

**ZONAL PROJECT DIRECTORATE – ZONE VIII BANGALORE**  
**ACTION PLAN OF KVKs IN ZONE VIII FOR THE YEAR 2012-13**

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

1.	Name and address of KVK with Phone, Fax and e-mail, Website	:	Tara labalu Krishi Vigyan Kendra Kadavivana, LIC Colony Layout, B.I.E.T. College Road DAVANAGERE-577004 Karnataka Telephone : 08192-263462 Fax : 08192-260969 E-mail : <a href="mailto:dygtkvk@yahoo.com">dygtkvk@yahoo.com</a> .
2.	Name and address of host organization	:	Tara labalu Rural Development Foundation SIRIGERE-577541 Dist.: Chitradurga Phone: 08194 – 268829, 268842 Fax: 08194 – 268847 E – mail: <a href="mailto:trdf@taralabalu.org">trdf@taralabalu.org</a>
3.	Year of sanction	:	2004
4.	Name of agro-climatic zone	:	Zone – III, IV, VII Harapanahalli – Zone- III Davanagere, Harihar and Jagalur - Zone- IV Channagiri and Honnali – Zone-VII
5.	Major farming systems/enterprises  Population Farm families Agricultural Labourers	:	<b>Rainfed system:</b> Maize, Maize+Redgram, Ragi, Ragi+Horsegram, Greengram-Ragi, Minor millets, Jowar, Bengalgram , Redgram, Groundnut, Sunflower, Cotton, Mango. <b>Irrigated system:</b> Rice- Rice, Sugarcane, Arecanut, Banana, Coconut, Papaya, Vegetable crops, Fodder crops. <b>Enterprises:</b> Poultry, Dairy, Sheep/ Goat rearing, Fisheries, Vegetable nursery, Nursery  17,90,952 (2001 census) 2,19,988 1,70,138
6.	Soil type	:	Medium to deep black soils and Red sandy loam soil
7.	Annual rainfall (mm)	:	529 mm (2011), Normal 656.9 mm

**2. Details of staff as on date**

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Existing Pay band	Grade Pay	Date of joining	Permanent / Temporary	If vacant action plan for filling the post on permanent basis
1.	Programme Coordinator	Dr. Devaraja T.N.	Fisheries	37400-67000	9000	17-05-05	Per.	
2.	Subject Matter Specialist	Mr. Basavanagowda M.G.	Horticulture	15600-39100	5400	21-11-06	Per.	
3.	Subject Matter Specialist	Mr. Mallikarjuna B.O.	Agronomy	15600-39100	5400	09-01-08	Per.	
4.	Subject Matter Specialist	Dr. Jayadevappa G.K.	Animal Science	15600-39100	5400	29-01-08	Per.	
5	Subject Matter Specialist	Mr. Raghuraja J.	Agricultural Extension	15600-39100	5400	23-06-08	Per.	
6	Subject Matter Specialist	Mr. Prasanna Kumara N.	Plant Protection	15600-39100	5400	24-06-08	Per.	
7	Subject Matter Specialist	Dr. Pradeep H.M.	Soil Science	15600-39100	5400	25-06-08	Per.	
8	Programme Assistant	Vacant						
9	Computer Programmer	Mr. Santhosh B.	Computer	9300-34800	4600	05-09-08	Per.	
10	Farm Manager	Mr. Vijaya Kumar S.B.	Farm Manager	9300-34800	4600	23-06-08	Per.	
11	Accountant/Superintendent	Mr. Mallikarjuna S. Gudihindala	Assistant	15600-39100	5400	01-06-05	Per.	
12	Stenographer	Mrs. Mamatha H. Melmalagi	Stenographer Grade-III	5200-20200	2400	26-06-05	Per.	
13	Driver 1	Mr. N.M. Marulasiddaiah	Driver	5200-20200	2000	01-06-05	Per.	
14	Driver 2	Mr. S. Shivakumar	Driver	5200-20200	2000	01-06-05	Per.	
15	Supporting staff 1	Mr. B. Shivakumar	Grade-I	5200-20200	1800	01-06-05	Per.	
16	Supporting staff 2	Mr. S.E. Shivakumar	Grade-I	5200-20200	1800	01-06-05	Per.	

## 3. Details of SAC meeting conducted during 2011-12

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2012-13
01	29-04-2011	To encourage organic farming among farmers.	Conducted workshop on 'organic seed exchange fair' in which organically grown seeds (Agriculture crops, Horticulture crops) were exchanged by the farmers at free of cost (16-5-2011). Conducted 10 day training programme on 'Organic farming in Horticulture crops' to horticulture department officials (NPOF). KVK specialists delivered 6 guest lectures on organic farming on different occasions. Conducted workshop on 'Save traditional paddy' in collaboration with Sharana Muddana Savayava Krishikara Balaga, Kumbalore, where organically grown paddy seeds were distributed at free of cost. Preparation and usage of Dhashaparna was included in KVK trainings.	19-03-2012
		To develop format for collecting feed back from farmers after the training programme is over and to collect the farmers opinion.	Pre training and post training format developed and feedback is taken. Farmers opinion is taken in the training programmes.	
		To involve scientists from ARS, Kathalagere in KVK programmes	Scientist from ARS, Kathalagere are invited as resource persons in many KVK programmes like Agriculture Technology Week and workshops 'Paddy Seed Production', mechanization in paddy transplanting and also in important days of celebrations.	
		KVK should take lead role in solving pest and disease problems.	Last year KVK has conducted 3 FLD's on and 1 OFT on: 1. Integrated pest and disease management in Arecanut. 2. Snails management in Arecanut. 3. Integrated pest management in bengalgram and OFT an management of storage pests in pulses. Conducted Awareness Campaign on 'Black Headed Caterpillar in Coconut' in collaboration with Coconut Development Board, Bangalore and Department of Horticulture, Davanagere.	

			Diagnostic field visits are conducted to diagnose pest and disease problem along with Department of Horticulture and Agriculture. Guest lectures were given in field days organized by department of agriculture conducted workshop on betelvine pest and disease management .	
		To conduct need based trainings.	Conducted trainings on Azolla and Vermicompost Production in Siddanur village under NICRA project. 4 Azolla unit and 4 vermicompost unit established. Conducted soil sampling training and soil test campaign in Elehole, Harihar taluk based on the demand through PDO of Gram Panchayath.	
		Suggested to popularize the technologies of state agriculture technologies.	KVK conducting FLD's on the technologies developed by University of Agricultural Sciences, Bengaluru and Dharwad along with other state and central government institutions.	
		To conduct more number of entrepreneurship development programmes at village level for the benefit of women.	Conducted training on preparation of Sandle Sticks in Siddanur village under NICRA project.	
		To develop different types of nurseries at KVK farm.	Shade home and polyhouse were established in KVK farm with financial assistance from Department of Biotechnology, New Delhi following seedlings were produced and sold to farmers. Drumstick (PKM-1) 2549 numbers, Curry leaf (local) 477 seedlings, Citrus (Jagalore local) 363 seedlings, Mango (Alphanso) 4000 no's and Arecanut (local) 3000 no's and sold to 222 farmers.	
		To do more of publicity work for erythrina standards.	OFT on 'Gall wasp tolerant erythrina standards for betelvine' is continued for second year. Workshop conducted addressing the same problem under ATMA, 23 betelvine growers were participated, also conducted off campus training at Alur on 'Recent advances in production of betelvine' where in 30 growers were participated.	
		Papaya mealy bug has affected mulberry plantation and SMS (plant protection) to solve this problem.	Personnel from Sericulture Department has taken technical advice and brought parasitoid from PDBC, Bengaluru and released them in affected mulberry garden.	

		KVK to plan for Flagship programme	Flagship programmes for our KVK is 'Enhancing production and productivity in horticulture crops- specially Banana and Arecant'	
		To upload district profile of Davanagere in KVK website	Davanagere district profile 2011 is prepared and uploaded to KVK website: <a href="http://www.taralabalukvk.com">www.taralabalukvk.com</a>	
		Suggested to give advisory services based on soil test results.	Fertilizer application recommendations are made to all the farmers based on soil test report. In all 393 advisories were given in April-December 2011.	
		To Launch the NICRA project in a big way inviting politicians, SAC members, progressive farmers and public representatives.	NICRA project was launched on 20 <sup>th</sup> May 2011. His Holiness Dr. Shivamurthi Shivacharya Mahaswamiji inaugurated the office at Siddanur, Davanagere taluk, Member of Parliament Sri. G.M. Siddeshwara, Zilla Panchayth, Taluk Panchayath and Gram Panchayath elected representatives were present. SAC members, Development Department Officials and Progressive farmers from nearly villages were present.	
		Suggested to carryout NICRA works more systematically and generate good data on scientific liens.	Works under NICRA projects were carried out in systematic way, data related to weather (Temperature, wind speed, open pan evaparimeter), Implements usage data, works of natural resource management, Data related to nursery and sericulture entrepreneurship are recorded in systematic way.	
		To visit Hirehalli KVK to collect ideas related to NICRA.	Visited KVK Tumkur along with 40 farmers from Siddanur village to see the activities under NICRA.	
		To give prestige, profit and treat him as your partner to farmers.	New KVK name board has been installed in administrative building depicting prestige, profit and as partner to farmers.	
		Suggested to give more importance to mechanization in Agriculture and to provide more information through custom hiring centre	Under NICRA, seed cum fertilizer drill, post hole digger, bund farmer, weed cutter, chain pully, water lifting pump and others are provided to Siddanuru farmers through custom hiring centre. 6 paddy transplanters were provided by Department of Agriculture and 600 acres has been transplanted and KVK specialists participated as resource persons. Cycle weeders, Groundnut Strippers and Weeders ( 2 each) were given to SHG members under DBT project and same has been displayed and demonstrated in KVK.	

		Suggested to purchase coconut climber from Coimbatore KVK and popularize among farmers.	Coconut climber purchased by the KVK and demonstrated to farmers	
		Suggested to prepare and attach village coverage map to KVK website	KVK village coverage map prepared for the year 2005 to 2010 and attached to KVK website.	
		KVK to concentrate an seed production / planting material production in big way.	<p>KVK has produced and distributed the following seeds / planting materials (April -2011 to December – 2011) to the farmers.</p> <ol style="list-style-type: none"> <li>1. Paddy (Nellur Sona)- 30 kg</li> <li>2. Redgram (BRG-1) – 80 kg</li> <li>3. Bhendi (Arka anamika) – 92 kg</li> <li>4. Cowpea (C- 152)-30 kg</li> <li>5. Castor- 30 kg</li> <li>6. Drumstick (PKM-1)- 1670 no.s</li> <li>7. Curry leaf- 328 no.s</li> <li>8. Mango (Alphonso)- 1808 no.s</li> <li>9. Papaya – 8 no.s</li> <li>10. Jack fruit- 16 no.s</li> <li>11. Lemon – 860 no.s</li> <li>12. Arecanut (Thirthahalli local)- 3245 no.s</li> <li>13. Sapota- 58 no.s</li> <li>14. Azolla- 35.5 kg</li> <li>15. Ornamental fishes- 4810 no.s</li> <li>16. Ornamental palm – 24 no.s</li> <li>17. DHN-6 / Co-3- 77150 no.s</li> <li>18. Napier- 9500 no.s</li> </ol>	
		Suggested to use drudgery reducing equipments like fodder cutting and milking machine in animal science activity	Power operated fodder cutting machine and single cow milking machine were purchased with the financial assistance from Department of Bio-technology, New Delhi and are used for demonstration purpose.	

		Suggested to encourage integrated farming to avoid losses because Indian agriculture is characterized by complex, diversified and risk prone features.	To encourage integrated farming system among farmers following units were established with the financial assistance from NICRA and DBT project. Cattle shed – 1 unit sheep and goat shed-3 units, azolla production units-4 no's, vermicompost production units-7 no's. Encouraged sericulture farming -1 farmer. Vegetable seed nursery production unit-1 farmer, fish pond unit-1 farmer. Fodder cutting machine-2 units, Zero energy cool chamber-1 unit.	
		Suggested to establish slatted stall feeding in sheep / goat production	Established stall feeding in sheep with 15 sheep's and it is planned to purchase 2 rams from satara.	
		Suggested to use Area Specific Mineral Mixture (ASMM) in repeat breeders.	Area Specific Mineral Mixture is distributed among farmers in the FLD programmes conducted. Also farm advisory services given to farmers in this regard.	
		A cow with 10 cents area of fodder area concept should be implemented	Encouraged more than 100 farmers to grow fodder varieties and distributed fodder slips from our demo unit especially napier (DHN-6) and Guinea Grasses.	
		Suggested to implement portable carp hatchery in KVK	Portable carp hatchery was inaugurated on 21-02-2012 by Dr. S. Ayyappan, Director General, ICAR, New Delhi.	
		Suggested to purchase agricultural implements, under NICRA project, which are most useful to the village	Purchased 22 such implements / equipments after discussion with farmers of NICRA village and the implements are put to use through custom hiring centre.	

#### 4. Capacity Building of KVK Staff

##### A. Plan of Human Resource Development of KVK personnel during 2012-13

S. No	Category	Area of training	Institution proposed to attend	Justification	Details of trainings attended during 2011-12
1.	Programme Coordinator	Fisheries- Fresh water pear culture	CIFA, Bhuwaneshwara / CIBA, Chennai	Enhancing farm income in inland areas through non agri enterprises	None
		Aquaculture breeding carp	FFTC, Lakkavalli	Production of quality fish seeds.	None
		Personnel management	MANAGE, Hyderabad	Efficient management of human resources	None
2.	SMS1(Agronomy)	Improved production technology and new agronomic practices in oilseeds	DOR Hyderabad	Oilseeds area is decreasing mainly due to low yield and if the yields are high, we can increase the area	-
		Dry land techniques under rainfed areas to improve the yield	CRIDA and ICRISAT, Hyderabad	Area under rainfed crops is more and from last four years the rainfall is low	-
		Effect of climate on production and productivity of field crops	CRIDA	It will be useful in the preparation of the contingent crop planning and weather / climate based recommendation.	



3.	SMS2 (Horticulture)	Promotion of commodity interest groups and federations	MANAGE, Hyderabad	To uplift the knowledge and skill on formation of commodity groups specially in banana and vegetables	Attended National workshop on dissemination of Horticulture technologies through KVK personnel conducted by IIHR, Bengaluru on 18-19 <sup>th</sup> January 2012.
		Research evaluation and impact assessment	NAARM, Hyderabad	To study the types and utility at different methods of impact assessments of demonstrated technologies.	
		Production of value added products from banana	NRCB Tiruchirappalli Tamil Nadu	It will help in increasing the knowledge on value addition.	
4.	SMS3 (Plant Protection)	IPM in oilseeds and pulses	DOR, Hyderabad	Reduction in yield due to non adoption of IPM practices	
		Hands on training on IPDM	UAS, Bengaluru	Due to non adoption of IPDM practices decrease in yield and area of agriculture and horticulture crops.	
5	SMS4 ( Agri. Extension)	Participatory Impact Monitoring Analysis	ZPD, Bengaluru	To conduct impact studies of KVK activities.	Enhancing skills in ICT based DSS for agricultural marketing and agri business orientation of research and extension functionaries. 5-9 September, 2011 MANAGE, Hyderabad
6	SMS5				
7	SMS6				

8	Lab Technician			
9	Computer Programmer			
10	Farm Manager			
11	Administrative			

**B. Cross-learning across KVKs**

S. No	Name of the KVK proposed	Purpose	Mode of learning
1	Hirehally KVK, Tumkur	Vegetable special production	Training
2	KVK, Shimoga	Sugarcane raising Nursery technology and bud chipping techniques SMS (Agronomy)	Method demonstration Visit to Nursery and farmers field.
3.	KVK, Hiriyur	Management of bacterial blight of pomegranate	Field visit to progressive farmers field.
4.	KVK, Kannur	Secondary agriculture	Visiting KVK & SHGs
5.	KVK, Gadag	Value addition in Horticulture crops	Visiting KVK and Training.

