ZONAL PROJECT DIRECTORATE – ZONE VIII BANGALORE

ACTION PLAN OF TARALABALU KRISHI VIGYAN KENDRA 2015-16

1. General information about the Krishi Vigyan Kendra

1.1	Name and address of KVK with Phone, Fax and e-mail	:	Taralabalu Krishi Vigyan Kendra Kadalivana, LIC Colony Layout, BIET College Road, DAVANAGERE-577004, Karnataka Phone : 08192-263462, Fax : 08192-260969 E-Mail : dvgtkvk@yahoo.com
1.2	Name and address of host organization	:	Taralabalu Rural Development Foundation SIRIGRE-577541, Chitradurga District
1.3	Year of sanction	:	2004-05
1.4	Website address of KVK and date of last update		Website : taralabalukvk.com. 16-01-2015

2. Details of staff as on date

				If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
Sl. No.	**Sanctioned post**	**Name of the incumbent**	**Discipline**	**Current Pay Band**	**Current Grade Pay**	**Date of joining**	
2.1	Programme Coordinator	Dr.T.N.Devaraja	Fisheries	37000-67000	9000	17-05-2005	Permanent
2.2	Subject Matter Specialist	Mr.M.G.Basavanagowda	Horticulture	15600-39100	5400	21-11-2006	Permanent
2.3	Subject Matter Specialist	Mr.B.O.Mallikarjuna	Agronomy	15600-39100	5400	09-01-2008	Permanent
2.4	Subject Matter Specialist	Dr.G.K.Jayadevappa	Animal Science	15600-39100	5400	29-01-2008	Permanent
2.5	Subject Matter Specialist	Mr.Raghuraja J.	Agri Extn	15600-39100	5400	23-06-2008	Permanent
2.6	Subject Matter Specialist	Mr.Prasannakumara N.	Plant Protection	15600-39100	5400	24-06-2008	Permanent
2.7	Subject Matter Specialist	Mr.Hanumanthagouda .M.Sannagoudra	Soil Science	15600-39100	5400	01-07-2013	Permanent

2.8	Programme Assistant	Mr.Revanasiddappa GBP	Lab.Technician	9300-34800	4200	11-04-2012	Permanent
2.9	Computer Programmer	Mr.Santhosh B.	Computer	9300-34800	4200	05-09-2008	Permanent
2.10	Farm Manager	Mr.Vijayakumar S.B.	Farm Manager	9300-34800	4200	23-06-2008	Permanent
2.11	Accountant/Superintendent	Mr.Mallikarjuna S.Gudihindala	Administration	9300-34800	4200	01-06-2005	Permanent
2.12	Stenographer	Ms.Mamatha H.Melmalagi	Administration	5200-20200	2400	27-06-2005	Permanent
2.13	Driver 1	Mr.N.M.Marulasiddaiah	Driver	5200-20200	2000	01-06-2005	Permanent
2.14	Driver 2	Mr.S.Shivakumara	Driver	5200-20200	2000	01-06-2005	Permanent
2.15	Supporting staff 1	Mr.B. Shivakumara	Supporting	5200-20200	1800	01-06-2005	Permanent
2.16	Supporting staff 2	Mr.S.E.Shivakumara	Supporting	5200-20200	1800	01-06-2005	Permanent

3. Details of SAC meeting conducted during 2014-15

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2015-16
3.1	09-01-2014	Suggested to take funds from ATMA for large scale popularization of KVK technologies.	Request sent to Department of Agriculture, Davanagere to sanction funds under ATMA project for Agriculture Technology Information Week Celebration. Funds not received under the project due to shortage of fund release by Government.	**11-05-2015**
		Enlarge districts soil map and put in SWT laboratory and in office	Soil maps of Davanagere district collected from NBSS & LUP, Bengaluru and displayed in office and SWTL for the benefit of the farmer.	
		Suggested to conduct at least one impact study on improvement KVK activity.	In all 12 impact studies / case studies / success stories were conducted. Last year 'Impact of Training on' coconut climbing skill development and plant protection 'On Rural Youth Conducted'.	
		Suggested to encourage more people to take up the fisheries activities-edible and ornamental	Edible fish culture has been improving with new farmers taking up pond aquaculture. Eg.: 2 in Kundawada 6 in Devarahatti 3 in Kanchikere 1 in Chatnahalli.	

		Suggested to take up activities related to rain water harvesting, value addition and seed production.	Rain water harvesting adopted in farmers hostel building and harvested water led to fish pond (192 kg). Seed production activities in Bhendi, Velvet beans and Sunhemp were taken and in 2014-15 192 kg, Bhendi, 90 kg of velvet beans and 500 kg of Sunhemp produced in instructional farm.	
		Suggested to work in cluster of villages for 2-3 years and then move in next years. Always keep old and new clusters each year.	Accordingly 5 new clusters have been identified and 1 cluster is continued and PRA in all these clusters were conducted. KVK activities in 2015-16 will be continued in these clusters.	
		Suggested to give importance to CRMC numbers and ask them to take the NICRA project forward	New CRMC is constituted and issued guidelines for proper implementation of the NICRA project. Now the committee is involved in decision making especially to avoid climate related risks.	
		Suggested to create data base of all activities by 2014-15	Data base on soil and water test, trainings, FLDs and OFTs, Farm Advisories Services and Extension activities created.	
		Suggested to give soil analysis based recommendations to farmers, who submit samples to SWTL	Soil test based recommendations were given to farmers in written formats to all the farmers who submit samples to SWTL.	

4. Capacity Building of KVK Staff

4.1. Plan of Human Resource Development of KVK personnel during 2015-16

S. No	New Areas of Training	Institution proposed to attend	Justification
4.1.1	Dry land technique under rainfed areas to improve the yield	CRIDA and ICRISAT, Hyderabad	To Mitigate Climatic observations in Agriculture
4.1.2	Climate Resilient Management techniques under dry land condition	ICRISAT, Hyderabad	KVK comes under central dry zone and NICRA activities are going on and required upgrade knowledge.
4.1.3	IPDM in oilseed and pulses	DOR, Hyderabad	To know knowledge about IPDM

			practices to reduce cost on chemicals.
4.1.4	Management of saline soils	Central Soil Salinity Research Institute, Karnal	Jagaluru and Harapanahalli talukas comprises significant area of saline soils
	Development of national facilitators to effectively manage agriculture extension reforms	MANAGE, Hyderabad	To understand critical aspects in agricultural extension system.
	Agricultural extension management for the extension scientists of kvk	MANAGE, Hyderabad	To sharpen knowledge on extension methodologies in kvk system

