) SS&H
NFSM	03 (30 ha.)	2,02,500-00	SMS (Agronomy, Plant Protection, Soil Science, Agricultural Extn.) SS&H
Skill Development Training	60 Participants	-	SMS (Horticulture, Animal Science, Agronomy,. Agricultural Extn.) SS&H
FFS	25	29,850-00	SMS (Agronomy, Plant Protection, Soil Science, Animal Science) SS&H
IFS	06	60,000-00	SMS (Agronomy, Plant Protection, Soil Science, Animal Science, Horticulture, Agricultural Extn) SS&H
EDP	05	28,500-00	SMS (Agricultural Extn, Horticulture) SS&H
Innovative Programme	100	30,000-00	SMS (Animal Science, Horticulture) and SS&H SS&H

**6. Externally funded Activities (continuing / expected during 2017-18):**

<b>Activity or Programme</b>	<b>Program duration</b>	<b>Funding agency</b>	<b>Physical details (no. of programmes, participants, area etc.)</b>	<b>Financial outlay (Rs.lakh)</b>	<b>Team members involved</b>
NICRA	On going since 2010-11	CRIDA, Hyderabad	208 families	15	SSH, SMS (ASc, Agronomy)
Bio Fuel Information and Demonstration Centre	On going since 2011-12	Govt. of Karanataka	12 trainings 10 awareness programmes	7.6	Programme Assistant (Lab Technician) SS&H

**7. SAC meeting month: December 2017.**