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

S.No.	Name of the KVK included in the cluster	Nature of sharing		
		Knowledge/expertise	Resources (facilities and products)	Activities
1.	Chitradurga	(From TKVK) Fisheries veterinaries (from other KVK) Dry land horticulture	Fish seeds Fodder slips	Exposure visit Trainings
2.	Haveri	(From Haveri KVK) Pulses seed production	Seeds	Seminar Training Farm visits
3.	Shimoga	(From Shimoga KVK) Expert in arecanut, paddy Special expert (From our KVK) Fisheries	- Seeds / Seedlings -	Visits Workshop Seminar Seminar

## 6. Plan of Work for 2012-13

## A. Operational areas details proposed

S.No	Taluk/ block	Name of cluster villages		Major crops & enterprises being practiced	Major problems identified	Identified thrust areas based on problems	If existing from which year Please state
		Existing	New				
1	Harihara,	-	Jigli Shamshipura Holesirigere	Hybrid Maize	<ul style="list-style-type: none"> <li>• Stem borer is severe in these area where the sowing taken up in the first and second week of June.</li> <li>• No intercropping and poor nutrient status of the soil.</li> <li>• Scattering rainfall pattern and time of sowing.</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated crop management</li> <li>• Introduction of new hybrids resistant to stem borer and downey mildew</li> </ul>	New village Last 4 years
				Paddy	<ul style="list-style-type: none"> <li>• Poor plant population.</li> <li>• Excessive use of chemical fertilizer has lead to pest and disease problems.</li> <li>• Stem borer at nursery.</li> <li>• Nematode problem. (Rice root knot)</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated crop management</li> <li>• Mechanization in transplanting paddy.</li> </ul>	New village
				Cotton	<ul style="list-style-type: none"> <li>• Improper spacing and 2 packets of seeds used for one acre.</li> <li>• Leaf reddening.</li> <li>• Flower drop, square drying.</li> <li>• Mealy bug</li> <li>• Lint quality is poor due to poor grading.</li> </ul>	<ul style="list-style-type: none"> <li>• Nursery rearing techniques.</li> <li>• Integrated crop management.</li> </ul>	New village

	Harihara	Kumbalore Nittur Belludi	Hanagawadi Kondajji Banuvalli	Betelvine	<ul style="list-style-type: none"> <li>• Incidence of gall wasp to standard plants.</li> <li>• Poor quality standards</li> </ul>	<ul style="list-style-type: none"> <li>• Popularization of gall wasp tolerant <i>Erythrina</i> sp. standards</li> </ul>	Since 2006
				Coconut	<ul style="list-style-type: none"> <li>• Dropping of nuts</li> <li>• Heavy incidence of CBHC</li> </ul>	<ul style="list-style-type: none"> <li>• Root feeding of TNAU coconut tonic</li> <li>• INM in coconut</li> </ul>	Since 2006
		Halebislerly	Yelehole	Rice	<ul style="list-style-type: none"> <li>• Rice root knot nematods</li> <li>• Neck blast</li> </ul>	<ul style="list-style-type: none"> <li>• INM</li> <li>• ICM</li> </ul>	-
		Kondajji	-	Velvet beans	<ul style="list-style-type: none"> <li>• Weed infestation</li> <li>• Mixture and soil fertility conservation</li> </ul>	<ul style="list-style-type: none"> <li>• INM</li> </ul>	2010
2	Davanagere	Siddanuru B. Kalpanahalli Bisaleri	Agasanakatte Kodaganur Annapura Mayakonda	Banana	<ul style="list-style-type: none"> <li>• Lower bunch weight</li> <li>• Incidence of sigatoka leaf spot.</li> <li>• Lack of good quality suckers for replanting.</li> </ul>	<ul style="list-style-type: none"> <li>• High density planting in banana</li> <li>• Use of banana special to increase bunch weight.</li> </ul>	Since 2008
				Arecanut	<ul style="list-style-type: none"> <li>• Nut splitting and dropping</li> <li>• Hidimundige syndrome</li> <li>• Poor yield due to water stagnation.</li> </ul>	<ul style="list-style-type: none"> <li>• Popularization of green manure crops.</li> <li>• Integrated nutrient management in arecanut</li> </ul>	Since 2005

	Davanagere			Coconut	<ul style="list-style-type: none"> <li>• Dropping of nuts</li> <li>• Incidence of mites and CBHC</li> <li>• Low yield potential</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated nutrient management in coconut.</li> <li>• Use of TNAU coconut tonic</li> <li>• Popularization of green manure crops</li> </ul>	Since 2007
		-	Kodaganur Kabbur	Sunflower	<ul style="list-style-type: none"> <li>• Bud necrosis and black headed hairy caterpillar.</li> <li>• No seed treatment</li> <li>• Improper nutrient management</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated pest and disease management in sunflower</li> </ul>	-
		-	Kondajji Naganur Rampura	Paddy Sugarcane	<ul style="list-style-type: none"> <li>• Incidence of early shoot borer</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated pest management</li> </ul>	-
		Siddanur Tanda	-	Tomato	<ul style="list-style-type: none"> <li>• Early and late blight</li> </ul>	<ul style="list-style-type: none"> <li>• IDM</li> <li>• INM</li> </ul>	2010
3	Jagalur	Bidarikere	Hireharakere	Ragi	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• No improved varieties and poor knowledge on short and medium duration varieties.</li> <li>• Poor nutrient management</li> <li>• No seed treatment and poor germination.</li> <li>• 15 to 20 kg seed were used for sowing per acre.</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated crop management</li> </ul>	2011 and New village.

				Groundnut	<ul style="list-style-type: none"> <li>• Poor yield due to local variety (TMV-2).</li> <li>• Improper nutrient management (no Gypsum application).</li> <li>• High seed rate and no seed treatment</li> <li>• No micronutrient sprays</li> </ul>	Integrated crop management	New village and Alur (2010)
Jagalur	Bilichodu	Mallapura Chikbantana halli	Dry land Horticulture	<ul style="list-style-type: none"> <li>• Uneven distribution of rainfall</li> <li>• Low water table</li> <li>• Poor yield in fruit crops</li> </ul>	<ul style="list-style-type: none"> <li>• Soil and water conservation techniques like contour bunding, terrace bunding mulching etc.</li> <li>• Dry land horticulture</li> <li>• Horti-silvi-pasture system</li> </ul>	Since 2007	
	Kalledevarapura	-	Maize Bengalgram	<ul style="list-style-type: none"> <li>• No seed treatment and soil application with trichoderma</li> <li>• Higher incidence of pod borer, root rot and wilt</li> </ul>	<ul style="list-style-type: none"> <li>• IPDM in bengalgram</li> </ul>	2011	
	-	Bilichodu	Redgram	<ul style="list-style-type: none"> <li>• Pod borer and wilt</li> <li>• Use of local variety.</li> </ul>	<ul style="list-style-type: none"> <li>• ICM</li> </ul>	-	

4.	Pandomatti Harosagar Daginakatte	Santebennur Medikere Kyathanahalli	Mango	<ul style="list-style-type: none"> <li>• Alternate bearing</li> <li>• Mango stem borer incidence</li> <li>• Poor fruit set</li> </ul>	<ul style="list-style-type: none"> <li>• Use of growth regulator</li> <li>• Use of healer cum sealer technology.</li> <li>• Use of mango special.</li> </ul>	Since 2006
			Mango	<ul style="list-style-type: none"> <li>• Incidence of shoot/trunk borer</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated pest management</li> </ul>	2010
			Areanut	<ul style="list-style-type: none"> <li>• Hidimundige</li> <li>• Black rot</li> <li>• Poor drainage system</li> </ul>	<ul style="list-style-type: none"> <li>• Use of green manure crops.</li> <li>• Better drainage facilities.</li> <li>• Integrated nutrient management</li> </ul>	Since 2006
		Pandomatti	Banana	<ul style="list-style-type: none"> <li>• Low bunch weight</li> <li>• Improper micronutrient management</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated nutrient management</li> </ul>	Since 2006
	Harosagara Daginakatte Basavapatna	-	Areanut Paddy	<ul style="list-style-type: none"> <li>• Higher incidence of hidimundige in Areanut</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated pest management</li> </ul>	2008
	Devarahalli	Chikkadevanahalli	Banana	<ul style="list-style-type: none"> <li>• Lesser bunch weight due to micronutrient deficiency.</li> <li>• Improper nutrient management.</li> </ul>	<ul style="list-style-type: none"> <li>• INM</li> <li>• IDM</li> </ul>	2010
	Mugalihalli	Doddabbigere	Mango	<ul style="list-style-type: none"> <li>• Flower and fruit drop</li> <li>• Lower productivity</li> </ul>	<ul style="list-style-type: none"> <li>• INM</li> </ul>	2010

5	Honnali	Arakere Taraganahalli	Arakere Kudurekonda Sasivehalli Benakanahalli	Vegetable	<ul style="list-style-type: none"> <li>• Use of local varieties.</li> <li>• Micronutrient deficiencies.</li> <li>• Poor harvesting technique</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction of HYV in vegetable crops.</li> <li>• Popularization of vegetable special.</li> <li>• Harvesting and grading techniques.</li> </ul>	Since 2000
				Nutritional garden	<ul style="list-style-type: none"> <li>• Imbalanced diet.</li> <li>• Poor quality vegetables in mid day meals in schools.</li> </ul>	<ul style="list-style-type: none"> <li>• Popularization of nutritional garden in school premises</li> </ul>	Since 2008
6	Harapanahalli	Budihal	E-Bevinahalli Shivapura	Dry land Horticulture	<ul style="list-style-type: none"> <li>• Erratic rainfall.</li> <li>• Poor water conservation techniques.</li> <li>• Deep water table</li> </ul>	<ul style="list-style-type: none"> <li>• Soil and water conservation.</li> <li>• Introduction of drought tolerant fruit crops.</li> <li>• Popularization of agro-forestry system.</li> </ul>	Since 2006
		Huchingidurga Camp		Navane	<ul style="list-style-type: none"> <li>• Use local varieties</li> <li>• Low yield</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated crop management</li> </ul>	Since 2009
		Budhihal	Anjigere	Jowar	<ul style="list-style-type: none"> <li>• Use of local variety</li> <li>• No seed treatment</li> <li>• Incidence of stem borer</li> </ul>	<ul style="list-style-type: none"> <li>• Integrated crop management in jowar</li> </ul>	Since 2005



Harapanahalli (Kambathalli Block)	_	Kambathalli Punamgatta Nandikamba Hunsekatte Daggibasapura Hutchangidurga	Cattle and buffalo rearing Sheep and Goats rearing. Poultry birds rearing inbackyard	<ul style="list-style-type: none"> <li>• Repeat breeding problems / uterine prolapse.</li> <li>• Lower body weight gain due to worms problem (worm load).</li> <li>• Blue tongue disease.</li> <li>• Lower body weight gain.</li> </ul>	<ul style="list-style-type: none"> <li>• Nutritional deficiencies.</li> <li>• Deworming and disease.</li> <li>• Breeding.</li> </ul>	Since 2008
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**B. Prioritized problems and KVK interventions proposed**

Crop/ enterprise	Taluk/ block	Prioritized problems	Technologica l solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programme s	Production of technology inputs
Velvet beans	Harihar	<ul style="list-style-type: none"> <li>• Weed infestation</li> <li>• Moisture conservation</li> <li>• Soil fertility conservation</li> </ul>	Intercropping of velvet beans in plantation crops	√	-	-	√	√	√
Tomato	Davanagere	<ul style="list-style-type: none"> <li>• Fruit cracking</li> <li>• Improper micronutrient management</li> </ul>	Integrated crop management in Tomato	-	-	√	√	√	√

Redgram	Jagaluru	<ul style="list-style-type: none"> <li>• Use of local varieties</li> <li>• Improper nutrient management</li> <li>• Pod borer and wilt</li> </ul>	Integrated crop management in Redgram	-	-	√	√	-	-
Rice	Harihar	<ul style="list-style-type: none"> <li>• No seed / seedling treatment with bio fertilizers.</li> <li>• Less micronutrient application</li> </ul>	Integrated crop management in Rice	-	-	√	√	-	-
Banana	Channagiri	<ul style="list-style-type: none"> <li>• Lower bunch weight due to micronutrient deficiency.</li> <li>• Improper nutrient management</li> </ul>	Integrated nutrient management in Banana	-	-	√	√	-	√
Mango	Channagiri	<ul style="list-style-type: none"> <li>• Flower and fruit drop</li> <li>• Lower productivity</li> </ul>	Foliar application of mango special to increase productivity in mango	-	-	√	√	-	√

Banana	Channagiri	<ul style="list-style-type: none"> <li>• Lower productivity</li> </ul>	Enhancement of bunch size in banana	√	-	-	√	√	√
		<ul style="list-style-type: none"> <li>• Improper nutrient management</li> </ul>	Nutrient management in banana through foliar spray and bunch feeding techniques to enhance productivity in banana	-	-	√	√	√	-
Maize	Harihar Jigli Shamshipura	<ul style="list-style-type: none"> <li>• Stem borer and downy mildew</li> <li>• No intercropping and poor nutrient status of soil.</li> <li>• Weed menace</li> </ul>	Integrated crop management in maize ( NAH-1137 NAH-2049) + BRG- 1/ 2	Weed management in hybrid maize	-	Integrate d crop management practices in hybrid maize	√	√	-
Paddy	Harihar Jigli Shamshipura	<ul style="list-style-type: none"> <li>• Reduced number of seedling / sq. mt ( 30-40 No.s)</li> <li>• Weed menace</li> <li>• Poor management of water</li> </ul>	Mechanization in paddy transplanting	-	-	√	√	√	-

Ragi	Jagaluru Biderekere	<ul style="list-style-type: none"> <li>Poor quality fodder</li> <li>Low yield</li> <li>No micronutrient and bio fertilizer application</li> </ul>	Integrated crop management practices in high yielding variety in Ragi (KMR-301 and GPU-66)	-	-	√	√	√	-
Navane	Harapanahalli	<ul style="list-style-type: none"> <li>Use of local varieties</li> </ul>	Integrated crop management in navane (HMT-100-1)			√	√	√	-
Jowar	Harapanahalli	<ul style="list-style-type: none"> <li>Use of local varieties</li> <li>No seed treatment</li> </ul>	Integrated crop management (M-35-1)			√	√	√	√
Cotton	Harihar Jigli Jagaluru Biderekere	<ul style="list-style-type: none"> <li>Improves spacing and higher seed rate</li> <li>Sucking pest</li> <li>Mealy bug</li> <li>Square drying</li> <li>Flower dropping</li> <li>Leaf reddening</li> </ul>	Integrated crop management practices in cotton	-	-	√	√	√	-
Tomato	Davanagere	<ul style="list-style-type: none"> <li>Poor yield of local varieties.</li> <li>Incidence of leaf curl virus / wilt.</li> </ul>	Use of resistant hybrids varieties with good yield potential	-	-	√	√	√	-

Coconut	Harihar	<ul style="list-style-type: none"> <li>• Dropping of nuts</li> <li>• Incidence of mites and CBHC</li> </ul>	Use of TNAU coconut tonic to strengthen coconut palms	√	-	-	√	√	√
Betelvine	Harihar	<ul style="list-style-type: none"> <li>• Incidence of gall wasp to standard plants</li> </ul>	Use of resistant standards for gall wasp	√	-	-	√	√	-
French bean	Davanagere	<ul style="list-style-type: none"> <li>• Poor yield of local varieties due to incidence of pests</li> </ul>	Use of HYV Arka sharath in French bean	-	-	√	√	√	√
Dolichos bean	Channagiri	<ul style="list-style-type: none"> <li>• Poor yield of local varieties.</li> </ul>	Popularization of HYV Arka Amogh	-	-	√	√	√	√
Cowpea	Honnali	<ul style="list-style-type: none"> <li>• Photo insensitivity of existing varieties.</li> </ul>	Popularization of HYV Arka Samrudhi	-	-	√	√	√	√
Nutritional garden	Honnali	<ul style="list-style-type: none"> <li>• Poor quality vegetables for diet.</li> </ul>	Introduction of nutritional garden	-	-	√	√	√	√
Dryland Horticulture	Jagalur	<ul style="list-style-type: none"> <li>• Erratic rainfall and low water table</li> </ul>	Soil and moisture conservation	-	-		√	√	
Mango	Channagiri	<ul style="list-style-type: none"> <li>• Stem borer infestation</li> </ul>	Healer cum sealer technology	-	-	-	√	√	-

Sunflower	Davanagere	<ul style="list-style-type: none"> <li>• Budnecorsis and balck headed hairy caterpillar</li> <li>• No seed treatment</li> <li>• Improper nutrient management</li> </ul>	IPDM in sunflower	-	-	√	√	√	√
Bengalgram	Jagalur	<ul style="list-style-type: none"> <li>• No seed and soil treatment with trichoderma.</li> <li>• Pod borer root rot and wilt</li> </ul>	IPDM in Bengalgram	-	-	√	√	√	√
Mango	Channagiri	<ul style="list-style-type: none"> <li>• Mango shoot/trunk borer</li> </ul>	Integrated management of shoot borer in mango	-	-	√	√	√	-
Arecanut	Channagiri	<ul style="list-style-type: none"> <li>• Hidimundige incidence</li> </ul>	Integrated management of hidimundige in Arecanut	-	-	√	√	√	√
Sugarcane	Davanagere	<ul style="list-style-type: none"> <li>• Early shoot borer</li> </ul>	Integrated management of early shoot borer in sugarcane	-	-	√	√	√	-