4.2. Cross-learning across KVKs during 2015-16

S. No	Name of the KVK proposed		Specific learning areas
4.2.1	**Within ring**	Krishi Vigyan Kendra, Hassan	Animal science activities
		Krishi Vigyan Kendra, Kodagu	Documentation. Horticulture activities. Animal science activities
		Krishi Vigyan Kendra, Shimoga	Protected cultivation of vegetables
4.2.2	**Within the zone**	Krishi Vigyan Kendra, Pattanamthitta	Secondary Agriculture and Animal Science activities
		Krishi Vigyan Kendra, Erod, & Krishi Vigyan Kendra, Pondicherry	SHG activities.
4.2.3	**Outside zone**	Krishi Vigyan Kendra, West Godavari	NICRA Activities

5. Proposed cluster of KVKs (3 to 5 neighboring KVKs) to be formed for sharing knowledge/expertise, resources and activities during 2015-16

S.No.	Name of the KVKs included in the cluster	What do you intend to share with Cluster KVKs	What do you expect from Cluster KVKs
5.1	KVK, Dharwad	Fish seeds, Fodder slips	Seeds, Farm Machinery and secondary agriculture
5.2	KVKs, Belgaum	Banana Special	Seeds / Seedlings, NICRA activities
5.3	KVK, Gadag	Banana special, Animal science expertise	Documentation, Team spirit

6. Operational area details proposed during 2015-16

S. No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
6.1	Paddy	• Low yield	> 10,000 ha	Boragondanahalli Nagarakatte Kadaji	• FLD • Group discussion • Training • Field visit • Field day • World wet land day.
6.2	Paddy	• Low yield	20000 ha	**Deverabellakere cluster** Salkatte Halebathi Halebisleri	• FLD • Group discussion • Training • Filed visit • Field day • Method demonstration
6.3	Ragi	• Low yield	5,000 ha	Kuremaganahalli Alur	• FLD • Group discussion • Training • Filed visit • Field day • World Food Day • Method Demonstration
6.4	Maize	• Low Yield	10000ha	Kuremaganahalli	• OFT • Training • Diagnostic • Group discussion • Field visit • Field day

6.5	Bengalgram	• Low Yield	1150 ha	**Halavadandi cluster** Halekallu Halavadandi Bilichodu	• FLD • Group discussion • Training • Filed visit • Field day • Method demonstration
6.6	Groundnut	• Low yield • No seed treatment with Bio fertilizers • Non-availability of HY varieties. • Poor / Non availability of green fodder. • Improper nutrient management • Tikka leaf spot, Root rot	15,000 ha	Alur	• Group discussion • OFT • Training • Field visit • Field day
6.7	Cotton	• Low Yield	5500 ha	Kuremaganahalli	• FLD • Training • Diagnostic • Group discussion • Field visit • Field day
6.8	Sugarcane	• Low Yield	5000 ha	Boragondanahalli	• FLD • Training • Diagnostic field visit • Group discussion • Field visit • Field day
6.9	Chilli	• Low Yield	300 ha	Boragondanahalli	• FLD • Training • Diagnostic field visit • Field visit • Field day

6.10	Banana	• Low Yield	600 ha	**Boragondanahalli cluster:** Kurudi Kenchammanahaly	• FLD & OFT • Training • Method Demonstration • Field visit • Field day
6.11	Banana	• Low Yield	750 ha	**Kuremaganahalli Cluster:** Kuremaganahalli	• OFT • Training • Method Demonstration • Field day
6.12	Vegetable crops	• Low yield	1127 ha	**Boragondanahalli Cluster:** Boragondanahalli Basapura	• FLD • Training • Method Demonstration • Field day
6.13	Arecanut	• Low yield	21000 ha	**Boragondanahalli Cluster:** Boragondanahalli Basapura	• FLD • Training • Method Demonstration • Field day
6.14	Coconut	• Low yield	2189 ha	**Boragondanahalli Cluster:** Boragondanahalli Basapura	• FLD • Training • Method Demonstration • Field day
6.15	Dairy	• Lower production • Infertility • Repeat Breeding	60,000 Animals	**Boragondanahalli Cluster:** Boragondanahalli	• OFT • Training • Method Demonstration • Field day
6.16	Dairy	• Lower milk production • Low quality and unhygienic milk • Infertility & Repeat breeding	60,000 Animals	**Kuremaganahalli Cluster:** Kuremaganahalli	• FLD • Training • Method Demonstration • Field day

6.17	Sheep & Goats	• Low body weight gain • Reproductive problems • Lack of mothering ability	1,00,000 Animals	**Kuremaganahalli Cluster:** Kuremaganahalli	• FLD • Training • Method Demonstration • Field day
6.18	Fodder	• Low quality of dry roughages	500 ha	**Kuremaganahalli Cluster:** Kuremaganahalli	• FLD • Training • Method Demonstration • Field day
6.19	Fisheries	• Non availability of fish seeds		**Nagarakatte Shyagale**	• FLD • Training • Method Demonstration • Field day

7. Technology Assessment during 2015-16

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
1.	Groundnut	• Low yield	Performance assessment of Groundnut varieties for high yield under rainfed condition	T_1 –Farmers Practice (TMV-2)	UAS, Bengaluru
				T_2 – GPBD-4	UAS, Dharwad
				T_3 – ICGV-91114	CRIDA, Hyderabad
				T_4 – KCG-6	UAS, Bengaluru

Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
T_1: TMV-2	-	-	03		• Germination % • Plant height (cm) • No. of nodules / plant • No. of pods /plant • Test weight • Days to harvest • Yield (Pod and Haulm)	SMS (Agronomy, Plant Protection, Soil Science, Extension) & PC
T_2 : Seeds-GPBD-4 Trichoderma	90 kg (Pods) 6 kg	7,200-00 600-00	03	7,800-00		
T_3 : Seeds, ICGV-91114 Trichoderma	90 kg (Pods) 6 kg	7,200-00 600-00	03	7,800-00		
T_4 : Seeds KCG-6 Trichoderma	90 kg (Pods) 6 kg	7,200-00 600-00	03	7,800-00		
Total				**23,400-00**		