Tomato	Davanagere	<ul style="list-style-type: none"> <li>• Early and late blight</li> </ul>	-	Testing efficacy of newer molecules in management of early and late blight of tomato	-	√	√	√	-
Cattle and Buffelo	Harapanahalli Kambathalli block	<ul style="list-style-type: none"> <li>• Repeat breeding</li> <li>• Uterine prolapse</li> <li>• Lower milk production</li> </ul>	Balanced nutrition, timely AI and use of good quality semen	√	-	√	√	√	√
Sheep and Goat	Harapanahalli Kambathalli block	<ul style="list-style-type: none"> <li>• Lower body weight gain due to endoparasites load.</li> </ul>	Use of broad spectrum anthelmintic at regular intervals. (Deworming)	√	-	√	√	√	√
Local poultry birds	Harapanahalli Kambathalli block	<ul style="list-style-type: none"> <li>• Lower body weight gain due to lack of nutrition and lower production potentiality</li> </ul>	Popularization of high yielding varieties of poultry birds viz. Swarnadhara / Giriraja birds.	-	-	√	√	-	-

## 7. Details of technological interventions

### A. Technology Assessment

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technological options			Source		
				Option -1	Option 2	Option -3	Option -1	Option 2	Option -3
1	Maize	<ul style="list-style-type: none"> <li>Weed menace during later stage of the crop</li> </ul>	Weed management in hybrid maize	Hand weeding and intercultivation operating at 15 and 30 DAS	Pre- emergent application of Atrazine – 50 WP @ 2.5 kg/ha. at 0-3 DAS	Pre-emergent application of Atrazine- 50 WP @ 1.25 kg ai/ ha at 0-3 DAS and post emergent application of 2,4 – D sodium salt 80 WP @ 0.5 kg ai / ha at 30 DAS	-	UAS, Bengaluru	UAS, Bengaluru

No. of trials	Details of inputs	Total cost involved (Rs.)	Names of the team members involved
15	Atrazine 50 WP-2.5 kg Atrazine 50 WP (1.25 kg) 2-4-D Sodium salt 80 / wp 0.5 kg	1,250-00 700-00 500-00	Mallikarjuna B.O. SMS (Agronomy)
	<b>Total</b>	<b>2450-00</b>	



S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technological options			Source		
				Option -1	Option 2	Option -3	Option -1	Option 2	Option -3
2.	Velvet beans	<ul style="list-style-type: none"> <li>• Weed infestation</li> <li>• Moisture conservation</li> <li>• Soil fertility conservation</li> </ul>	Assessment of velvet beans as intercropping in arecanut	Arecanut	Arecanut + Cowpea ( 2 rows)	Arecanut + Velvet beans ( 2 rows)	Farmers practice	UAS, Bengaluru	IIHR, Bengaluru

No. of trials	Details of inputs	Total cost involved (Rs.)	Names of the team members involved
05 (1.5 ha)	Cowpea- 10 kg	900-00	Dr. Pradeep H.M. SMS (Soil Science)
	Velvet beans - 15 kg (Arka Dhanavanthri)	1800-00	Mr. Basavanagowda M.G. SMS (Horticulture)
	<b>Total</b>	<b>2250-00</b>	

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technological options			Source		
				Option -1	Option 2	Option -3	Option -1	Option 2	Option -3
3.	Coconut	<ul style="list-style-type: none"> <li>Higher incidence of pest and diseases due to lack of resistance in coconut palms.</li> </ul>	Assessment of TNAU coconut tonic to strengthen the coconut palms.	Farmers Practice: Non use of organic and inorganic fertilizers at regular intervals	FYM- 50 kg/palm/year NPK- 500:320:1200 g / palm / year Neem cake-5.0 kg / palm / year Borax – 50 g / palm / year Econeemplus- 10ml / palm 3 times per year	TNAU coconut tonic 200 ml / palm-twice a year at 6 months intervals.	-	UAS Bengaluru	TNAU Coimbatore

No. of trials (palms)	Details of inputs	Total cost involved (Rs.)	Names of the team members involved
100	Neem cake- 250 kg Borax- 2.5 kg Econeemplus- 1.5 lt TNAU coconut tonic- 8 lt.	6250-00 750-00 1050-00 3000-00	Mr. Basavanagowda M.G. SMS (Horticulture) Dr. Pradeep H.M. SMS (Soil Science)
	<b>Total</b>	<b>11050-00</b>	

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technological options			Source		
				Option -1	Option 2	Option -3	Option -1	Option 2	Option -3
4.	Betelvine	<ul style="list-style-type: none"> <li>Higher incidence of gall wasp to betelvine standards resulting in crop loss</li> </ul>	Revival of betelvine gardens using gall wasp tolerant <i>erythrina</i> sp. standards	Farmers Practice: Use of Drumstick, Borle, Chogache together	Use of any one standard like drumstick, borle etc.	Use of gall wasp tolerant <i>erythrina</i> sp. standards.	-	UAS Bengaluru	UAS, Bengaluru KVK Mandya

No. of trials (palms)	Details of inputs	Total cost involved (Rs.)	Names of the team members involved
1.5 ha	Drumstick standards- 2000 no. Erythrina standards- 2000 no.	20000-00 24000-00	Mr. Basavanagowda M.G. SMS (Horticulture) Dr. Devaraja T.N. Programme Coordinator
	<b>Total</b>	<b>44000-00</b>	

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technological options			Source		
				Option -1	Option 2	Option -3	Option -1	Option 2	Option -3
5.	Tomato	<ul style="list-style-type: none"> <li>Higher incidence of early and late blight</li> </ul>	Testing efficacy of newer molecules in management of early and late blight of tomato	Spray with mancozeb 2.5 g / lt of H <sub>2</sub> O	Spray with Ridomyl MZ 2.5 g/ lt of H <sub>2</sub> O immediate after notice of disease	Spray with equation Pro 42% SC 1ml / 1 lt of H <sub>2</sub> O (Famoxadone 18% + Zymoxanil 24%) Immediate after notice of disease. controls both early + late blight of tomato	Farmers practice	UAS, Bengaluru	UAS, Dharwad

No. of trials	Details of inputs	Total cost involved (Rs.)	Names of the team members involved
15	Ridomyl MZ 1 kg / ha Equation Pro 1 lt / ha	1150-00 1250-00	Mr. Prasannakumar N. SMS (Plant Protection)
	<b>Total</b>	<b>2400-00</b>	

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technological options			Source		
				Option -1	Option 2	Option -3	Option -1	Option 2	Option -3
6.	Cattle and Buffelo	<ul style="list-style-type: none"> <li>Repeat breeding in cross bred cattle</li> </ul>	Balanced nutrition in crossbred dairy cows	Feeding cakes / brans along with roughages	Feeding balanced cattle feed along with roughages as per feeding standards	Feeding balanced cattle along with roughages as per feeding standards and use of area specific mineral mixture and deworming	-	KVAFSU, Bidar	NIANP, Bengaluru

No. of trials	Details of inputs	Total cost involved (Rs.)	Names of the team members involved
15	Cattle feed- 50 kg X 2 bags X 5 cows	6500-00	Dr. Jayadevappa G.K. SMS (Animal Science)
	Cattle feed- 50 kg X 2 bags X 5 cows	6500-00	
	ASMM- 1 kg X 2 bags X 5 cow	1500-00	
	Dewormer- 3000 mgs X 2 bags X 5 cows	800-00	
	<b>Total</b>	<b>15300-00</b>	

S. No.	Crop/enterprise	Prioritized problem	Title of intervention	Technological options			Source		
				Option -1	Option 2	Option -3	Option -1	Option 2	Option -3
7.	Sheep and Goats	<ul style="list-style-type: none"> <li>Lower body weight gain due to lack of nutrients</li> </ul>	Balanced nutrition and complete deworming in small ruminants	Normal grazing	Normal grazing + 500 gm Concentrate . Feed + Dewormer	Stall feeding with roughages and 500 gm Concentrate Feed + Deworming at 20 days interval + ASMM thrice	-	KVAFSU, Bidar	NIANP, Bengaluru

No. of trials	Details of inputs	Total cost involved (Rs.)	Names of the team members involved
15	Concentrate Feed- 50 kg X 5	3250-00	Dr. Jayadevappa G.K. SMS (Animal Science)
	Dewormer- 150 gm X 5	100-00	
	Concentrate Feed- 50 kg X 5	3250-00	
	ASMM- 1 kg X 5	750-00	
	Dewormer- 150 gm X 15	300-00	
	<b>Total</b>	<b>7650-00</b>	

**B. Technology Refinement**

S.No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technological options	Source	No. of trials	Details of inputs	Total cost involved (Rs.)	Names of the team members involved

**C. Frontline Demonstrations****A | CEREALS and MILLETS****1. Rice**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
1	Rice	<ul style="list-style-type: none"> <li>• No seed / seedling treatment with bio fertilizers.</li> <li>• Less micronutrient application</li> <li>• Higher blast incidence.</li> </ul>	Integrated crop management	UAS, Bengaluru	12	5

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Azospirillum- 12 kg	600-00	Dr. Pradeep H.M.
Zinc sulphate- 100 kg	5000-00	SMS (Soil Science)
Tricyclazole- 1.5 kg	3500-00	Mr. Mallikarjuna B.O. SMS (Agronomy)
		Mr. Prasannakumar N. SMS (Plant Protection)
	<b>9100-00</b>	

## 2. Maize

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
2	Maize	<ul style="list-style-type: none"> <li>• Stem borer incidence and downy mildew.</li> <li>• Sole cropping, poor soil nutrient status.</li> <li>• Improper nutrient management (No potash and higher dose of urea (Nitrogen)).</li> <li>• No micronutrient application (ZnSO<sub>4</sub>).</li> <li>• Weed management.</li> </ul>	Integrated crop management for improving the maize productivity.	UAS, Bengaluru	25	10

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Seeds – 150 kg Nithyasree NAH-2049 and Hema (NAH-1137)	13,500-00	Mr. Mallikarjuna B.O SMS (Agronomy)
Redgram BRG- 2 - 4 kg	3,600-00	Dr. Pradeep H.M. SMS (Soil Science)
ZnSO <sub>4</sub> - 100 kg	5,000-00	Mr. Prasannakumar N. SMS (Plant Protection)
PSB-25 kg	1,250-00	
	<b>23,350-00</b>	



## 3. Rice

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
3.	Rice	<ul style="list-style-type: none"> <li>• Reduced number of seedling / sq. mt. (30-40)</li> <li>• Weed menace.</li> </ul>	Mechanization in rice transplanting	CIAE, Bhopal	10	02

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Hiring of the transplanting machine @ 5000 / ha.	10,000-00	Mr. Mallikarjuna B.O SMS (Agronomy) Dr. Devaraja T.N. Programme Coordinator
	<b>10,000-00</b>	

## 4. Ragi

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
4.	Ragi	<ul style="list-style-type: none"> <li>• Low yield and poor quality of straw.</li> <li>• Non – availability of the quality seeds.</li> <li>• Uneven maturity and finger blast.</li> <li>• Lack of knowledge on seed treatment.</li> <li>• No Micronutrient application (ZnSO<sub>4</sub>)</li> </ul>	Integrated crop management practices in high yielding ragi varieties (KMR-301 and GPU-66)	UAS, Bengaluru	25	10

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Ragi seeds KMR-301- 120 kg	3,000-00	Mr. Mallikarjuna B.O
PSB – 25 kg	1250-00	SMS (Agronomy)
ZnSO <sub>4</sub> - 50 kg	2500-00	Mr. Raghuraja J. SMS (Agri. Extension)
	<b>6750-00</b>	

**5. Navane**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
5	Navane	<ul style="list-style-type: none"> <li>• Low yield</li> <li>• High seed rate and poor quality seeds</li> </ul>	Integrated Crop Management in navane (HMT 100-1)	UAS Dharwad	12	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
High yielding variety HMT 100-1 Azospirillum	1000-00 600-00	Mr. Raghuraja J. SMS (Agri. Extension) Mr. Mallikarjuna B.O SMS (Agronomy) Dr. Pradeep H.M. SMS (Soil Science)
<b>Total</b>	<b>1600-00</b>	

**6 Jowar**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
6	Jowar	<ul style="list-style-type: none"> <li>• Use of local varieties</li> <li>• No seed treatment</li> <li>• Incidence of stem borer</li> </ul>	Integrated crop management	UAS, Dharwad	12	5

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Seeds: M 35-1- 7.5 kg Seed treatment: PSB- 1 kg 50 percent of RDF N- 50 kg P-16 kg Chlorpyriphos – 1 lt	240-00 100-00 600-00 600-00 300-00	Mr. Raghuraja J. SMS (Agri. Extension) Mr. Mallikarjuna B.O. SMS (Agronomy) Mr. Prasannakumar N. SMS (Plant Protection)
	<b>1840-00</b>	

**B OILSEEDS****1. Groundnut**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
1.	Groundnut	<ul style="list-style-type: none"> <li>• Poor yield due to use of local (TMV-2) variety.</li> <li>• Less application of Gypsum.</li> <li>• High seed rate and no seed treatment with biofertilizers.</li> <li>• Root rot and leaf spot.</li> <li>• No micronutrient sprays.</li> </ul>	Integrated crop management in groundnut (GPBD-4)	UAS, Dharawad	12	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Groundnut pods – 8 qt trichoderma	40,000-00	Mr. Mallikarjuna B.O SMS (Agronomy) Mr. Prasannakumar N. SMS (Plant Protection)
	<b>40,000-00</b>	

## 2. Sunflower

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
2.	Sunflower	<ul style="list-style-type: none"> <li>• Bud necrosis and black headed hairy caterpillar incidence.</li> <li>• No seed treatment</li> <li>• Improper nutrient management</li> </ul>	IPDM in sunflower	UAS Bengaluru	12	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Goucho – 125 gm	1250-00	Mr. Prasannakumara N.
Jowar / Bajra- 10 kg	500-00	SMS (Plant Protection)
Trichoderma- 25 kg	1250-00	Mr. Mallikarjuna B.O.
Oxydematon methyl- 10 lt	3500-00	SMS (Agronomy)
Sulphur – 100 kg	4000-00	
Methomyl – 2.5 kg	3000-00	
<b>Total</b>	<b>13500-00</b>	

**C | PULSES****1. Redgram**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
1	Redgram	<ul style="list-style-type: none"> <li>• Use of local varieties</li> <li>• Improper nutrient management</li> <li>• Pod borer and wilt</li> </ul>	Integrated crop management	UAS, Bengaluru	12	5

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Seeds (BRG-2)- 75 kg	6750-00	Dr. Pradeep H.M.
ZnSO <sub>4</sub> - 75 kg	3750-00	SMS (Soil Science)
Zypsum- 750 kg	1350-00	Mr. Prasannakumar N.
Profenophos- 5 lt	2250-00	SMS (Plant Protection)
Quinolphos- 7.5 lt.	1875-00	Mr. Mallikarjuna B.O.
	<b>15975-00</b>	SMS (Agronomy)

**2. Cow pea**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
2.	Cow pea	<ul style="list-style-type: none"> <li>• Poor cooking qualities of local varieties.</li> <li>• Photo sensitivity of existing local varieties.</li> </ul>	Popularization of HYV 'Arka samrudhi' in young arecanut plantations	IIHR, Bengaluru	10	02

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Seeds of Arka samrudhi-30 kg	6000-00	Mr. Basavanagowda M.G.
		SMS (Horticulture)
		Dr. Devaraja T.N.
		Programme Coordinator
	<b>6000-00</b>	

### 3. Bengalgram

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
3.	Bengalgram	<ul style="list-style-type: none"> <li>• No seed and soil treatment with trichoderma.</li> <li>• Higher incidence of pod borer, wilt and root rot</li> </ul>	IPDM in bengalgram	UAS Bengaluru	12	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Trichoderma - 50 kg	2500-00	Mr. Prasannakumara N.
Coriander - 12 kg	1200-00	SMS (Plant Protection)
Profenophos - 12 lt	5400-00	Mr. Raghuraja J.
Rynoxypyr - 0.60 lt	7750-00	SMS (Agri. Extension)
<b>Total</b>	<b>16850-00</b>	

**D COTTON****1. Cotton**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
1.	Cotton	<ul style="list-style-type: none"> <li>• Improper spacing and higher seed rate.</li> <li>• Sucking pest incidence.</li> <li>• Micronutrients and macronutrients spray.</li> <li>• Square drop, boll dropping.</li> <li>• Leaf reddening.</li> </ul>	Integrated crop management practices in Bt. Cotton	UAS, Bengaluru	25	10

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Imidocloprid 2.5 lt.	3,750-00	Mr. Mallikarjuna B.O SMS (Agronomy)
Micronutrient mixture (MgSO <sub>4</sub> )- 75 kg (2%)	3,750-00	Dr. Pradeep H.M. SMS (Soil Science)
Macronutrient spray (KNO <sub>3</sub> ) – 100 kg (2%)	11,000-00	Mr. Prasannakumar N. SMS (Plant Protection)
Acephate – 12 kg	6,000-00	
Planofix - 2.5 lt	1,500-00	
	<b>26,000-00</b>	



**E | OTHER COMMERCIAL CROPS****1. Sugarcane**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
1.	Sugarcane	• Incidence of early shoot borer	Integrated management of early shoot borer in sugarcane	UAS, Bengaluru	12	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Carbofuron- 50 kg Trichogramma chilonis- 12.50	3250-00 2500-00	Mr. Prasannakumara N. SMS (Plant Protection) Mr. Mallikarjuna B.O. SMS (Agronomy)
<b>Total</b>	<b>5750-00</b>	

**F | HORTICULTURAL CROPS****1. Tomato**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
1	Tomato	• Fruit cracking • Improper micronutrient management	Integrated crop management	IIHR, Bengaluru	15	3

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Vegetable special- 45 kg (Rs. 150 per kg)	6750-00	Dr. Pradeep H.M. SMS (Soil Science) Mr. Prasannakumara N. SMS (Plant Protection)
	6750-00	

## 2. Banana

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
2	Banana	<ul style="list-style-type: none"> <li>• Lesser bunch weight due to micronutrient deficiency.</li> <li>• Improper nutrient management</li> </ul>	Integrated nutrient management	IIHR, Bengaluru	15	6

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Banana special- 180 kg (Rs. 150 per kg)	27,000-00	Dr. Pradeep H.M. SMS (Soil Science) Mr. Basavanagowda M.G. SMS (Horticulture)
	<b>27,000-00</b>	

## 3. Mango

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
3	Mango	<ul style="list-style-type: none"> <li>• Higher flower drop</li> <li>• Poor fruit set</li> <li>• Micronutrient deficiency</li> </ul>	Foliar application of 'Mango Special' to increase the productivity in mango	IIHR, Bengaluru	05	2

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Mango special- 40 kg (Rs. 150 per kg)	6000-00	Dr. Pradeep H.M. SMS (Soil Science) Mr. Raghuraja J. SMS (Agri. Extension)
	<b>6000-00</b>	

#### 4. French bean

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
4.	French bean	<ul style="list-style-type: none"> <li>Poor performance of existing varieties.</li> <li>Incidence of viral diseases and leaf minor</li> </ul>	Popularization of HYV Arka sharath in French bean	IIHR, Bengaluru	10	02

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Seeds of Arka sharath-130 kg	26000-00	Mr. Basavanagowda M.G. SMS (Horticulture) Mr. Prasannakumara N. SMS (Plant Protection)
	<b>26000-00</b>	

#### 5. Tomato

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
5	Tomato	<ul style="list-style-type: none"> <li>Existing hybrids / varieties are acceptable to TLCV, Bacterial wilt.</li> <li>Poor yield</li> </ul>	Introduction of high yielding triple disease resistant hybrid 'Arka ananya' in tomato	IIHR Bengaluru	10	02

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Seed of Arka ananya hybrid- 200 g	6000-00	Mr. Basavanagowda M.G. SMS (Horticulture) Dr. Pradeep H.M. SMS (Soil Science)
	<b>6000-00</b>	

## 6. Nutritional Garden

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Unit No.
6	Nutritional Garden	<ul style="list-style-type: none"> <li>Poor quality vegetables in market.</li> <li>Imbalanced diet in school children's.</li> </ul>	Popularization of 'Nutritional garden' among school children's in Davanagere district.	IIHR Bengaluru	10	10

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
IIHR seed kit- 10 no. Mango seedlings – 10 no. Lime seedlings – 10 no. Drumstick seedlings- 10 no. Curry leaf seedlings – 10 no.	2700-00	Mr. Basavanagowda M.G. SMS (Horticulture)
	<b>2700-00</b>	

## 7. Mango

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
7	Mango	<ul style="list-style-type: none"> <li>Incidence of shoot / trunk borer</li> </ul>	Integrated management of shoot / trunk borer in mango	IIHR, Bengaluru	100 plants	-

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
DDVP - 3 lt	1000-00	Mr. Prasannakumar
Sealer cum healer- 100 no.	10000-00	SMS (Plant Protection)
Chlorphyriphos – 3 lt.	600-00	Dr. Devaraja T.N.
COC - 1 kg	300-00	Programme Coordinator
<b>Total</b>	<b>11900-00</b>	

**8. Arecanut**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
8.	Arecanut	• Incidence of hidimundige	Integrated management of hidimundige in Arecanut	Arecanut Research Station , Shimoga	10	02

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
MOP-320 kg	1600-00	Mr. Prasannakumar N.
Borax- 2 kg	200-00	SMS (Plant Protection)
Trichoderma- 25 kg	2500-00	Mr. Basavanagowda M.G.
Mucuna – 10 kg	600-00	SMS (Horticulture)
Blitox- 1.5 kg	700-00	
Dimethoate- 1.5 lt	500-00	
<b>Total</b>	<b>12200-00</b>	

**9. Dolichos bean**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
9.	Dolichos bean	• Existing varieties photo insensitive • Poor yielding potential	Popularization of HYV Arka amogh in Dolichos bean	IIHR Bengaluru	10	02

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Seeds of Arka amogh-75 kg	15000-00	Mr. Basavanagowda M.G. SMS (Horticulture) Dr. Pradeep H.M. SMS (Soil Science)
	<b>15000-00</b>	

**G LIVESTOCK / FISHERIES****1. Cattle**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Units
1.	Cattle	• Lower and unhygienic milk production in crossbred cows	Use of cow mats for better production and performance from dairy cattle	KVAFSU Bidar	05	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Cow mats 4' X 6' X 17 mm	16,000-00	Dr. Jayadevappa G.K. SMS (Animal Science)
<b>Total</b>	<b>16,000-00</b>	

**2. Sheep and Goat**

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Units
2.	Sheep and Goat	• Lower body weight gain due to endoparasites	Use of broad spectrum Anthelmintic in small ruminants for better performance.	KVAFSU Bidar	25	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Anthelmintic ( 3 times)	1500-00	Dr. Jayadevappa G.K. SMS (Animal Science)
<b>Total</b>	<b>1500-00</b>	

### 3. Poultry rearing

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Units
3.	Poultry rearing	• Lower body weight gain in poultry birds	Popularization of swarnadhara poultry birds in back yard free range condition.	KVAFSU Bidar	50	05

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Birds	2500-00	Dr. Jayadevappa G.K. SMS (Animal Science)
<b>Total</b>	<b>2500-00</b>	

### 4. Fodder Production

S.No.	Crop	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)
4.	Fodder production	• Good quality fodder scarcity among livestock	Popularization of high yielding variety DHN-6 fodder crop	IGFRI Dharward	05	1.0 ha.

Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
Fodder root slips – 4000 no.s X 5	10,000-00	Dr. Jayadevappa G.K. SMS (Animal Science) Mr. Mallikarjuna B.O. SMS (Agronomy)
<b>Total</b>	<b>10,000-00</b>	

**5. Azolla Production**

<b>S.No.</b>	<b>Crop</b>	<b>Prioritized problem</b>	<b>Title of Technology</b>	<b>Source</b>	<b>No. of Demo</b>	<b>Units</b>
5.	Azolla production	<ul style="list-style-type: none"> <li>Lack of availability of good quality fodder crop at lower prices</li> </ul>	Production and use of azolla in dairy cattle	KVAFSU Bidar	05	05

<b>Details of critical inputs</b>	<b>Total cost involved (Rs.)</b>	<b>Names of the team members involved</b>
Azolla pond Azolla culture	15000-00	Dr. Jayadevappa G.K. SMS (Animal Science)
<b>Total</b>	<b>15000-00</b>	



**6. Fisheries**

S.No.	Enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area Units
6.	Fisheries	<ul style="list-style-type: none"> <li>• Reduced rice income per unit area</li> <li>• Water productivity is being wasted in rice areas.</li> <li>• No exclusive area for fish culture.</li> </ul>	“Rice cum fish culture technology in trench cum bund method”.	CIFA, Bhuwaneshwara (Traditional farming in North East states of India and in some parts of China)	03	3 ponds (farmers from Kukkwada, Kumbalur and TKVK) They are with organic farming practices.

Details of critical inputs per pond / per farmer	Total cost involved (Rs.)	Names of the team members involved
Fish seeds – 500 no. / 100 m <sup>2</sup>	1500-00	Dr. Devaraja T.N., Programme Coordinator Mr. Mallikarjuna B.O, SMS (Agronomy) Mr. Vijayakumar S.B., Farm Manager
GOC - 50 kg / pond	3750-00	
RB - 50 kg / pond	2100-00	
Cover net & accessories (poles/ropes) – 50 m <sup>2</sup> / pond	10500-00	
VM mix - 5 kg / pond	1500-00	
Lime - 20 kg / pond	600-00	
Fish gill net - 1 no.	3000-00	
<b>Total</b>	<b>22950-00</b>	

**7. Fisheries**

S.No.	Enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area in Units
7.	Fisheries	<ul style="list-style-type: none"> <li>District's fish average production is a below state average.</li> <li>Income of small farmers in regular agriculture practices is dwindling.</li> </ul>	Integrated fish farming with horticulture crops on the bunds of farm pond.	UAS, Bengaluru	06	06

Details of critical inputs per pond	Total cost involved (Rs.)	Names of the team members involved
Fish fingerlings 200 no.- Rs. 1000/- Feed components – Rs. 1000/- Net and mesh - Rs. 1000/- <b>Horticultural saplings:</b> Drumstick 5 no.- Rs. 50-00/- Banana 5 no. – Rs. 25-00/- Pappaya 5 no.- Rs. 100-00/- Vegetable seeds –Rs. 50-00/- Fodder slips and seeds (including DHN-6 and Lucerne)-Rs. 100-00/- Lime – Rs. 175-00/-	<b>3700-00</b>	Dr. Devaraja T.N., Programme Coordinator Mr. Prasannakumar N., SMS (Plant Protection) Mr. Basavanagowda M.G., SMS (Horticulture)
<b>Total</b>	<b>3700-00</b>	

## 8. Fisheries

S.No.	Enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area in Units
8.	Fisheries	• Non availability of good quality and bigger size fish fingerlings for stocking in farm production	Production of advanced fish fingerlings of carps for culture in farm ponds	CIFA, Bhuwaneshwara	03	3 farmers (Naganakatte Yelavatti TKVK)

Details of critical inputs per pond	Total cost involved (Rs.)	Names of the team members involved
Fish seeds – 45000 / pond ( 0.25 acre)	11250-00	Dr. Devaraja T.N., Programme Coordinator
GOC - 1 q / pond	2500-00	
RB - 1 q / pond	1500-00	
VM mix - 10 kg / pond	1000-00	
Lime - 100 kg / pond	1000-00	
Fish drag net- 3 no.	1500-00	
Cover net and accessories – 3 pieces	5000-00	
<b>Total</b>	<b>23750-00</b>	

## 9 Fisheries

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Units
9.	Fisheries	<ul style="list-style-type: none"> <li>Several village tanks are left unutilized due to weed menace.</li> </ul>	Scientific management of aquatic weeds in village tanks using grass carps and common carps.	UAS, Bengaluru	02	02 village tanks (of 2 acre each)

Details of critical inputs (pond)	Total cost involved (Rs.)	Names of the team members involved
Grass carp fingerlings 4000 no. / acre Rs. 4000-00 Common carp fingerlings 4000 no. / acre Rs. 4000-00	16,000-00 16,000-00	Dr. Devaraja T.N. Programme Coordinator Mr. Mallikarjuna B.O. SMS (Agronomy)
<b>Total</b>	<b>32,000-00</b>	

**10 Fisheries**

S.No.	Enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area in Units
10	Fisheries	<ul style="list-style-type: none"> <li>Earning additional income for livelihood security by women members of rural family</li> </ul>	Production of live bearing ornamental fishes in backyard as subsidiary income generating activity for small farmers.	UAS, Bengaluru	02	02 (2 farm women)

Details of critical inputs per farmer	Total cost involved (Rs.)	Names of the team members involved
Cement rings- 8 no./ (Rs. 1200 per ring)	20,000-00	Dr. Devaraja T.N., Programme Coordinator Dr. Jayadevappa G.K., SMS (Animal Science)
Fish seeds and brood stock Rs. 1000	2000-00	
Fish feed ingredients – Rs.2000/-	4000-00	
Accessories Rs. 500/-	1000-00	
<b>Total</b>	<b>27000-00</b>	

**11 Fisheries**

S.No.	Enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units
11	Fisheries	<ul style="list-style-type: none"> <li>Continuous irrigation has changed soils to saline lands and left unproductive.</li> </ul>	Utilization of saline soils for fish aquaculture in canal irrigation rural areas of Davanagere taluk	UAS, Bengaluru	05	0.4 ha area (05 farmers)

Details of critical inputs per farmer	Total cost involved (Rs.)	Names of the team members involved
Fish seeds Rs. 4000/- VM mix Rs. 500-00	20000-00 2500-00	Dr. Devaraja T.N., Programme Coordinator Dr. Pradeep H.M., SMS (Soil Science)
<b>Total</b>	<b>22500-00</b>	

**D. Trainings**  
**i) Farmers/ Farm Women**

<b>S.No.</b>	<b>Crop / Enterprise</b>	<b>Major problem</b>	<b>Linked field intervention (Assessment/Refinement/FLD)</b>	<b>Training Course Title**</b>	<b>No. of Courses</b>	<b>Names of the team members involved</b>
1.	Rice	<ul style="list-style-type: none"> <li>• No seed / seedling treatment with bio fertilizers</li> <li>• Less micronutrient application</li> </ul>	Integrated crop management in rice (FLD)	<ul style="list-style-type: none"> <li>• Soil sampling based fertilizer application.</li> <li>• Green manuring in paddy fields.</li> <li>• Azospirillum using methods in rice</li> <li>• Seed bed and nursery management in rice</li> <li>• Organic and inorganic manure management in rice.</li> <li>• Stem borer and BPH management in rice.</li> </ul>	06	Dr. Pradeep H.M., SMS (Soil Science) Mr. Prasannakumara N., SMS (Plant Protection) Mr. Mallikarjuna B.O., SMS (Agronomy)
2	Redgram	<ul style="list-style-type: none"> <li>• Use of local varieties</li> <li>• Improper nutrient management</li> <li>• Pod borer and wilt incidence</li> </ul>	Integrated crop management in redgram (FLD)	<ul style="list-style-type: none"> <li>• Soil sampling methods.</li> <li>• Use of bio fertilizers in redgram.</li> <li>• Management of pod borer and wilt in redgram.</li> <li>• Use of bio pesticides in redgram.</li> <li>• Intercropping in redgram.</li> </ul>	05	Dr. Pradeep H.M., SMS (Soil Science) Mr. Prasannakumara N., SMS (Plant Protection) Mr. Mallikarjuna B.O., SMS (Agronomy)
3	Tomato	<ul style="list-style-type: none"> <li>• Fruit cracking</li> <li>• Improper micronutrient management</li> </ul>	Integrated nutrient management in tomato (FLD)	<ul style="list-style-type: none"> <li>• Use of bio fertilizers in tomato.</li> <li>• Micronutrient management by foliar application of vegetable special.</li> <li>• Fruit borer and blight management in tomato</li> </ul>	03	Dr. Pradeep H.M., SMS (Soil Science) Mr. Prasannakumara N., SMS (Plant Protection)