No. of farmers : 03
No. of trail : 12
Area : 3.0 ha

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
2.	Banana	Low Yield	Modified high density planting for increased productivity in Banana	T_1 – Square method (2.7 x 2.7 m spacing)	Farmers practice
				T_2 – Square method (1.8 x 1.8 m spacing)	UAS, Bengaluru
				T_3 – Paired row with zig zag method (1.2 x 1.2 x 2.0 m)	NRC on Banana (Trichi)

Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
T_1			03		• Bunch weight No. of hands in bunch • No. of fingers in bunch • Days to maturity of bunch yield / ha.	SMS (,Horticulture, Soil Science) & PC
T_2 : Banana TC plants	605	7865-00	03	23,595-00	• Bunch weight • No. of hands in bunch • No. of fingers in bunch • Days to maturity of bunch yield / ha	
T_3 : 1. Banana TC plants	1040	13520-00	03	40,560-00	• Bunch weight • No. of hands in bunch • No. of fingers in bunch • Days to maturity of bunch yield / ha	
2. Bunch wrapping material	1040	5200-00	03	15,600-00		
Total				**79,755-00**		

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
3	Banana	Low Yield	Assessment of different molecules for Banana Skipper management	T_1–Spraying with Chloropyriphos- 2 ml /L T_2- Spraying with Flubediamide 48 SC @0.25ml/l T_3–Spraying Chlorantraniliprole 20 SC (Coragen 20SC) @ 0.3ml/l	- UAS (B) for Paddy Leaf Folder KAU for Paddy Leaf Folder

Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
Flubendiamide	25ml	450-00	03	1350-00	• % Larval mortality • % freshly damaged leaves @ 15 & 30 DAS	SMS (Plant Protection, Horticulture) & PC
Chlorantraniliprole (Coragen 20SC)	30ml	550-00	03	1650-00		
Total		**1000-00**		**3000-00**		

No. of farmers: 03
No. of plants : 900

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
4.	Maize (Rabi/Summer)	• Low yield	Management of frequency of irrigation in Maize	TO_1 – Farmers practice TO_2 - Recommended package of practice with alternate furrow irrigation + Musk melon as live mulch TO_3 – Recommended package of practice with alternate furrow irrigation+ Hydrogel application	UAS, Bengaluru IARI, New Delhi

Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
T O_1 – Nil	-		03	-	• Frequency of irrigation • % soil moisture availability at different stages • Yield (q / ha)	SMS (Soil Science, Agronomy, Extension) & PC .
TO_2 – Musk melon seeds	50 g	400-00	03	1200.00		
TO_3 – Hydrogel	1 kg	1800-00	03	5400.00		
Total		**2200-00**		**6600-00**		

Area :1.8 ha.

S. No.	Crop/ enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology
5.	Lower production, infertility and repeat breeding in Dairy Animals	Lower production, Infertility and Repeat Breeding in Dairy animals • The nitrogen available in the urea treated paddy straw can be better utilized when sufficient quantity of starch is available in the diet. Therefore use of starch rich cereals help in unproving the microbial population by utilizing urea nitrogen in the rumen there by increasing the digestibility of paddy straw.	Effect of feeding urea treated paddy straw along with grain mixture for better performance in Dairy Animals.	**Farmers Practice:** Feeding Dairy animals with Paddy straw along with brans/cakes.	-
				Recommended Practice: Feeding Dairy animals with urea treated paddy straw along with compounded cattle feed and vitamin mineral mix.	KVAFSU, Bidar
				Alternate Practice: Feeding Dairy animals with urea treated paddy straw along with grain mixture and compounded cattle feeds and vitamin –mineral mixture.	NDRI, Karnal

Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
T_1	-	-	10	-	-	SMS (Animal Science and Agri. Extension) & PC
T_2 : Dewormer Area specific mineral mixture (ASMM)	3 g x 2 1 kg x 2 No.	120-00 300-00	05	2100-00	• Milk yield • Milk quality • Cost of feeding • Cost of milk production	
T_3 : 1. Dewormer	3 g x 2 boli	120-00	05	4600-00	• Milk yield • Milk quality • Cost of feeding • Cost of milk production	.
2. ASMM	1 kg x 2 No.	300-00				
3. Vitamin and Mineral mix	5 lt x 1	500-00				
Total				**6700-00**		

8. Technology Refinement during 2015-16 - Nil

9. Frontline Demonstrations during 2015-16

9.1 Cereal:

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1.	Cereal	Paddy	• No timely transplanting • Low yield	**Integrated crop management in rice to increase the yield through mechanization** • Green manuring crops-Daiancha. • Raising seedling in pro trays (60-70 No. / acre) or Plastic sheet (Mat Nursery-4' width & 40-60' length) • Seed rate (8-10 kg / acre). • Mechanized translating (Walk behind) • INM. • Use of conoweeder (power operated) • Power operated sprayer • Mechanized harvesting	Variety	JJL/Bpt Sona	CIAE Bhopal TNAU-TN

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Hiring charges • Mechanical transplanter • Cono weeder • Power operated sprayer	-	2000-00	10 No.	20000-00	• Soil test before and after • No. of seedling / sqm • No. of tillers / hill • Cost of production • No. of labourers / operation • Yield (q./ha)	SMS (Agronomy, Plant Protection, Soil Science, Extension) & PC
Total				**20000-00**		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2.	Cereals	Paddy	• Low Yield	**Integrated Crop Management in Paddy:** • Soil test based fertilizer application • Green manure crops. (Diancha/Sunhemp-25 kg/ha.) • Seed treatment with Carbendizim @ 4gm/kg of seed • Soil application of Azospirillum, PSB and VAM @ 2.5 kg • Spraying with neem oil @ 3ml/l in nersery • Clipping of seedlings during transplanting • Leaving one row of gap for every 3-4 m of transplanting. • Removal of weeds around bunds and use of recommended dose of fertilizers. • Soil application of *Pseudomonas fluorescence* @5kg/ha after 30 DAS • Installation of funnel traps @10/ha • Drain out excess water immediately after notice of pests. • Need based spray with Trycyclazole, Hexacocozol and Buprafezin	**Variety**	JJL/BPT	UAS, Bengaluru

Name of critical input	Qty per Demo	Cost per Demo (Rs)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Diancha/Sunhemp- Carbendizim *Azospirillum* PSB VAM Neem oil *Pseudomonas* Funnel traps Lures Tricyclazole Buprofezin	10 kg 0.1kg 1.0 kg 1.0 kg 1.0 kg 0.5L 2 kg 4 no s. 8 no.s 100 gm 0.5L	550-00 50-00 100-00 100-00 100-00 150-00 200-00 200-00 400-00 250-00 500-00	10	26000-00	• Soil test before and after • % incidence blast, sheath blight, stem borer and brown plant hopper • Yield (q/ha)	SMS (Plant Protection, Agronomy, Extension) & PC
		2600-00		**26000-00**		