4	Banana	<ul style="list-style-type: none"> <li>• Lower bunch weight</li> <li>• Sigatoka leaf spot</li> <li>• Fruit cracking</li> </ul>	Integrated nutrient management in banana (FLD)	<ul style="list-style-type: none"> <li>• Micronutrient management by foliar application of banana special.</li> <li>• Management of sigatoka leaf spot in banana.</li> <li>• Sucker management in banana.</li> <li>• Major nutrient management in banana.</li> <li>• Bunch management in banana.</li> </ul>	05	Dr. Pradeep H.M., SMS (Soil Science) Mr. Basavanagowda M.G., SMS (Horticulture)
5	Mango	<ul style="list-style-type: none"> <li>• Flower and fruit drop</li> <li>• Lower productivity</li> </ul>	“Foliar application of mango special to increase productivity in mango” (FLD)	<ul style="list-style-type: none"> <li>• Micronutrient management by foliar application of mango special.</li> <li>• Organic and inorganic manure management in mango.</li> <li>• Green manuring in mango fields.</li> </ul>	03	Dr. Pradeep H.M., SMS (Soil Science) Mr. Raghuraja J., SMS (Agri. Extension)
6.	Velvet beans	<ul style="list-style-type: none"> <li>• Weed infestation</li> <li>• Soil fertility conservation</li> <li>• Moisture conservation</li> </ul>	Assessment of velvet beans as intercropping in Arecanut (OFT)	<ul style="list-style-type: none"> <li>• Intercropping methods in arecanut.</li> <li>• Insitue green manuring in Arecanut.</li> </ul>	03	Dr. Pradeep H.M., SMS (Soil Science) Mr. Basavanagowda M.G., SMS (Horticulture))
7.	Banana	<ul style="list-style-type: none"> <li>• Micronutrient management</li> <li>• Pest and disease management</li> <li>• Fruit splitting</li> <li>• Low yield</li> </ul>	Enhancement of bunch size in banana (OFT)	<ul style="list-style-type: none"> <li>• Micronutrient management in banana through foliar application of banana special.</li> <li>• Sigatoka leaf spot management in banana.</li> <li>• Enhancing of yield by bunch feeding in banana</li> </ul>	05	Dr. Pradeep H.M., SMS (Soil Science) Mr. Basavanagowda M.G., SMS (Horticulture))

8.	Maize	<ul style="list-style-type: none"> <li>• Stem borer and downey mildew.</li> <li>• No intercropping with pulses.</li> <li>• Improper nutrient management.</li> <li>• Weed management.</li> </ul>	Assessment FLD	<ul style="list-style-type: none"> <li>• Soil sampling techniques.</li> <li>• Seed treatment with the bio fertilizers.</li> <li>• Weedicide usage in the maize to improved the yield.</li> <li>• Top dressing and ZNSO<sub>4</sub> management in maize.</li> <li>• Value addition for maize.</li> <li>• Grading and marketing.</li> </ul>	08	Mr. Mallikarjuna B.O., SMS (Agronomy)
9	Paddy	<ul style="list-style-type: none"> <li>• Reduced number of (seedling) hill / sq. mt. (30-40).</li> <li>• Weed menace.</li> <li>• Labour management and availability</li> </ul>	Mechanization in paddy transplanting.	<ul style="list-style-type: none"> <li>• Raising of the seedling in nursery using pore trays / mat.</li> <li>• Trends on training the use of machine at time of transplanting.</li> <li>• Land preparation techniques for machine transplanting.</li> <li>• Water management in paddy.</li> <li>• Transplanting techniques by using machine.</li> </ul>	05	Mr. Mallikarjuna B.O., SMS (Agronomy)
10.	Ragi	<ul style="list-style-type: none"> <li>• Low yield and poor straw quality.</li> <li>• No micronutrient application.</li> <li>• Use of local ragi varieties.</li> <li>• Poor knowledge on HYV</li> </ul>	Integrated crop management in HYV in ragi (KMR-301/GPU-66)	<ul style="list-style-type: none"> <li>• Selection of suitable varieties for the suitable season.</li> <li>• Seed treatment with biofertilizers.</li> <li>• Fodder enrichment with urea 2 %</li> </ul>	03	Mr. Mallikarjuna B.O., SMS (Agronomy)



11.	Cotton	<ul style="list-style-type: none"> <li>• Improper spacing and higher seed rate.</li> <li>• Leaf reddening</li> <li>• Sucking pest and mealy bug.</li> <li>• Square drying flower drop and boll dropping.</li> <li>• Micronutrient and macronutrient sprays are not followed.</li> </ul>	Integrated crop management practice in Bt. Cotton.	<ul style="list-style-type: none"> <li>• Seed treatment with imdacloprid and bio fertilizers.</li> <li>• Preparation of the spraying mixtures for the sucking and mealy bug.</li> <li>• Role of growth regulatory (planofix) to reduce the flower crop.</li> <li>• Management of leaf reddening through the spraying of MgSO<sub>4</sub></li> <li>• Management of the boll dropping and improving the lint yield by spraying of the KNO<sub>3</sub></li> </ul>	10	Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Prasannakumar N., SMS (Plant Protection)
12.	Groundnut	<ul style="list-style-type: none"> <li>• Poor yield due to use of local Varsity (TMV-2).</li> <li>• No Gypsum application seeds to poor quality of pods.</li> <li>• Root rot and leaf spot.</li> <li>• Pod size and seeds are not in good shape.</li> </ul>	Integrated management practices in groundnut ( GPBD-4)	<ul style="list-style-type: none"> <li>• Seed treatment with trichoderma 4 g / kg of seed and biofertilizers (Rhizobium-500 g)</li> <li>• Role of Gypsum (500 kg / ha) application in increasing the yield in groundnut.</li> <li>• Identification and management of pest and disease.</li> <li>• Importance of fodder quality of groundnut GPBD-4)</li> </ul>	06	Mr. Mallikarjuna B.O., SMS (Agronomy)

13.	Tomato	<ul style="list-style-type: none"> <li>• Low yield potential of local varieties.</li> <li>• Mealy incidence of viral disease</li> <li>• Fruit cracking and splitting</li> </ul>	Introduction of high yielding triple disease resistant hybrid 'Arka Ananya' in tomato (FLD)	<ul style="list-style-type: none"> <li>• Recent trends in production technology of tomato.</li> <li>• Foliar application of 'vegetable speical' in tomato.</li> <li>• IPDM in tomato.</li> <li>• Use of plastic mulch in tomato production.</li> </ul>	03	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumara N., SMS (Plant Protection)
14	Coconut	<ul style="list-style-type: none"> <li>• Poor quality nuts</li> <li>• Lack of resistance in palms.</li> <li>• Nut dropping.</li> <li>• Incidence of mites and CBHC</li> </ul>	Assessment of TNAU coconut tonic to strengthen the coconut palms (OFT)	<ul style="list-style-type: none"> <li>• Popularization of hybrids in coconut.</li> <li>• Root feeding of TNAU coconut tonic.</li> <li>• Popularization of green manure crops in coconut gardens.</li> <li>• Use of bio agents to control CBHC in coconut.</li> </ul>	04	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Pradeep H.M., SMS (Soil Science)
15	Betelvine	<ul style="list-style-type: none"> <li>• Incidence of gall midge in standard plants.</li> <li>• Lack of quality insect pest resistant standard plants.</li> </ul>	Revival of betel vine gardens by using Gall wasp tolerant <i>erythrina</i> spp. standards. (OFT)	<ul style="list-style-type: none"> <li>• Popularization of gall wasp tolerant <i>erythrina</i> spp. standards in betelvine plants.</li> <li>• Recent trends in production of betelvine.</li> </ul>	02	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumara N., SMS (Plant Protection)
16.	French bean	<ul style="list-style-type: none"> <li>• Poor performance of existing varieties.</li> <li>• Incidence of viral disease and leaf minor</li> </ul>	Popularization of HYV 'Arka Sharath' in French bean. (FLD)	<ul style="list-style-type: none"> <li>• Popularization of HYV 'Arka Sharath' in French bean.</li> <li>• Management of leaf minor in French bean.</li> <li>• Methods to control viral diseases in French bean.</li> </ul>	03	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumara N., SMS (Plant Protection)

17.	Dolichos Bean	<ul style="list-style-type: none"> <li>Existing varieties are photo insensitive</li> </ul>	Popularization of HYV 'Arka Amogh' in Dolichos bean.	<ul style="list-style-type: none"> <li>Production technology of HYV 'Arka Amogh' in Dolichos bean.</li> <li>Dolichos bean as green manure crop in Arecanut gardens.</li> </ul>	02	Mr. Basavanagowda M.G., SMS (Horticulture)
18.	Cowpea	<ul style="list-style-type: none"> <li>Poor qualities of existing varieties.</li> <li>Photo insensitivity of existing varieties.</li> </ul>	Popularization of HYV 'Arka Samrudhi' in young Arecanut plantations. (FLD)	<ul style="list-style-type: none"> <li>Production technology of HYV 'Arka Samrudhi' in cowpea.</li> <li>Cowpea as green manure crop in young Arecanut plantations.</li> </ul>	02	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Pradeep H.M., SMS (Soil Science)
19	Nutritional garden	<ul style="list-style-type: none"> <li>Poor quality of vegetables in market.</li> <li>Imbalance diet in school children's.</li> </ul>	Popularization of 'nutritional garden' among school children's in Davanagere district (FLD)	<ul style="list-style-type: none"> <li>Role of balanced nutrients in human diet.</li> <li>Layout and designing of nutritional garden.</li> </ul>	02	Mr. Basavanagowda M.G., SMS (Horticulture)
20	Sunflower	<ul style="list-style-type: none"> <li>Bud necrosis</li> <li>Black headed hairy</li> <li>No seed treatment</li> <li>Improper nutrient management.</li> </ul>	IPDM in sunflower	<ul style="list-style-type: none"> <li>Seed treatment with Goucho.</li> <li>Role of border crop in pest management.</li> <li>Method demonstration on spray solution preparation.</li> <li>Identification of diseases based on symptoms.</li> </ul>	04	Mr. Prasannakumar N. , SMS (Plant Protection) Mr. Mallikarjuna B.O., SMS (Agronomy)
21.	Bengalgram	<ul style="list-style-type: none"> <li>No seed and soil treatment with trichoderma.</li> <li>Pod borer, wilt and root rot</li> </ul>	IPDM in bengalgram	<ul style="list-style-type: none"> <li>Seed treatment and soil enrichment with trichoderma.</li> <li>Trap crop for pod borer manage.</li> <li>Method of spraying for pest control.</li> <li>Wilt and root rot identification.</li> </ul>	04	Mr. Prasannakumar N. , SMS (Plant Protection) Mr. Raghuraja J., SMS (Agri. Extension)

22.	Sugarcane	<ul style="list-style-type: none"> <li>• Early shoot borer</li> </ul>	Integrated management of early shoot borer management in sugarcane.	<ul style="list-style-type: none"> <li>• Soil application and set treatment method.</li> <li>• Release of parasitoid to field technology.</li> </ul>	03	Mr. Prasannakumar N., SMS (Plant Protection) Mr. Mallikarjuna B.O., SMS (Agronomy)
23.	Mango	<ul style="list-style-type: none"> <li>• Shoot / trunk borer</li> </ul>	Integrated management of shoot borer in mango	<ul style="list-style-type: none"> <li>• Preparation of spray mixtures.</li> <li>• Application of sealer cum healer.</li> </ul>	03	Mr. Prasannakumar N., SMS (Plant Protection) Mr. Basavanagowda M.G., SMS (Horticulture)
24	Arecanut	<ul style="list-style-type: none"> <li>• Hidimundige incidence</li> </ul>	Integrated management of hidimundige in arecanut	<ul style="list-style-type: none"> <li>• Method of potash application.</li> <li>• Enrichment of trichoderma to FYM.</li> <li>• Disease identification based on symptoms.</li> <li>• Method of spraying to affected plants.</li> </ul>	04	Mr. Prasannakumar N., SMS (Plant Protection) Mr. Basavanagowda M.G., SMS (Horticulture)
25	Cattle and buffelo	<ul style="list-style-type: none"> <li>• Repeat breeding in dairy animals.</li> </ul>	OFT	<ul style="list-style-type: none"> <li>• Scientific feeding of dairy animals.</li> </ul>	02	Dr. Jayadevappa G.K., SMS (Animal Science)
26	Cattle and buffelo	<ul style="list-style-type: none"> <li>• Lower production performance- Cattle and sheep / Goat</li> </ul>	OFT	<ul style="list-style-type: none"> <li>• Control of parasitic infestation in livestock and its advantages.</li> </ul>	02	Dr. Jayadevappa G.K., SMS (Animal Science)
27	Navane	<ul style="list-style-type: none"> <li>• Low yield use of local seeds absence of INM</li> </ul>	FLD	<ul style="list-style-type: none"> <li>• ICM in Navane</li> </ul>	01	Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Pradeep H.M., SMS (Soil Science) Mr. Raghuraja J., SMS ( Agri. Extension)

28	Jowar	<ul style="list-style-type: none"> <li>• Low yield and poor straw quality</li> <li>• No seed treatment</li> <li>• Poor knowledge of HYV</li> </ul>	FLD	<ul style="list-style-type: none"> <li>• Selection of suitable varieties</li> <li>• Seed treatment</li> <li>• Management of stem borer</li> </ul>	03	Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Prasannakumara N., SMS (Plant Protection) Mr. Raghuraja J., SMS ( Agri. Extension)
28	Fisheries	<ul style="list-style-type: none"> <li>• Reduced paddy income per unit area</li> <li>• Water productivity is being wasted in paddy areas.</li> <li>• No exclusive area for fish culture.</li> </ul>	“Paddy cum fish culture technology in trench cum bund method”. (FLD)	<ul style="list-style-type: none"> <li>• Integrated production technology of fish and paddy</li> </ul>	02	Dr. Devaraja T.N., Programme Coordinator Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Vijayakumar S.B., Farm Manager
29	Fisheries	<ul style="list-style-type: none"> <li>• District’s fish average production is for below state average.</li> <li>• Income of small farmers in regular agriculture practices is dwindling.</li> </ul>	Integrated fish farming with horticulture crops on the bunds of farm pond (FLD)	<ul style="list-style-type: none"> <li>• Fish culture in seasonal farm ponds</li> </ul>	01	Dr. Devaraja T.N., Programme Coordinator Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumara N., SMS (Plant Protection)
29	Fisheries	<ul style="list-style-type: none"> <li>• Several village tanks are left unutilized due to weed menace.</li> </ul>	Scientific management of aquatic weeds in village tanks using grass carps and common carps. (FLD)	<ul style="list-style-type: none"> <li>• Control of aquatic weeds in village tanks</li> </ul>	02	Dr. Devaraja T.N., Programme Coordinator Mr. Mallikarjuna B.O., SMS (Agronomy)

30	Fisheries	<ul style="list-style-type: none"> <li>Earning additional income for livelihood security by women members of family rural</li> </ul>	Production of live bearing ornamental fishes in backyard as subsidiary income generating activity for small farmers. (FLD)	<ul style="list-style-type: none"> <li>Production technology of live bearing ornamental fishes</li> </ul>	01	Dr. Devaraja T.N., Programme Coordinator Dr. Jayadevappa G.K., SMS (Animal Science)
31	Fisheries	<ul style="list-style-type: none"> <li>Continuous irrigation has changed soils to saline lands and left unproductive.</li> </ul>	Utilization of saline soils for fish aquaculture in canal irrigation rural areas of Davanagere taluk (FLD)	<ul style="list-style-type: none"> <li>Utilization of saline soils for fish aquaculture in canal irrigation rural areas of Davanagere taluk</li> </ul>	01	Dr. Devaraja T.N., Programme Coordinator Dr. Pradeep H.M., SMS (Soil Science)

## ii) Rural Youth

S.No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/Refinement/FLD)	Training Course Title**	No. of Courses	Names of the team members involved
1	Banana	<ul style="list-style-type: none"> <li>Micro nutrient management</li> </ul>	Integrated management in banana	Micro nutrient management of banana through foliar application of banana special.	01	Dr. Pradeep H.M., SMS (Soil Science) Mr. Basavanagowda M.G., SMS (Horticulture))
2	Areca nut	<ul style="list-style-type: none"> <li>Micronutrient management</li> <li>Weed infestation</li> <li>Moisture conservation</li> <li>Fertility conservation</li> </ul>	Integrated crop management in Areca nut	<ol style="list-style-type: none"> <li>Micronutrient management of Areca nut.</li> <li>Green manuring in Areca nut</li> <li>Integrated pest and disease management in areca nut</li> </ol>	01	Dr. Pradeep H.M. SMS (Soil Science) Mr. Basavanagowda M.G., SMS (Horticulture)
3.	Groundnut	<ul style="list-style-type: none"> <li>Non availability of high yielding varieties seeds.</li> <li>Poor seed and pod quality due to non application of Gypsum.</li> </ul>	Integrated crop management in Groundnut	<p>Seed production techniques in groundnut.</p> <p>Water management in groundnut.</p>	04	Mr. Mallikarjuna B.O., SMS (Agronomy)

4.	Paddy	<ul style="list-style-type: none"> <li>No proper techniques if raising seedlings for mechanical transplanting.</li> </ul>	Mechanization of paddy transplanting.	<p>Training on the raising of the nursery on mat and pore trays.</p> <p>Transplanting machine maintenance.</p>	02	Mr. Mallikarjuna B.O., SMS (Agronomy)
5.	Methods of plant propagation	<ul style="list-style-type: none"> <li>Lack of good quality planting material.</li> <li>Poor performance of local varieties.</li> <li>High cost per seedlings in private nurseries.</li> </ul>	-	<p>Methods of grafting in horticulture crops.</p> <p>Methods of budding in horticulture crops.</p> <p>'Air layering' – tool for propagation of horticulture crops.</p> <p>Pro tray nursery</p>	02	Mr. Basavanagowda M.G., SMS (Horticulture)
6.	Arecanut	<ul style="list-style-type: none"> <li>Hidimundige incidence</li> </ul>	Integrated management of hidimundige in Arecanut	<p>Disease identification based on symptoms.</p> <p>IDM practices to manage disease.</p>	02	Mr. Prasannakumar N., SMS (Plant Protection)
7.	Bengalgram	<ul style="list-style-type: none"> <li>Root rot, wilt and pod borer incidence.</li> <li>No seed and soil treatment</li> </ul>	IPDM in bengalgram	<p>Importance of seed and soil treatment to manage soil borne disease.</p> <p>Role of trap crop in pod borer management.</p> <p>Method of spray solution preparation and spraying technique.</p>	03	Mr. Prasannakumar N., SMS (Plant Protection)
8.	Sheep and Goat	<ul style="list-style-type: none"> <li>Lower body at gain due to endoparasites</li> </ul>	OFT and FLD	<p>Advantages of stall feeding in sheep and goats.</p> <p>Use of broad spectrum anthelmintics and its advantages</p>	02	Dr. Jayadevappa G.K., SMS (Animal Science)
9.	Extension Education	<ul style="list-style-type: none"> <li>Reduced interest informing among rural youth</li> </ul>	Training programme	Reinvention of farming interest among rural youth of Davanagere district.	1 ( 4 days)	Mr. Raghuraja J., SMS (Agri. Extension) Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Devaraja T.N., Programme Coordinator

## iii) Extension Personnel

S.No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/Refinement/FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
1.	Cotton	<ul style="list-style-type: none"> <li>• Leaf reddening</li> <li>• Boll drying</li> <li>• Square drying</li> <li>• Flower drop</li> </ul>	Integrated crop management in cotton	<ul style="list-style-type: none"> <li>• Improved production technology in Bt. Cotton</li> </ul>	04	Mr. Mallikarjuna B.O., SMS (Agronomy)
2.	Nutritional garden	<ul style="list-style-type: none"> <li>• Poor quality vegetables in market.</li> <li>• Imbalanced diet among rural youth/school children's.</li> </ul>	Popularization of nutritional garden among school children's in Davanagere district (FLD)	<ul style="list-style-type: none"> <li>• Popularization of nutritional garden.</li> <li>• Role of balanced nutrients in human diet.</li> </ul>	02	Mr. Basavanagowda M.G., SMS (Horticulture)
3.	Sunflower + Bengalgram	<ul style="list-style-type: none"> <li>• Bud necrosis, BHC, Head borer incidence. Root rot wilt and pod borer problem.</li> </ul>	IPDM in sunflower and bengalgram.	<ul style="list-style-type: none"> <li>• IPDM strategies to control the pest and diseases.</li> </ul>	03	Mr. Prasannakumar N., SMS (Plant Protection)
4	Mango + Arecanut	<ul style="list-style-type: none"> <li>• Shoot borer incidence hidimundige</li> </ul>	Integrated management of shoot borer in mango and hidimundite in arecanut	<ul style="list-style-type: none"> <li>• IPDM in mango and Arecanut</li> </ul>	04	Mr. Prasannakumar N., SMS (Plant Protection)



5	Azolla production	<ul style="list-style-type: none"> <li>Scarcity of good quality fodder crops</li> </ul>	FLD	<ul style="list-style-type: none"> <li>Azolla – as a source of protein and minerals for livestock.</li> </ul>	01	Dr. Jayadevappa G.K., SMS (Animal Science)
6	Fodder production	<ul style="list-style-type: none"> <li>Scarcity of good quality fodder crops</li> </ul>	FLD	<ul style="list-style-type: none"> <li>Production of DHN-6 fodder crop and its nutritive value</li> </ul>	01	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Mallikarjuna B.O., SMS (Agronomy)
7	Fisheries	<ul style="list-style-type: none"> <li>Reduced crop production and productivity inturn reduced income per capital</li> </ul>	-	<ul style="list-style-type: none"> <li>Integration of fish culture in agriculture practices</li> </ul>	01	Dr. Devaraja T.N., Programme Coordinator Mr. Raghuraja J., SMS (Agri. Extension)

#### iv) Vocational trainings

Crop / Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth etc.)	Names of the team members involved
Soil Health Clinic	Methods of soil sampling, testing and crop recommendations	01 (05 days)	Rural youth	Dr. Pradeep H.M., SMS (Soil Science)
Vermicomposting	Methods of vermicomposting and vermiculture. Enrichment of the vermicompost through trichoderma.	12	Self Help Groups, Siddanur	Mr. Mallikarjuna B.O., SMS (Agronomy)
Fruit crops	Propagation techniques in horticulture crops.	01 (10 days)	Unemployed Rural Youth	Mr. Basavanagowda M.G., SMS (Horticulture)

Nutritional garden	Role of nutritional garden in school premises	01 (10 days)	School children's	Mr. Basavanagowda M.G., SMS (Horticulture)
Bio agent production	Trichoderma mass multiplication technique.	08	Self Help Groups	Mr. Prasannakumar N., SMS (Plant Protection)
Cattle and buffalo	Scientific dairy farming	1 (10 days)	Rural youth	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Vijayakumar S.B. Farm Manager Mr. Raghuraja J., SMS (Agri. Extension)
Poultry rearing	Scientific poultry farming	1 (10 days)	Rural youth	Dr. Jayadevappa G.K. SMS (Animal Science) Mr. Vijayakumar S.B., Farm Manager Mr. Raghuraja J., SMS (Agri. Extension)

## v) Sponsored trainings

Crop/ Enterprise	Sponsoring Organization	Training course title*	No. of Courses	Names of the team members involved
Maize	Karnataka State Agricultural Marketing Board, Bengaluru	Integrated crop management in maize	02	Mr. Mallikarjuna B.O., SMS (Agronomy)
		Marketing and Grading of the maize.	02	
Cotton	MCF, Bengaluru	Integrated crop management in Bt. Cotton (Use of MgSO <sub>4</sub> and KNO <sub>3</sub> ) spray.	04	Mr. Mallikarjuna B.O., SMS (Agronomy)
School Nutritional garden	District Institute of Education and Technology	Importance of Nutritional Garden in Schools	02	Mr. Basavanagowda M.G., SMS (Horticulture)

Organic Horticulture	National Horticulture Mission	Organic Farming in Horticulture Crops	02	Mr. Basavanagowda M.G., SMS (Horticulture)
Arecanut	Mangalore Chemicals and Fertilizers (MCF)	Integrated Crop Management in Arecanut	01	Mr. Basavanagowda M.G., SMS (Horticulture)
Paddy	Mahindra Samrudhi, Davanagere	Integrated pest and disease management in paddy. IPDM in paddy	02	Mr. Prasannakumar N., SMS (Plant Protection)
	Dhanuka pesticides		01	
	Mangalore Chemicals and Fertilizers Limited	Integrated nutrient management in paddy	01	Dr. Pradeep H.M., SMS (Soil Science)
Livestock rearing	Zilla Panchayath Davanagere	Rearing livestock for income generating activities.	10	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Raghuraja J., SMS (Agri. Extension) Mr. Vijayakumar S.B., Farm Manager

**E. Extension programmes (2012)**

<b>Month</b>	<b>Extension programme*</b>	<b>Linked field intervention**</b>	<b>Expected category of participants</b>	<b>Names of the team members involved</b>
April	Group meetings	FLD and OFT's Trainings	Farmers, Farm women	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Group discussion	OFT-Revival of betelvine gardens by using gall wasp tolerant <i>erythrina</i> spp. standards.	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Group discussion	FLD – popularization of HYV Arka Samrudhi in cowpea	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Group discussion	FLD and OFT's	Farmers, Farm youth	Mr. Prasannakumar N., SMS (Plant Protection)
	Field Day	FLD- Fish cum paddy culture technology	Farmers, Public officers	Dr. Devaraja T.N., Programme Coordinator Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Raghuraja J., SMS (Agri. Extension)
May	Group meeting: Selection of farmers, Identification of demonstration fields	FLD and OFT's Trainings	Farmers, Farm women, Rural youth	Dr. Pradeep H.M., SMS (Soil Science)
	Group meetings, Field visit	FLD and OFT's – Selection of farmers and fields.	Farmers, Farm women	Mr. Mallikarjuna B.O., SMS (Agronomy)

	Trainings	OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumara N., SMS (Plant Protection)
		FLD – Cowpea	Farmers, Farm women	Mr. Basavanagowda M.G., SMS (Horticulture)
	Field visits	OFT-Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Method demonstration	FLD-Cowpea	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Field visits	FLD, OFT	Farmers, Farm women	Mr. Prasannakumar N., SMS (Plant Protection)
	Method demonstrations	OFT and FLDs	Practicing farmers and farm women	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Group meetings	OFT and FLDs	Practicing farmers and farm women	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Group meetings	FLD	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Pradeep H.M., SMS (Soil Science)

June	Method Demonstration: Selection of farmers, Identification of demonstration / trial fields, Field visit.	FLD and OFT's	Farmers, Farm women	Dr. Pradeep H.M., SMS (Soil Science)
	Seminars, Field visit	FLD and OFT's	Extension officers (AO, AAO) farmers and farm women	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Field visits	FLD-Cowpea OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Training	FLD-Cowpea OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Field visits	FLD	Farmers, Extension officials	Mr. Prasannakumar N., SMS (Plant Protection)
	Method Demonstration	FLD	Farmers, Extension officials	Mr. Prasannakumar N., SMS (Plant Protection)
	Method demonstrations	OFT and FLDs	Practicing farmers and farm women	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Group meetings	OFT and FLDs	Practicing farmers and farm women	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)

	Seminar	World environment day	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Dr. Devaraja T.N., Programme Coordinator Dr. Pradeep H.M., SMS (Soil Science)
	Field visits	FLD	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Pradeep H.M., SMS (Soil Science)
	Method Demonstration	FLD	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Pradeep H.M., SMS (Soil Science)
	Method demonstration Pond preparation and fish stocking	FLDs	Farmers	Dr. Devaraja T.N., Programme Coordinator
July	<b>Method Demonstration:</b> Training, Field visit	FLD and OFT's	Farmers, Farm women	Dr. Pradeep H.M., SMS (Soil Science)
	Field visit	FLD and OFT's	Farmers, Farm women	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Field visit	FLD-Cowpea	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Campaign	OFT - Coconut	Farmers, Farm women	Mr. Basavanagowda M.G., SMS (Horticulture)

	Training	FLD – Nutritional garden	Teachers / Students	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Pradeep H.M., SMS (Soil Science)
	Seminar	FLD	Farm youth and Farm women	Mr. Prasannakumar N., SMS (Plant Protection)
	Workshop	FLD	Farm youth and Farm women	Mr. Prasannakumar N., SMS (Plant Protection)
	Animal Health Campus (Vaccination and Deworming)	OFT and FLDs	PF, FW, RY and Extension personnel	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Seminar	National Fish Farmers Day	Farmers and Department officials	Dr. Devaraja T.N., Programme Coordinator Mr. Raghuraja J., SMS (Agri. Extension) Mr. Prasannakumar N., SMS (Plant Protection)
	Field visits	FLD	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Pradeep H.M., SMS (Soil Science)
	National fish farmers Day	-	Farmers, Line Detp. Officers	Dr. Devaraja T.N., Programme Coordinator Mr. Raghuraja J., SMS (Agri. Extension)



August	Field visit: Training	FLD and OFT's	Farmers, Farm women	Dr. Pradeep H.M., SMS (Soil Science)
	Agricultural marketing	FLD and OFT's	Farmers, Farm women	Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Raghuraja J., SMS (Agri. Extension)
	Field day	FLD – Cowpea	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Devaraja T.N., Programme Coordinator
	Field visit	OFT-Betevine, FLD – Cowpea	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Seminar	OFT-Betevine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Field visit	FLD	Farmers	Mr. Prasannakumar N., SMS (Plant Protection)
	Training	FLD	Farmers	Mr. Prasannakumar N., SMS (Plant Protection)
	Animal Health Campus (Vaccination and Deworming)	OFT and FLDs	PF, FW, RY and Extension personnel	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Workshop	World Kitchen Garden Day	Farmers and Housewives	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Devaraja T.N., Programme Coordinator Mr. Raghuraja J., SMS (Agri. Extension)

	Field visits	FLD	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Pradeep H.M., SMS (Soil Science)
	Seminar	Parthenium awareness week	AO, AHO's and Progressive farmers	Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Raghuraja J., SMS (Agri. Extension)
September	<b>Field visit:</b> Training, Field day	FLD and OFT's	Farmers, Farm women	Dr. Pradeep H.M., SMS (Soil Science)
	Field Day	FLD and OFT's	AO, Farmers and Farm women	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Field visit	OFT-Betelvine, FLD – Nutritional garden	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Group discussion	FLD- Tomato	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Raghuraja J., SMS (Agri. Extension)
	Training	FLD-Tomato	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Pradeep H.M., SMS (Soil Science) Mr. Prasannakumara N., SMS (Plant Protection)
	Field day	FLD	SHG, Farmers	Mr. Prasannakumar N., SMS (Plant Protection)
	Workshop / Seminars, Exhibition	OFT	PF, FW, RY and Extension personnel	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)

	Field Day	FLD	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Pradeep H.M., SMS (Soil Science)
October	<b>Field visit:</b> Training, Field day	FLD and OFT's	Farmers: Farm women	Dr. Pradeep H.M., SMS (Soil Science)
	Field Day	FLD	AO, Farmers and Farm women	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Field visit	OFT-Betevine, FLD – Tomato, FLD – Nutritional Garden.	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Group discussion	FLD- French bean, FLD – Dolichos bean	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Raghuraja J., SMS (Agri. Extension)
	Training	FLD-French bean, FLD – Dolichos bean..	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Method demonstration	FLD-French bean, FLD- Tomato	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Workshop / Seminars, Exhibition	OFT	PF, FW, RY and Extension personnel	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Seminar	World Food Day	Farmers, Department officials and Rural youth	Mr. Raghuraja J., SMS (Agri. Extension) Dr. Devaraja T.N., Programme Coordinator Mr. Basavanagowda M.G., SMS (Horticulture)

November	Field visit: Training, Field day	FLD	Farmers and Farm women	Dr. Pradeep H.M., SMS (Soil Science)
	Field visit	FLD	AO, Farmers and Farm women	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Field visit	FLD- French bean, OFT- Betelvine, FLD – Dolichos bean, FLD- Tomato, FLD-Nutritional garden	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Training	FLD- Tomato FLD- French bean	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumara N., SMS (Plant Protection)
	Seminar	FLD- Tomato	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Pradeep H.M., SMS (Soil Science)
	Group meeting	FLD	Farmers youth, Farmers	Mr. Prasannakumar N., SMS (Plant Protection)
	Training	FLD		Mr. Prasannakumar N., SMS (Plant Protection)
	Radio / TV coverages	FLD	-	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Field days	FLD	-	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)

December	Field visit:	FLD	Farmers: Farm women	Dr. Pradeep H.M., SMS (Soil Science)
	Field day	FLD- Tomato, FLD-French bean, FLD-Dolichos gean	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Devaraja T.N., Programme Coordinator
	Seminar	FLD	SHG, Farmers youth	Mr. Prasannakumar N., SMS (Plant Protection)
	Field visit	OFT-Betelvine, FLD- Nutritional garden	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Devaraja T.N., Programme Coordinator
	Group discussion	OFT- Coconut	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Raghuraja J., SMS (Agri. Extension)
	Radio / TV coverage	FLD	-	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Field days	FLD	-	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)

	Semianr	Women in Agriculture Day	Farmers, Farmers and Rural youth	Mr. Raghuraja J., SMS (Agri. Extension) Dr. Devaraja T.N., Programme Coordinator Dr. Jayadevappa G.K., SMS (Animal Science)
		Kissan Saman Diwas	Farmers, Farmers and Rural youth	Mr. Raghuraja J., SMS (Agri. Extension) Dr. Devaraja T.N., Programme Coordinator Mr. Mallikarjuna B.O., SMS (Agronomy)
January – 2013	Field day	FLD- Nutritional garden	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Devaraja T.N., Programme Coordinator
	Training	OFT- Coconut	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Field visit	OFT- Coconut, OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Method Demonstration	OFT- Coconut	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Field visit	FLD	Farmers	Mr. Prasannakumar N., SMS (Plant Protection)
	Workshop	FLD	Farmers	Mr. Prasannakumar N., SMS (Plant Protection)
	Animal Health camps (Vaccination and Deworming)	OFT and FLDs	PF, FW, RY and Extension personnel	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)