9.2 Millets

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1.	Millets	Ragi	• Low yield	**Integrated Crop Management Practices in HYV Ragi (ML-365)** • Short duration ML-365 variety. • Seed treatment with biofertilizers Azosprillium, PSB, VAM @ 3 kg • Application of $ZnSO_4$ -3 kg • Use of water soluble fertilizers (at tillering stage) 19 all (1 kg) • Enrichment of fodder with 2 % urea.	Variety	ML-365	UAS, Bengaluru

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Seed	5 kg	200-00	20	16,000-00	• Soil test before and after • Plant height (cm) • No. tillers / hill • No. of fingers / ear • Yield (q/ha) • Fodder yield (t/ha)	SMS (Agronomy, Soil Science, Animal Science, Extension) & PC
Bio-fertilizers *Azoprillum*, PSB VAM	3 kg	300-00				
$ZnSO_4$	3 kg	150-00				
19:19:19	1 kg	150-00				
		800-00		**16,000-00**		

9.4. Pulses:

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1	Pulses	Bengalgram	• Low yield	**Integrated Crop Management in Bengalgram** • Use of HYV JG-11 @ 62.5 kg/ha • Seed treatment with *Trichoderma* @4gm/kg of seed • Soil application of PSB, Rhizobium and VAM @2.5 kg/ha • Use of trap crop @ 5kg/ha • Use of bird perches • Use of pheromone traps @10/ha • 1st spray with ovicidal insecticides Profenophos @ 2 ml/l	Variety	JG-11	UAS, Bengaluru

Name of critical input	Qty per Demo	Cost per Demo (Rs)	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
JG-11 *Trichoderma* Coriander *Rhizobium* PSB VAM Ha pheromone trap Profenophos	25.0 kg 1.0 kg 2.0 kg 1.0 kg 1.0 kg 1.0 kg 4.0 nos. 0.5 L	1800.0 100.0 200.0 100.0 100.0 100.0 200.0 400.0	10	30000-00	• Soil test before and after • % incidence of wilt and pod borer • Yield (q/ha)	SMS (Plant Protection, Agronomy, Extension) PC
		3000-00		**30000-00**		

9.5 Commercial Crop

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1.	Commercial crops	Cotton	• Low yield	**Integrated Crop Management in Cotton** • Soil test based fertilizer application • Maintaining Proper spacing • Spraying imidachloprid 17.8 SL @ 0.5 ml/L against sucking pests • Spraying of 1% $MgSO_4$ + 1% KNO_3 at 90 and 110 DAS • Spraying of planofix (1ml/4.5 l of water) at flowering stage	Hybrid	Bt	UAS Bengaluru

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Imidachloprid 17.8 SL	200 ML	500-00	20	37000-00	• % square dropping • % leaf reddening • Cost of production • Yield	SMS (Soil Science, Agronomy, Plant Protection) & PC
Magnesium sulphate	4 Kg	600-00				
KNO_3	4 Kg	600-00				
Planofix	100 ml	150-00				
		1850-00		**37000-00**		

Area: 8ha

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2.	Commercial	Sugarcane	• Low yield	**Sustainable Sugarcane Initiative with CO-86032** • Soil test based fertilizer application • Transplanting of single eye bud chips • Paired row planting • Drip irrigation with fertigation • Need based plant protection measures • Removal of top shoot at 2-3 leaves stage • Removal of older leaves at 5^{th} and 7^{th} month	Variety	CO-86032	TNAU

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Single eye bud seedlings	65000	15000.00	4	60,000-00	• No of tillers • Water productivity • Fertilizer use efficiency • Yield	SMS (Soil Science, Agronomy, Plant Protection, Extension) & PC
Total		**15000.00**		**60,000-00**		

Area: 1.6ha

9.6 Horticultural Crops:

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1.	Horticulture	Arecanut	• Low productivity of existing garden.	**Integrated crop Management in Arecanut** • Integrated nutrient management • Drainage in undrained soils • Use of green manure crops to increase fertility status. • Need based plant protection measures	Variety	Channagiri Local	IIHR, Bengaluru

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Velvet beans	6 kg	900-00	10	9000-00	• Soil testing before and after • Percent dropping • Percent nut splitting • Yield / ha	SMS (Horticulture, Soil Science) & PC
Total		**900-00**		**9000-00**		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2.	Horticulture	Coconut	• Low productivity of existing garden	• Drumstick (KDM-1) as intercrop in coconut gardens	Variety	KDM-1	UHS, Bagalkot

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
KDM-1	400 seedlings 10.5 acres (8 x 6 spacing)	4000-00	05	20000-00	• Soil best before and after • Intercrop yield / ha • Percent increase in net income	SMS (Horticulture, Soil Science) & PC
Total		**4000-00**		**20000-00**		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
3.	Horticulture	Dolichos Beans	• No income in pre bearing age	• Dolichos bean (Arka amogh) as inter crop in young Arecanut gardens	Variety	Arka Amogh	IIHR, Bengaluru

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Arka Amogh seeds	7.5 kg	1500-00	10	15000-00	• Soil best before and after • Yield / ha	SMS (Horticulture, Plant Protection) & PC
Total		**1500-00**		**15000-00**		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
4	Fruit crop	Banana	• Low yield	**Integrated management of sigatoka leaf spot in banana** • Removal of affected leaves and burning • Planting of seedlings in recommended spacing (6'x6'). • Adaptation of drainage system • Spray with Propiconozol (1ml/L) and Carbendizim + Mancozeb (2g/L) • Repeat the spray depending upon incidence • Soil application of *Trichoderma viridae* (12.5 kg/ha)	Hybrid	G-9	UAS (B)

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Propiconozol	0.5 L	550-0	10	16000.00	• Soil test before and after • % incidence of leaf spot • Yield (t/ha)	SMS (Plant Protection, Horticulture, Extension, Soil Science) & PC
Carbendizim + Mancozeb	1 kg	550-00				
Trichoderma viridae	5 kg	500-00				
	Total	**1600-00**		**16000-00**		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
5.	Horticulture crops	Chilli	• Low yield	**Integrated Crop Management in Chilli** • Soil test based fertilizer application • Application of bio fertilizers • Spraying imidachloprid 17.8 SL @ 0.5 ml/L & Acephate 1g/L against sucking pests • Spraying of Vegetable special	Hybrid	-	IIHR (B)