February– 2013	Field visit	OFT- Coconut, OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Farmers interaction meet	OFT- Coconut, OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Campaign	OFT- Coconut	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Animal Health camps (Vaccination and Deworming)	OFT and FLDs	PF, FW, RY and Extension personnel	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
	Seminar	National Science Day	Farmers	Mr. Raghuraja J., SMS (Agri. Extension) Dr. Devaraja T.N., Programme Coordinator Mr. Mallikarjuna B.O., SMS (Agronomy)
March- 2013	Field visit	OFT- Coconut, OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture)
	Seminar	World Water Day	Farmers and Rural Youths	Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Devaraja T.N., Programme Coordinator Mr. Raghuraja J., SMS (Agri. Extension)
	Seminar	World Wetland Day	Farmers	Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Devaraja T.N., Programme Coordinator Mr. Raghuraja J., SMS (Agri. Extension)

	Farmers tour	OFT- Betelvine	Farmers	Mr. Basavanagowda M.G., SMS (Horticulture) Dr. Pradeep H.M., SMS (Soil Science and AC) Dr. Devaraja T.N., Programme Coordinator
	Seminar	International Women's Day	Farmers	Mr. Raghuraja J., SMS (Agri. Extension)

### 8. Activities proposed as Knowledge and Resource Centre

#### A. Technological knowledge

Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
Technology Park/ Crop cafeteria	<ul style="list-style-type: none"> <li>Local variety of ragi, field beans, castor, groundnut, linseed, paddy, redgram.</li> <li>Floriculture crop</li> </ul>	1 ha	Mr. Mallikarjuna B.O., SMS (Agronomy)
	<ul style="list-style-type: none"> <li>Collection of 10 different vegetable crop varieties released by IIHR, Bengaluru</li> </ul>	0.2	Mr. Basavanagowda M.G., SMS (Horticulture)
	<ul style="list-style-type: none"> <li>Germ plasm collection of different varieties of coconut</li> </ul>	0.2	Mr. Basavanagowda M.G., SMS (Horticulture)
	<ul style="list-style-type: none"> <li>Collection of different varieties of drumstick</li> </ul>	0.2	Mr. Basavanagowda M.G., SMS (Horticulture)



Demonstration Units	Nutritional garden with fruits and vegetables	0.2	Mr. Basavanagowda M.G., SMS (Horticulture)
	<ul style="list-style-type: none"> <li>• Fodder cutting machine</li> <li>• Milking machine</li> <li>• Azolla unit</li> <li>• Scientific Dairy Farming-6 cow unit</li> </ul>	01 01 01 01	Dr. Jayadevappa G.K., SMS (Animal Science)
	<ul style="list-style-type: none"> <li>• Live bearing ornamental fish unit: Ten different varieties of fishes are bred. Indoor and outdoor production facilities created and utilized. Several farmers are motivated to emulate.</li> </ul>	01	Dr. Devaraja T.N., Programme Coordinator
	<ul style="list-style-type: none"> <li>• Fish cum paddy production unit: Organic paddy production Effective use of space for better food and enhanced income</li> </ul>	01 (200 m <sup>2</sup> )	Dr. Devaraja T.N., Programme Coordinator
	<ul style="list-style-type: none"> <li>• Fish polyculture and horticulture integrated demo pond: IMC and Chinese carps are cultured. Vegetables, fodder slips are grown on pond dykes.</li> </ul>	01 (500 m <sup>2</sup> )	Dr. Devaraja T.N., Programme Coordinator
	<ul style="list-style-type: none"> <li>• Banana Special Production Unit</li> </ul>	01	Dr. Pradeep H.M., SMS (Soil Science)
Lab Analytical services			

Technology Week	• FLD and OFT plots	1 ha	Mr. Mallikarjuna B.O., SMS (Agronomy)
	• Varietal fodder plots	1 ha	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Vijayakumara S.B., Farm Manager
	• Frontline demonstration and on farm trails, demonstration units in the KVK instructional farm will be exhibited. An agricultural exhibition will be organized in collaboration with development department, private agri input agencies.	1 ( 5 days)	Dr. Devaraja T.N., Programme Coordinantor All the staff members.

**B. Technological Products**

Category	Name of the product	Quantity (Qtl.)/ Number	Names of the team members involved
Products	Vegetable special	5	Dr. Pradeep H.M., SMS (Soil Science)
Products	Biofertilizers- Azospirillum, Azotoboctus. PSB	10	Dr. Pradeep H.M., SMS (Soil Science)
Seeds	BRG-1 (Redgram)	10	Mr. Mallikarjuna B.O., SMS (Agronomy) Mr. Vijayakumar S.B., Farm Manager
	Drumstick-PKM-1 & KDM-1	0.1 qt	Mr. Basavanagowda M.G., SMS (Horticulture)

Planting materials	Mango seedlings	5000 no.	Mr. Basavanagowda M.G., SMS (Horticulture)
	Sapota seedlings	2000 no.	
	Drumstick seedlings	5000 no.	
	Lime seedlings	5000 no.	
	Ornamental palms	500 no.	
	Arecanut seedlings	5000 no.	
	Fodder cuttings	50,000 cuttings	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Vijayakumara S.B., Farm Manager
	Azolla culture	30-40 kilo	Dr. Jayadevappa G.K., SMS (Animal Science)
Bio-products	Trichoderma viridae	300 kg	Mr. Prasannakumar N., SMS (Plant Protection)
	Vermicompost	10-15 tonnes	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Mallikarjuna B.O., SMS (Agronomy)
	Earth worms	25-30 kgs	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Mallikarjuna B.O. SMS (Agronomy)
Livestock strains	Crossbred cows	2-3 No.s	Dr. Jayadevappa G.K., SMS (Animal Science)
	Sheep breeds	15-20 no.s	Dr. Jayadevappa G.K., SMS (Animal Science)
Fish fingerlings	Ornamental fishes	10,000	Dr. Devaraja T.N., Programme Coordinator
	Indian major carp- catla – fish seeds	10 lakhs	
	Common carp seeds	05 lakhs	

**C. Technological Information**

<b>Category</b>	<b>Technological capsules / Number</b>	<b>Names of the team members involved</b>
Technology backstopping to line departments-	Nutritional gardening New varieties / hybrids released by IIHR	Mr. Basavanagowda M.G., SMS (Horticulture)
Horticulture	Horticulture nursery management	Dr. Pradeep H.M., SMS (Soil Science)
	IPDM in horticulture crops	Mr. Prasannakumar N., SMS (Plant Protection)
	Banana Special –micronutrient / management in banana	Dr. Pradeep H.M., SMS (Soil Science)
	Vegetable Special- micronutrient management in vegetables	
	Tank silt – a bane or boon.	
	Green manuring at intercropping in plantation crops.	
	Fisheries and aquaculture information for extension officers	Dr. Devaraja T.N., Programme Coordinator
Agriculture	Micronutrient management in rice and maize. Bio fertilizers importance in field crops	Dr. Pradeep H.M., SMS (Soil Science)
	Management of leaf reddening in cotton	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Management of boll dropping in cotton through the spraying of KNO <sub>3</sub>	Mr. Mallikarjuna B.O., SMS (Agronomy)
	IPDM in agriculture crops	Mr. Prasannakumar N., SMS (Plant Protection)
	Fisheries and aquaculture information for extension officers	Dr. Devaraja T.N., Programme Coordinator

Animal Husbandry	To popularize the production of DHN-6 fodder crops among dairy farmers- 100 no.s	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Mallikarjuna B.O., SMS (Agronomy)
	To popularize the production of azolla among dairy farmers- 100 no.s	Dr. Jayadevappa G.K., SMS (Animal Science)
	Fisheries and aquaculture information for extension officers	Dr. Devaraja T.N., Programme Coordinator
Fisheries	Fish fingerlings supply to farmers linked to department	Dr. Devaraja T.N., Programme Coordinator
	Literature	
Agricultural Engineering		
Sericulture	01	Mr. Prasannakumar N., SMS (Plant Protection)
	Fisheries and aquaculture information for extension officers	Dr. Devaraja T.N., Programme Coordinator
<b>Literature/publication</b>		
Folder	Integrated nutrient management in maize	Dr. Pradeep H.M., SMS (Soil Science)
	Integrated nutrient management in rice	
Pamphlet	Velvet beans- a beneficial green manuring crop in plantation crops	Dr. Pradeep H.M., SMS (Soil Science)
	Farm implements and its usage – 1,000/-	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Management of leaf reddening, square drying and boll drying in cotton- 1000	Mr. Mallikarjuna B.O., SMS (Agronomy)
	Mechanization in paddy	Mr. Mallikarjuna B.O., SMS (Agronomy)

Pamphlet	1000 no.s	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Raghuraja J., SMS (Agri. Extension)
Booklet	Advanced cultivation practices of banana	Dr. Pradeep H.M., SMS (Soil Science) Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumara N., SMS (Plant Protection)
	Pest management in maize	Mr. Prasannakumar N., SMS (Plant Protection)
	'Recent advances in production technology of Arecanut- 1000 copies	Mr. Basavanagowda M.G., SMS (Horticulture) Mr. Prasannakumar N., SMS (Plant Protection) Mr. Raghuraja J., SMS (Agri. Extension) Dr. Devaraja T.N., Programme Coordinantor
Leaf lets	05	Mr. Basavanagowda M.G., SMS (Horticulture)
	03	Mr. Prasannakumara N., SMS (Plant Protection)
Folders	05	Dr. Pradeep H.M., SMS (Soil Science)
	05	Mr. Prasannakumar N., SMS (Plant Protection)
	05	Dr. Devaraja T.N., Programme Coordinator
Technical Bulletins	02	Dr. Devaraja T.N., Programme Coordinator

<b>Electronic Media:</b> Radio talk	Green manuring in Arecanut	Dr. Pradeep H.M., SMS (Soil Science)
	Banana special – a micronutrient mixture for enhancing yield	
	Mechanization in paddy	Mr. Mallikarjuna B.O., SMS (Agronomy)
	05	Mr. Basavanagowda M.G., SMS (Horticulture)
	05	Mr. Prasannakumar N., SMS (Plant Protection)
	02	Dr. Jayadevappa G.K., SMS (Animal Science)
	02	Dr. Devaraja T.N., Programme Coordinator
TV Programmes	05	Mr. Basavanagowda M.G., SMS (Horticulture)
	05	Mr. Prasannakumara N., SMS (Plant Protection)
	01	Dr. Jayadevappa G.K., SMS (Animal Science)
	02	Dr. Devaraja T.N., Programme Coordinator
Kisan Mobile Advisory Services	> 50	Dr. Jayadevappa G.K., SMS (Animal Science) Mr. Santhosh B., Computer Programmer
	100 no.s	Dr. Devaraja T.N., Programme Coordinator All SMS and Computer programme
Information on centre/state sector schemes and service providers in the district.	List of Service Providers in the district *	Mr. Raghuraja J., SMS (Agri. Extension) Dr. Devaraja T.N., Programme Coordinator

**\* Details of the Service Providers in the district**

<b>Particulars</b>	<b>Name of the official / Head of the Organization at district level</b>	<b>Designation</b>	<b>Mobile Number if available</b>	<b>Full Postal address of the Organization with Pin code</b>	<b>Telephone Number (s) Official (O) Residence (R)</b>	<b>Fax Number of the Organization if available</b>	<b>Email id of the Organization if available</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
District Collector	Sri Pattana Shetty	Deputy commissioner	09448138668	Deputy commissioner. Opp.KSRTC bus stand. Davangere-577001	08192 234640	08192 - 270490	<a href="mailto:deodavanagere@gmail.com">deodavanagere@gmail.com</a>
Krishi Vigyan Kendra	Dr. Devaraja T.N	Programme Coordinator	09449856876	Tarabalu Krishi Vigyan Kendra. Kadalivana. LIC Colony. BIET Road. Davanagere. Karnataka-577004	08192 263462	08192 - 260969	<a href="mailto:dvgtkvk@yahoo.com">dvgtkvk@yahoo.com</a>
ATMA Head	Dr. R.G. Goller		0944908282 9	Joint Director of Agriculture. Bamboo Bazare. Davanagere-577001 Karnataka	08192-230311	08192 - 253981	<a href="mailto:agridvg@gmail.com">agridvg@gmail.com</a>



1	2	3	4	5	6	7	8
NABARD. Manager	Mr. Kalyanaraman	Manager	09448283023	NABARD. Vidyanagara main road. Davanagere 577004. Karnataka			
Lead Bank Officer	Sri N. T. Erriswamy	Lead Bank Manager	09901909672	Canara Bank Regional Office P.J.Extn. Davanagere 577 001. Karnataka			<a href="mailto:lbodavanagere@canarabank.com">lbodavanagere@canarabank.com</a>
Department of Agriculture Marketing	--	Assistant Director		Assistant Director Dept. Agri. Marketing, APMC yard, Davanagere 577 003 Karnataka	08192 - 250354	08192 - 250354	<a href="mailto:adofficedvg@rediffmail.com">adofficedvg@rediffmail.com</a>
Regulated Market							
District Cooperative Bank	--	Managing Director		District Credit Cooperative Bank Jantatha Bazar Building, PB Road, Davanagere 577 002 Karnataka	08192 - 257370		
Joint Director of Agriculture	Dr. R.G. Goller		09449082829	Joint Director of Agriculture. Bamboo Bazare. Davanagere- 577001 Karnataka	08192 - 230311	08192 - 253981	<a href="mailto:agridvg@gmail.com">agridvg@gmail.com</a>
Deputy Director of Agriculture	Mr. Srinivas Chinthala	Deputy Director of Agriculture	09886624039	Joint Director of Agriculture. Bamboo Bazare. Davanagere- 577001 Karnataka	08192 - 230311	08192 - 253981	<a href="mailto:agridvg@gmail.com">agridvg@gmail.com</a>

1	2	3	4	5	6	7	8
Assistant Director of Agriculture	S. B. Rajashekharappa	Assistant Director of Agriculture	09448415557	Joint Director of Agriculture. Bamboo Bazare. Davanagere-577001 Karnataka	08192 - 250084	08192 - 253981	<a href="mailto:agridvg@gmail.com">agridvg@gmail.com</a>
Joint Director of Horticulture							
Deputy Director of Horticulture	Dr.Kadiregowda	Deputy Director of Horticulture	0944841925	Department of Horticulture (Near Aruna Theater) PB Road Davanagere 577001 Karnataka	08192 - 237629	08192 - 237629	<a href="mailto:tdhdavanagere@yahoo.com">tdhdavanagere@yahoo.com</a>
Senior Assistant Director of Horticulture / Equivalent cadre	Mr. Channaveerappa G. S.	Senior Assistant Director of Horticulture	09986948110	Department of Horticulture (Near Aruna Theater) PB Road Davanagere 577001 Karnataka	08192 - 250153	08192 - 237629	<a href="mailto:tdhdavanagere@yahoo.com">tdhdavanagere@yahoo.com</a>

Assistant Director of Animal Sciences / equivalent cadre	Dr. P.Maheshvaragowda	Deputy Director Animal Science	09448759274	Department of Animal Husbandary and Veterinary Science, Opp. Aruna Theater, PB Road Davanagere 577 001 Karnataka	08192 - 233532	08192 – 231595	<a href="mailto:ddvetdvg@gmail.com">ddvetdvg@gmail.com</a>
Executive Engineer Department of Agricultural Engineering							
Assistant Director of Fisheries / equivalent cadre	Dr. R. Jayanna	Senior Assistant Director of Fisheries		Senior Assistant Director of Fisheries Shamanur Road Near Ashreya Hospital MCC 'A' Block Davanagere 577 004 Karnataka	08192 – 226173		<a href="mailto:fishfisheries@yahoo.com">fishfisheries@yahoo.com</a>