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Imidachloprid 17.8 SL Acephate VAM PSB Vegetable special	200ml 0.5 kg 1kg 1kg 3kg	500-00 300-00 100-00 100-00 450.00	10	14500-00	• Number of fruits per plant • % incidence of leaf curl • Yield (t/ha)	SMS (Soil Science, Horticulture, Plant Protection) & PC
Total		**1450-00**		**14500-00**		

Area: 4ha

9.7 Livestock:

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
1.	Livestock	Dairying	• Lower milk production • Low quality and unhygienic milk. • Infertility and Repeat breeding	**Integrated management of dairy animals for better performance (Feeding total mixed ration).**	Hybrid	Cross bred Dairy Cows (HF x , JR x)	KVAFSU, Bidar

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Dewormmer	3 g x 2 b	120-00	05	5100-00	• Milk yield • Corrected Lactometer Reading • Cost of milk production • Incidence of mastitis	SMS (Animal Science) & PC
ASMM	1 kg x 3 No.	300-00				
V & M tonic	5 lt x 1	500-00				
Saaf kit	200 ml x 1	100-00				
Total		**1020-00**		**5100-00**		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
2.	Livestock	Sheep & Goat Rearing	• Lower body weight gain • Reproductive problems • Lack mothering ability	• Balanced feeding and total deworming in small ruminants for better performance	Variety	Bellary x (Local)	KVAFSU, Bidar

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Dewormer	150 mg x 20	100-00	5 units (10 sheep/ unit)	7050-00	• Body weight gain (Fortnightly) • Reproductive parameters	SMS (Animal Science) & PC
Compounded feed	50 kg x 1	1000-00				
Liver tonic	1 lt x 1	180-00				
Special MM	1 kg x 1	130-00				
Total		**1410-00**		**7050-00**		

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
3.	Livestock	Fodder Management	• Low quality of dry roughages	• **Establishment of fodder cafeteria.**	Variety	DHN-6 + Lucerne + COFS-29 + Sesbenia	KVAFSU (Bidar)

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
DHN-6 root slips	1000 No.	500-00	05	4025-00	• Fodder yield • Cost of feeding • Animal health condition	SMS (Animal Science) & PC
Lucerne	0.25 kg	125-00				
COFS-29	0.5 kg	150-00				
Sesbenia	0.1 kg	30-00				
Total		**805-00**		**4025-00**		

9.8 Fisheries

S. No.	Category	Crop/ enterprise	Prioritized problem	Technology to be demonstrated	Specify Hybrid or Variety	Name of the Hybrid or Variety	Source of Technology
9.8	Fisheries	Fish seeds	• Inadequate availability of quality fish seeds at appropriate time.	**Common carp seed production through hapa system in farm ponds** • Selection of broods • Nourishing the broods • Breeding in hapas • Rearing the spawn and Fry	Variety	Common carp, *Cyprinus carpio*	UAS, Bengaluru

Name of critical input	Qty per Demo	Cost per Demo	No. of Demo	Total cost for the Demo (Rs.)	Parameters to be studied	Team members
Yearlings of common carp (25 females and 50 males)	75 fishes, 18.75 kg fish @ 250 g weighing each fish	1875-00	02	3750-00	• No. of seeds produced per batch of broods • % survival of spawn • C: B	Programme Coordinator & SMS (Extension)
Big Hapas	02	1500-00		3,000-00		
Small Hapas	02	1000-00		2,000-00		
Fry drag nets	01	4000-00		8000-00		
Hand nets	01	250-00		500-00		
Floating feed	50 kg @ Rs. 50 / kg	2500-00		5000-00		
Total		**11125-00**		**22250-00**		

9 a) Demonstrations under NFSM

Sl No.	Name of KVK district	FLDs proposed on			Village/Taluk	No of FLDs (1 Acre each) proposed	Budget proposed (Rs)
		Crop	**Variety**	**Technology**			
	I. FLDs on improved package in rice (varieties/hybrids, production and protection technologies) Cost Rs 3000/ demo (Acre)						
1	Davanagere	Rice	Bpt sona	**Integrated Crop Management practices in Rice** ➢ Growing green manuring crop Sunhemp/ Dhiancha 15 kg/acre ➢ Soil test based fertilizer application ➢ Application of bio fertilizers (Azospirillum, PSB and VAM- 1kg/acre each) ➢ Application weedicide (Butachlor/Petilachlor) 3 to 5 DAP 1L/acre ➢ Seed treatment with Carbendizim @ 4g/kg of seed ➢ Leaf clipping during transplanting ➢ Soil application of *Pseudomonas fluorescence* @ 2kg/acre after 30 DAS PP measures ➢ Stem Borer- Funnel traps @ 4/acre ➢ Sheath Blight- Hexaconazole @ 1L/acre ➢ BPH- Buprofezin @0.5 L /acre	Belavanuru/ Goniwada /Davangere	30 Rs.3000/demo	22,500-00 3,000-00 9,000-00 15,000-00 - - 6,000-00 6,000-00 13,500-00 15,000-00
						30	**90,000-00**
2	Davanagere	Rice	Bpt Sona	**Mechanization in Rice production System** ➢ Raising of Nursery in pro trays(60-70/ acre) or Mat Nursery(Plastic sheet- 4ft width and 40-60 ft length) ➢ Bio fertilizers (Azospirillum, PSB and VAM- 1kg/acre) Mixing with soil at time of filling to pro trays ➢ Hiring charges for transplanter, Cono weeder, Sprayer and Harvester	Kadajji Davangere	**10** Rs.3000/demo	 3,000-00 27,000-00
					Total	**10**	**30,000-00**

Sl No.	Name of KVK district	FLDs proposed on			Village/ Taluk	No of FLDs (1 Acre each) proposed	Budget proposed (Rs)
		Crop	Variety	Technology			
	II. FLDs on improved package in pulses (varieties/hybrids, production and protection technologies) Cost Rs 3000/ demo(Acre)						
1	Davnagere	Redgram	BRG-2	**<u>Redgram as Intercrop in Cereals (Maize)</u>** **Seeds- 4kg** **Soil application of Micronutrients** ➢ Application of $ZnSO_4$-5kg ➢ Application of Borax- 2kg **Seed treatment** ➢ Bio fertilisers- Rhizobium.PSB ,VAM @ 1kg each ➢ Bio- Fungicide- Trichederma-1kg **PP measures** ➢ Installation of Phermone traps @ 5N0 ➢ Profenophous- Ovicidal- 1L ➢ Neem based insticide- 1L ➢ Indaxicarb- 0.5L	Anjigere Harapanahalli	**20** Rs 3000/ demo	 12,000-00 6,000-00 6,000-00 6,000-00 2,000-00 5,000-00 9,000-00 6,000-00 8,000-00
						20	**60,000-00**
2.	Davangere	Chick pea	JG-11	**<u>Intergrated Crop Management in Chickpea</u>** **Seeds** - <u>(JG-11)</u> 25 kg /acre **Seed treatment** ➢ Bio fertlisers- Rhizobium.PSB ,VAM @3kg ➢ Bio- Fungicide- Trichederma-1kg **PP measures** ➢ Installation of Phermone traps @ 5 No. ➢ Coriander- 2kg as trap crop ➢ Profenophos - 0.5 L	Haalvadandi Jagalur	**20** Rs 3000/ demo	 37,500-00 6,000-00 2,000-00 --- 5,000-00 4,000-00 5,500-00
					Total	**20**	**60,000-00**

Sl No.	Name of KVK district	FLDs proposed on			Village/Taluk	No of FLDs (1 Acre each) proposed	Budget proposed (Rs)
		Crop	Variety	Technology			
	III. FLDs on coarse cereals -Sorghum, bajra & millets (varieties/hybrids, production and protection technologies) Cost Rs 2000/demo (Acre)						
1	Davangere	Sorghum	SPV-2217	**ICM in Sorghum for higher yield** Seeds -3kg ➢ STCR **Seed treatment** ➢ Azosprillum, VAM, PSB @ 1kg each ➢ Spraying of 19:19:19 at 30DAS (1kg/ acre) ➢ Application of $ZnSO_4$ – 5kg/acre **Weed management** ➢ Pre- emergent – Atrazine- 500g **Plant protection measures** ➢ Stem borer-Chloropyriphos 20EC-1 L (2ml/L of water) ➢ Rust- Hexaconozal -0.5L (0.5ml/L of water)	Muthigee and Chigatere Harapanahalli	**20** Rs.1880/demo	 3,600-00 4,000-00 6,000-00 3,000-00 5,000-00 5,000-00 6,000-00 5,000-00
						20	**37,600-00**
2.	Davangere	Ragi	GPU-28	**<u>ICM in HYV Ragi</u>** ➢ Seeds- 5kg @ Rs.40/kg ➢ Soil test based fertilizer application **Seed treatment/Soil application with FYM** ➢ Bio fertilizers - Azosprillium, PSB, VAM(1kg each @ Rs.100/kg ➢ Application of ZnSO4-5kg (Rs.50/kg) ➢ Use of water soluble fertilizers 19:19:19 (1%) at tillering stage 2kg @ Rs. 150/kg	Garga, Channagiri	**20** Rs.1150/demo	 4,000-00 2,000-00 6,000-00 5,000-00 6,000-00
						20	**23,000-00**

3.	Davangere	Ragi	ML-365	**ICM in HYV ragi for late kharif** ➢ Seeds- 5kg @ Rs.40/kg ➢ Soil test based fertilizer application **Seed treatment/Soil application with FYM** ➢ Bio fertilizers- Azosprillium, PSB, VAM (1kg each @ Rs.100/kg) ➢ Application of $ZnSO_4$-5kg (Rs.50/kg) ➢ Use of water soluble fertilizers 19:19:19 (1%) at tillering stage 2kg @ Rs. 150/kg	Nagarakatte Davanagere	**20** Rs.1150/demo	4,000-00 2,000-00 6,000-00 5,000-00 6,000-00
						20	**23,000-00**
4.	Davanagere	Navane	HMT-100-1	**ICM in HYV Navane late kharif** ➢ Seeds- 4kg (Rs.50/kg) ➢ Soil test based fertilizer application **Seed treatment/Soil application with FYM** ➢ Bio fertilizers- Azosprillium, PSB, VAM(1kg each @ Rs.100/kg **Micro and Macro Nutrient** ➢ Application of $ZnSO_4$-5kg (Rs.50/kg) ➢ Use of water soluble fertilizers 19:19:19 Vegetative stage 2kg @ Rs. 150/kg	Bennehalli Harapanahalli	**10** Rs.1150/demo	2,000-00 1,000-00 3,000-00 2,500-00 3,000-00
					Total	**10**	**11,500-00**

Sl No.	Name of KVK district	FLDs proposed on			Village/Taluk	No of FLDs (1 Acre each) proposed	Budget proposed (Rs)
		Crop	Variety	Technology			
	IV. FLDs on ICM in cotton - Cost Rs 2800/demo(Acre)						
1	Davangere	Cotton	Bt- Hybrid	**ICM in cotton** ➢ Soil test (B/A) ➢ Trap crop - Bhendi seeds-150g (Rs.200) ➢ Planofix-250ml @ 4ml/15 L of water ➢ $MgSO_4$- 4 kg (1%) against leaf reddening ➢ KNO_3-4 kg (2%) (increase boll size and quality of lint) **PP measures** **Sucking pest** (Aphid, thrips, jassids) ➢ Use of yellow sticky trap- 10/acre ➢ Spraying of Imdacloprid (0.5ml/L) **Mirid bug** ➢ Profenophos- 2ml/L	Halavadandi Jagalur Kuremaganahlli Harapanahalli	**40** Rs 2800/-demo	 8,000-00 8,000-00 4,000-00 24,000-00 24,000-00 12,000-00 20,000-00 12,000-00
						40	**1,12,000-00**

Abstract

Si No.	Name of Crop	Technology	No.of Demo (One acre)	Cost(Rs.)	Total Cost (Rs.)	Team Members
1.	Rice	Integrated Crop Management practices in Rice	30	3,000-00	90,000-00	SMS(Agronomy) SMS(Soil science) SMS(Plant protection) SMS (Extension) Programme Co-ordinator
2.	Rice	Mechanization in Rice production System	10	3,000-00	30,000-00	
3.	Redgram	Redgram as Intercrop in Cereals	20	3,000-00	60,000-00	
4.	Chickpea	Integrated Crop Management in Chickpea	20	3,000-00	60,000-00	
5.	Sorghum	ICM in Sorghum for higher yield	20	1,880-00	37,600-00	
6.	Ragi	ICM in HYV Ragi	20	1,150-00	23,000-00	
7.	Ragi	ICM in HYV Ragi for late kharif	20	1,150-00	23,000-00	
8.	Navane	ICM in HYV Navane for late kharif	10	1,150-00	11,500-00	
9.	Cotton	ICM in Cotton	40	2,800-00	1,12,000-00	
		Total	**190**		**4,47,100-00**	