Assistant Director of Forestry / equivalent cadre	Sri K. Nagaraj	Deputy Conservator of Forest. Social Forestry	09449863626	Department of Forestry. Social Forestry Division National High Way Bypass Near Zilla Panchayath Davanagere Karnataka	08192 – 261350	08192 – 261350	<a href="mailto:sfdvn_dvg@yahoo.com">sfdvn_dvg@yahoo.com</a>
Assistant Director of Sericulture / equivalent cadre (if applicable)	--	Deputy Director Sericulture Department		Department of Sericulture. APMC yard Near Cattle Market Davanagere. Karnataka	08192 - 232952	08192 - 232952	<a href="mailto:dydseridvg@gmail.com">dydseridvg@gmail.com</a>
Officer In Charge, Directorate of Women and Child Care	Vasudeva.V	Deputy Director. Women and child Welfare Department	09480058377	Deputy Director. Women and child Welfare Department. MCC 'B' Block Balakara Bala Mandira Building Kuvempu Nagara Davanagare 577003. Karnataka	08192 - 264056	08192 - 223115	<a href="mailto:Wcddavangere1884@rediffmail.com">Wcddavangere1884@rediffmail.com</a>

Officer In Charge, District Industrial Centre	--	Joint Director. District Industrial Centre		Joint Director. District Industrial Centre. Plot No. 76-A (P1) Karur Industrial Area PB Road Davanagere Karnataka	08192 - 232052	08192 - 232051	<a href="mailto:Jd-davangere@karnatakaindustrial.gov.in">Jd-davangere@karnatakaindustrial.gov.in</a>
Officer in Charge Small Scale Industries Development	Sri T. M. Natesh	District Officer. Small scale industries		Office of Joint Director. District Industries Centre. Davanagere 577004	08192 - 222382		
Commodity Boards viz., Rubber Board, Spice Board, Coconut Development Board, Directorate of Arecanut and Spices, Directorate of Cashew etc.							
All India Radio	Sri Vedamurthy	Programme Officer	09449357250	All India Radio JPS Colony Bhadravathi Shimoga Dist. Karnataka			

Doordarshan	Sri Purandar Lokikere	Etv Annadata Reporter	09901269094	E-tv kannada. Annadata section E-tv kannadaoffice Davanagere			<a href="mailto:purandarlokikere@rediffmail.com">purandarlokikere@rediffmail.com</a>
Press and Media	Sri Raviraj H G	District Officer Information and Publicity	08050793904	District Officer Information and Publicity Officer, Davanagere 577 006 Karnataka			<a href="mailto:kushalmati@gmail.com">kushalmati@gmail.com</a>

**Any other service provider (s) not covered above**

Particulars	Name of the official / Head of the Organization at district level	Designation	Mobile Number if available	Full Postal address of the Organization with Pincode	Telephone Number (s) Official (O) Residence (R)	Fax Number of the Organization if available	Email id of the Organization if available
1	2	3	4	5	6	7	8
Zilla Panchayath	Sri Gutti Jambunath	Chief Executive Officer	09480863000	Zilla Panchayath National Highway Bi pass. Davanagere 577 002 Karnataka	08192 - 261485	08192 - 261865	<a href="mailto:zpdavanagere@gmail.com">zpdavanagere@gmail.com</a>

Zilla Panchayath	Sri Shadaksharappa	Deputy Secretary	09448309636	Zilla Panchayath National Highway Bi pass. Davanagere 577 002 Karnataka	08192 - 261485	08192 - 261865	<a href="mailto:zpdavanagere@gmail.com">zpdavanagere@gmail.com</a>
Zilla Panchayath	Sri Shivalingaiiah M G	Project Director Davanagere	09480863008	Zilla Panchayath National Highway Bi pass. Davanagere 577 002 Karnataka	08192 - 261485	08192 - 261865	<a href="mailto:zpdavanagere@gmail.com">zpdavanagere@gmail.com</a>
Zilla Panchayath	Sri Prabhudeva L S	Executive officer Davanagere taluk	09448443796 09480863002	Zilla Panchayath National Highway Bi pass. Davanagere 577 002 Karnataka	08192 - 261485	08192 - 261865	<a href="mailto:zpdavanagere@gmail.com">zpdavanagere@gmail.com</a>
Regular Forestry	Sri S. Kumaraswamy	District Forest Officer.	09449839339	Department of Forestry. Regular Forestry National High Way Bipass Near Zilla Panchayath Davanagere Karnataka	08192 - 262527		

Education	Sri Bella Shetty	Deputy Director Public Instruction	09448999338	Deputy Director Public Instruction. Govt. High School, PB Road Davanagere 577 002 Karnataka	08192 - 231607		
Health	Dr. Sumitra Devi	District Health Officer	09448234950	District Health Officer Chigateri Govt. Hospital Gundi Circle Davanagere 577 002 Karnataka			
Watershed Department	Dr. Sadashiva	Deputy Director	09448641163	Deputy Director. District Watershed Development Department. Hadadi Road Davanagere 577 004 Karnataka	08192 – 222587		<a href="mailto:dwdvg@yahoo.com">dwdvg@yahoo.com</a>
Nirmithi Kendra	Sri Rajanna	District Manager	09448287528	Nirmithi Kendra, Industrial Area Davanagere Karnataka	08192 – 262650		



Food and civil supplies	Dr. Rameshwarappa	Deputy Director	09448992026	Department of Food and Civil Supplies. DC Office Opp KSRTC bustand, Davanagere 577 003 Karnataka	08192 – 251552		
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### 9. ADDITIONAL ACTIVITIES PLANNED

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1.	National Initiative on Climate Resilient Agriculture (NICRA)	Technology demonstration component	<b>NRM</b>		Dr. Devaraja T.N., Programme Coordinator Mr. Mallikarjuna B.O., SMS (Agronomy) Dr. Jayadevappa G.K., SMS (Animal Science)
			<ul style="list-style-type: none"> <li>• Farm ponds and fish ponds- 5,00,000-00</li> <li>• Trench cum bunds- 5,00,000-00</li> <li>• Contour bunds - 1,00,000-00</li> <li>• Village tank silting 5,00,000-00</li> <li>• Borewell recharge- 5,00,000-00</li> <li>• Forest sapling planting including water tanker- 8,00,000-00</li> </ul>		
			<b>Live stock and fisheries</b>		
			<ul style="list-style-type: none"> <li>• Azolla unit- 10 units 50,000-00</li> <li>• Fodder banks 25,000-00</li> <li>• Fodder varieties (3 types)</li> <li>• Mineral block units (2 no.s) 1,00,000-00</li> <li>• Animal Health Camps (5no.s) 50,000-00</li> <li>• Aquaculture Integrated Fish Farming 1,00,000-00</li> </ul>		
			<b>Crop production</b>		
			Drought tolerant minor millets production technology (20 ha.)	50,000-00	

			<b>Capacity building</b> Exposure visits to the farmers (4 no.s) <ul style="list-style-type: none"> <li>• CRIDA</li> <li>• ICRISAT</li> <li>• UAS, Dharwad</li> <li>• UAS, Bengaluru</li> <li>• Training to the Nodal Officers at other institutes working on climate change</li> </ul>	2,00,000-00	
			<b>Implements for custom hiring</b> Tractor drawn Rotavator Disc harrow	2,00,000-00	
			<b>Total</b>	<b>36,75,000-00</b>	
2	Department of Biotechnology	Creation of bio resource complex	Crop production, live stock production for rural livelihood security. Seminars, workshops	6.4 lakhs	Dr. Devaraja T.N. Programme Coordinator Mr. Raghuraja J. SMS (Agril. Extension) Mr. Mallikarjuna B.O. SMS (Agronomy) Mr. Basavanagowda M.G. SMS (Horticulture) Dr. Jayadevappa G.K. SMS (Animal Science) Mr. Prasannakumar N. SMS (Plant Protection) Dr. Pradeep H.M., SMS (Soil Science) Mr. Vijayakumar S.B. Farm Manager
			<b>Total</b>	<b>6.4 lakhs</b>	

3	Karnataka State Bio fuel development board, Bengaluru	Bio fuel information and demo centre	Production of bio fuel	<b>8.65 lakhs</b>	Dr. Devaraja T.N. SMS (Agri. Extension) Mr. Prasannakumara N. SMS (Plant protection)
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**10.A. Revolving Fund - Financial Status (Rs. in Lakhs) :**

Particulars	Opening Balance as on 01.04.2011	Expenditure Incurred during 2011-12	Receipts during 2011-12	Closing Balance as on 31.01.2012
	0.695			
Agri.Extension Activities		0.542	0.340	-0.202
Agronomy Wing Activities		0.097	0.102	0.005
Animal Science Unit		2.924	3.134	0.210
Farmers Hostel		7.169	7.699	0.530
Farm Manager Activities		3.975	2.074	-1.901
Fishery Unit Activities		0.241	0.335	0.094
Horticulture Unit		0.886	1.725	0.839
Soil Science Wing		1.543	2.794	1.251
Plant Protection Division		0.131	0.264	0.133
Audit Fee		0.020		
Bank Charges		0.010		
Greenery Maintenance		0.431	0.012	
Advances for Activities		0.889		
<b>TOTAL</b>	<b>0.695</b>	<b>18.858</b>	<b>18.479</b>	<b>0.316</b>

**B. Plan of activities**

<b>S.No.</b>	<b>Proposed activities</b>	<b>Expected output</b>	<b>Anticipated income (Rs.)</b>	<b>Names of the team members involved</b>
1	Redgram seed production	10 qt	60,000-00	Farm Manager SMS (Agronomy)
2	Sugarcane setts seed production and commercial	30 + 30	90,000-00	Farm Manager SMS (Agronomy)
3	Floriculture – Rose cultivation			Farm Manager
4	Vermicompost manure production	20 tones	60,000-00	Farm Manager
5	Banana cultivation	4-5 ton	40,000-00	Farm Manager SMS (Agronomy)
6	Native seed production crop cafetria	-	-	Farm Manager SMS (Agronomy)
7	Velvet beans seed production	5 qt.	25,000-00	Farm Manager
8	Crossbred cow dairy unit	8000-10,000 lt of milk	1.5 to 2.0 lakh	Dr. Jayadevappa G.K. SMS (Animal Science) Mr. Vijayakumara S.B. Farm Manager
9	Sheep rearing	800-1000 kg meat	1.5 to 2.0 lakh	Dr. Jayadevappa G.K. SMS (Animal Science)
10	Vermicompost production	10-15 tonnes	50,000- 75,000	Dr. Jayadevappa G.K. SMS (Animal Science) Mr. Mallikarjuna B.O. SMS (Agronomy)

11	Earthworms production	25 kg	6250-00	Dr. Jayadevappa G.K. SMS (Animal Science) Mr. Mallikarjuna B.O. SMS (Agronomy)
12	Ornamental fish production	10000 no.	20000-00	Dr. Devaraja T.N. Programme Coordinator
13	Fish cum paddy production unit	1.5 q paddy 100 kg fish	1000-00 5000-00	Dr. Devaraja T.N. Programme Coordinator
14.	Carp portable hatchery	10 lakhs fish fingerling	25000-00	Dr. Devaraja T.N. Programme Coordinator
15.	Horticulture nursery	20000 plants	1.5 lakh	Mr. Basavanagowda M.G. SMS (Horticulture)
16.	Banana Special	2000 kg	280000-00	Dr. Pradeep H.M., SMS (Soil Science)

#### 11. Activities of soil, water and plant testing laboratory

Type	No.of samples to be analyzed	Names of the team members involved
Soil	500	Dr. Pradeep H.M., SMS (Soil Science)
Water	400	Dr. Pradeep H.M., SMS (Soil Science)
Plant	-	
Others	-	

**12. E-linkage**

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
1	Creation of web-site	-	Website created www.taralabalukvk.com and district profile and KVK activity village map is uploaded to it.
2	Title of the technology module to be prepared		
3	Creation and maintenance of relevant database system for KVK	Will be completed by May-2012	
4	Any other (Please specify)		

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

S. No	Activities planned	Remarks if any

**14. Innovative Farmer's Meet**

Particulars	Details
Are you planning for conducting Farm Innovators meet in your district?	Yes
If Yes likely month of the meet	December 2012
Brief action plan in this regard	Progressive and innovative farmers will be identified with the help departments of agriculture, horticulture and veterinary in the district. Ten such special farmers will be invited to KVK to address the gathering of interested farmers. This interactive meet will be the platform to share their unique profitable farming and non – farm experiences for the benefit of all.

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

<b>S. No</b>	<b>Thematic area</b>	<b>Title of the FFS</b>	<b>Budget proposed in Rs.</b>
1.	Integrated nutrient management Integrated pest and disease management	Integrated crop management in banana.	Critical inputs: 3500-00 Meals and Refreshment 3000-00 FFS kit: 10000-00 Exposure visit: 5000-00 Literature: 3500-00
		<b>Total</b>	<b>25,000-00</b>



## 16. Budget

## A. Details of budget utilization (2011-12) upto 31 January 2012

<b>16.A. Details of Budget Utilization Upto 31st Jan.2012 (Rs. In Lakh)</b>				
Sl. No.	Name of the Head	Sanction	Release	Expenditure
1	2	3	4	8
	<b>Opening Balance as on 1.4.2011</b>		0.46	
<b>A] RECURRING ITEMS :</b>				
1	(a) Pay & Allowances	38.00	37.54	47.31
2	Travelling Allowances	1.00	1.00	1.00
3	Contingencies	8.00	8.00	6.69
	[A] Office Contingency	1.60	1.60	1.60
	[B] POL, Hiring, Maintenance of Vehicles	1.40	1.40	1.40
	[C] Stipend / Meals for Trainees	0.75	0.75	0.42
	[D] Teaching Materials for Training	0.25	0.25	0.23
	[E] FLD (Other than Oilseeds & Pulses)	2.50	2.50	2.13
	[F] OFT - On Farm Testing	0.75	0.75	0.43
	[G] Training to Extension Personnel	0.10	0.10	0.09
	[H] Maintenance of Buildings	0.15	0.15	0.00
	[ I ] Extension Activities	0.20	0.20	0.19
	[J] Farmers Field School	0.25	0.25	0.15
	[k] Maintenance of Library	0.05	0.05	0.05
	<b>Total - A</b>	<b>47.00</b>	<b>46.54</b>	<b>55.00</b>
<b>B] NON-RECURRING ITEMS :</b>				
1	Works :	0.00	0.00	0.00
2	Equipments & Furniture	0.00	0.00	0.00
3	Vehicle	0.00	0.00	0.00
4	Library (Books & Journals)	0.00	0.00	0.00
	<b>Total - B</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>C] REVOLVING FUND :</b>				
		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>GRAND TOTAL (A + B + C)</b>	<b>47.00</b>	<b>46.54</b>	<b>55.00</b>
	<b>Closing Balance as on 31.1.2012</b>		<b>-8.00</b>	

**B.Details of Budget Estimate (2012-13) based on proposed action plan**

<b>16.B. Details of Budget Estimate (2012-13 based on proposed action plan</b>		
<b>Sl. No.</b>	<b>Particulars</b>	<b>BE 2012-13 Proposed</b>
1	2	3
<b>A] RECURRING ITEMS :</b>		
1	Pay & Allowances	86.12
2	Travelling Allowances	3.00
3	Contingencies	16.05
	[a] Office Contingency - Stationery, Postage, etc.	3.00
	[b] POL, Hiring, Maintenance of Vehicles	2.00
	[c] Meals / Refreshment for Trainees	1.50
	[d] Teaching Materials for Training	0.65
	[e] Front Lione Demonstrations (FLD)	5.00
	[f] OFT - On Farm Testing	2.00
	[g] Training to Extension Personnel	0.30
	[h] Maintenance of Building	0.50
	[i] Extension Activities	0.50
	[j] Farmers Field School	0.50
	[k] Mtc. of Library	0.10
	<b>Total - A</b>	<b>105.17</b>

<b>B] NON-RECURRING ITEMS :</b>		
1	Works :	141.94
	[01] Seminar-Cum-Exhibition Hall, 200 Sqms.	26.00
	[02] Auditorium, 200 Sqms.	30.00
	[03] Ornamental Fish Tanks & Shed, 300 Sqms.	15.00
	[04] Farm Pond for Fish Harvesting (300 x 30 x 30 x 10 m <sup>3</sup> )	5.04
	[05] Additional Staff Quarters, 300 Sqm	42.00
	[06] Vehicle Implements Shed	3.00
	[07] Storage Godown	3.00
	[08] Over Head Water Tank	17.90
2	Equipments and Furniture	95.18
a)	Farm Development	2.00
b)	Agricultural Equipments	54.70
c)	Office Equipments	21.96
d)	A.V.Aids	8.22
e)	Furniture & Furnishing	7.30
f)	Library Establishment	1.00
8	Establishment of Demon. Units :	2.10
9	Vehicle	15.30
	<b>Total - B</b>	<b>254.52</b>
<b>C] REVOLVING FUND :</b>		
	<b>GRAND TOTAL (A + B + C)</b>	<b>359.69</b>