10.Training for Farmers/ Farm Women during 2015-16

S.No.	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)	Training Course Title	No. of Courses	Expected No. of participants	Names of the team members involved
10.1	Crop Production							
	Nursery	Paddy	• No healthy seedlings	FLD	• Methods of nursery raising techniques in paddy mechanized transplanting	01	25	SMS (Agronomy)
	Green mnauring crops INM	Paddy	• Soil fertility status	FLD	• Importance of Green manuring crops in paddy	01	25	SMS (Agronomy, Soil Science)
	Transplanting	Paddy	• Labour problem and not timely transplanted	FLD	• Introduction of different transplanters	01	40	SMS (Agronomy).
	Seed treatment and sowing	Ragi	• Higher seed rate • Poor knowledge on bio – fertilizer utility	FLD	• Seed treatment with bio fertilizers • INM in Ragi	01 01	25 25	SMS (Agronomy)
	Integrated crop management	Groundnut	• Non availability of quality seed for sowing • No seed treatment • Root rot, tikka leaf disease • Poor fodder quality	OFT	• Seed selection duration and production technology in Groundnut • Integrated pest management in Groundnut	01 01	20 20	SMS (Agronomy)
	Weed management	Paddy	• Labour cost is very high • No timely weed management	FLD	• Use of conoweeders for weed management	01	40	SMS (Agronomy)

10.2	Horticulture Production							
	Plantation Crops Production and Management Technology	**Arecanut**	• Dropping of nuts • Splitting of nuts • Hidimundige Syndroms • Poor root respiration	FLD	• Integrated crop management in Arecanut • Suitable intercrops in young Arecanut gardens	03 03	150 150	SMS (Horticulutre, Plant Protection and Soil Science)
		Coconut	• Dropping of nuts • Poor yield • CBHC and mites infestation • Poor utilization of intercrops	FLD	• Popularization of KDM-1 drumsticks as intercrop in Coconut • ICM in Coconut	03 03	150 150	SMS (Horticulutre, Plant Protection and Soil Science)
	Fruit Crops Cultivation of fruit	Banana	• Micronutrient deficiency • Low bunch weight • Low productivity per unit area	OFT	• Modified high density planting for increase of productivity in Banana	03	150	SMS (Horticulutre, Plant Protection and Soil Science)
	Vegetable Crops Off season vegetables	Dolichos Bean	• Lack of day neutral varieties • Low productivity	FLD	• Production technology of vegetable crops	02	100	SMS (Horticulutre, Plant Protection and Soil Science)
	Ornamental Plants Nursery Management	Flower crops	• Use of local varieties • Lack of quality seeds / planting materials.	-	• Nursery techniques in Horticulture crops	01	50	SMS (Horticulutre and Soil Science)
10.3	Livestock Production							
	Animal nutrition management	Dairying	• Lower milk production • Repeat breeding in Dairy cows • Low milk quality	FLD & OFT	• Balanced nutrition in dairy animals • Importance of macro and micro minerals in production and reproduction	02 02	50 50	SMS (Animal Science)

	Sheep and Goats Management	Rearing small ruminants	• Lower body weight gain • Endoparasites • Delayed puberty	FLD	• Advantages of stall feeding methods in small ruminants • Importance of minerals feeding in small ruminants	02 01	50 30	SMS (Animal Science)
	Feeding & Fodder technology	Livestock rearing	• Under nutrition in Dairy animals • Un favourable rumen fermentation leading to deficiency of nutrients	OFT	• Preparation and use of total mixed rations for better performance in dairy animals	02	50	SMS (Animal Science)
	Animal Disease Management	Livestock rearing	• Infections / Contageous diseases	FLD	• Prevention an control of infections / contagious diseases in livestock's	02	50	SMS (Animal Science)
10.4	Home Science							
10.5	Plant Protection							
	IPM	Paddy	• Stem borer, BPH, Blast and Sheath blight problem	FLD	• Identification of symptoms of major pest and diseases in Paddy • Seed treatment with biofertilizers	02 01	50 25	SMS (Plant Protection and Soil Science)
	IPM	Bengalgram	• Pod borer and wilt incidence • No seed treatment with biofertilizers	FLD	• IPM against pod borer and wilt • Seed treatment technique against wilt disease	01 01	25 25	SMS (Plant Protection and Agronomy)
	IPM	Banana	• Sigatoka leaf spot • Banana skipper	FLD OFT	• IDM practices for leaf spot management • Identification of skipper symptoms in banana plant	02 01	50 25	SMS (Plant Protection and Horticulutre)

10.6	Production of Inputs at Site							
10.7	Soil Health and Fertility							
		Paddy	• No soil test • Excess use of fertilizers • No application of organic manure	FLD	• INM in paddy	02	50	SMS (Soil Science and Agronomy)
		Maize	• No Soil testing • Improper Nutrient management	FLD	INM in Maize	01	25	SMS (Soil Science, Agronomy)
		Cotton	• Improper nutrient management	FLD	INM in cotton	01	25	SMS (Soil Science)
		Chilli	• No use of micronutrients	FLD	INM in cotton	01	25	SMS (Soil Science and Horticulture)
		Sugarcane	• Improper nutrient management	FLD	INM in Sugarcane	01	25	SMS (Soil Science)
10.8	Capacity Building Group Dynamics							
10.9	Farm Mechanization , Transplanting	Paddy	• Labour problem and not timely transplanted	FLD	• Different transplanters in Paddy	01	40	SMS (Agronomy)
10.10	Fish seed production	Fish	• Inadequate availability of quality fish seeds at appropriate time	FLD	• Principles of carp seed production	01	20	Programme Coordinator
10.11	Mushroom production							
10.12	Agro forestry							
10.13	Bee Keeping							
10.14	Sericulture							

11. Training for Rural Youth during 2015-16

S.No.	Thematic area	Crop / Enterprise	Major problem	Related field intervention (OFT/FLD)	Training Course Title	No. of Courses	Expected No. of participants	Names of the team members involved
11.1	**Crop Production**							
	Mechanization in paddy transplanting	Paddy	• No timely transplanting	FLD	• Mechanization in paddy production system and machinery maintenance	01	30	SMS (Agronomy)
	Trash management	Sugarcane	• Burning of trash • Decomposition delayed • Deteriorating soil health • Pollution	FLD	• Soil health management for sustainable crop production • Different methods of sugarcane trash management	01	25	SMS (Agronomy and Soil Science).
	Enrichment of fodder	Ragi	• Poor quality of fodder • No enrichment during the summer	FLD	• Methods of fodder enrichment	01	20	SMS (Agronomy and Animal Science).
11.2	**Horticulture Production**							
	Post harvest Technology	Coconut	• Non availability of labours for harvesting of nuts	**FLD**	• Empowerment of Rural Youth in Coconut palm climbing	03	60	SMS (Horticulture, Plant Protection and Soil Science)
	Nursery management of Horticulture crops	Vegetable crops	• Lack of availability of good quality seedlings	-	• Nursery techniques in vegetable crops	02	50	SMS (Horticulture, Plant Protection and Soil Science)

	Integrated production	Flower crops	• Old season vegetable products	-	• Protected cultivation	02	50	SMS (Horticulture, Plant Protection and Soil Science)
11.3	**Livestock Production**							
1.	Dairying	Dairy Farming	• Lower milk production • Lower reproductive performance • Weakness in salves • Metabolic disorders in high yielding animals	OFT & FLD	• Scientific management in Dairy animals during lactation and dry period	02	40	SMS (Animal Science)
					• Calf rearing for better performance	02	40	
					• Prevention and control of metabolic disorders in dairy cows.	01	25	
2.	Poultry Production	Poultry rearing	• Lower meat and egg production	-	• Rearing Swarnadhara Poultry birds in backyard	02	40	
3.	Sheep and Goat rearing	Small ruminates rearing	• Lower body weight gain • Worm load • Disease incidences	FLD	• Advantages of stall feeding methods in small ruminants rearing	01	20	
4.	Dairying	Livestock Farming	• Lack of good quality fodder for livestock	FLD	• Silage making methods and It's advantages in Livestock management	01	25	
11.4	Home Science							

11.5	Plant Protection							
	IDM	Banana	Sigatoka leaf spot	FLD & OFT	IDM practices for leaf spot management	01	30	SMS (Plant Protection and Horticulture)
11.6	Production of Inputs at Site							
11.7	Soil Health and Fertility	Organic farming	No use of organic manure	--	Organic farming for sustainable agriculture	01	25	SMS (Soil Science)
11.8	PHT and value addition							
11.9	Capacity Building Group Dynamics							
11.10	Farm Mechanization							
11.11	Fisheries Production Technologies							
11.12	Mushroom production							
11.13	Agro forestry							
11.14	Bee Keeping							
11.15	Sericulture							

12 Training for Extension Personnel during 2015-16

S.No.	Thematic area	Training Course Title**	No. of Courses	Expected No. of participants	Names of the team members involved
12.1	**Crop Production**				
	ICM	• Production technology in Bt Cotton to increase the yield	01	150 (AO's AAO) and field level workers	SMS (Agronomy)
	ICM	• Management of Nursery	01	25 (Harihara, Davanagere taluk officers)	SMS (Agronomy)
	Soil fertility and nutrient management	• Importance of green manuring crops in paddy production system	01	25	SMS (Agronomy)
		• Integrated nutrient management for sustainable agriculture	01	25	SMS (Soil Science)
	Farm Mechanization				
	ICM	• Mechanization in paddy production system to increase the productivity	01	25 AO and AAO	
12.2	Home Science				
12.3	Capacity Building and Group Dynamics				
12.4	Horticulture				
	Integrated nutrient management	• Impact of Banna special in improving productivity of banana special in Davangere district	02	50	SMS (Horticulture and Soil Science)
12.5	Livestock Production & Management				
1.	Management of Farm Animals	• Prevention and control of infectious and cntageous diseases in livestock	02	80	SMS (Animal Science).
2.	Livestock feed and fodder production	• Silage making methods and its advantages	01	50	SMS (Animal Science).

12.6	Plant Protection				
	Crop protection	IPDM in maize and paddy	01	30	SMS (Pant Protection and Extension).
12.7	Farm Mechanization				
12.8	PHT and value addition				
12.9	Production of Inputs at Site				
12.10	Sericulture				
12.11	Fisheries				

13 Vocational trainings during 2015-16

Sl.No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Clientele (SHGs, NYKs, School students, Women, Youth etc.)	Expected No. of participants	Sponsoring agency if any	Names of the team members involved
13.1	**Crop Production**						
	Seed production	• ICM practices for seed production in summer paddy (Crossing techniques)	02	SHG, Halebisleri	20	Agriculture Department, Davanagere	SMS (Agronomy)
	Vermicomposting	• Conversion of the sugar trash in to vermicompost	01 (3 day)	Farmers	25	Agriculture Department, Davanagere	SMS (Agronomy)
13.2	Home Science						
13.3	Capacity Building and Group Dynamics						
13.4	Horticulture						
	Capacity building and Group dynamics	• Empowerment of rural youth in Coconut palm climbing	2 (6 days)	Rural Youth	40	Coconut Development Board, Bengaluru	SMS (Horticulture, Plant Protection and Soil Science)

13.5	Livestock Production & Management						
	Dairy Farming	Integrated Dairy Farming for sustainability	02 (8-10 days)	• SHGs • Rural Youth • DDFA members	80	Zilla Panchayath	SMS (Animal Science, Agronomy and Farm Mangere)
	Sheep & Goat Rearing	Stall Feeding method & it's advantages in small ruminants rearing	01 (8-10 days)	• SHGs • Mahila Mandals • Rural youth	30	Zilla Panchayath, Davanagere Co-operative Societies	SMS (Animal Science)
13.6	Plant Protection						
13.7	Farm Mechanization						
13.8	PHT and value addition						
13.9	Production of Inputs at Site						
13.10	Sericulture						
13.11	Fisheries						

.

14 Sponsored trainings during 2015-16

Sl.No.	Thematic area and the Crop/Enterprise	Training title*	No. of programmes and Duration (days)	Type of Participants (SHGs, NYKs, School students, Women, Youth etc.)	Expected number of participants	Sponsoring agency	Names of the team members involved
14.1	Crop Production						
	ICM (Maize and paddy)	Integrated crop management in maize and paddy	01	SHG farmers	30	MCF	SMS (Agronomy)
	Dairying and vermicompost production	• Methods of composting • Filling techniques of waste to pit	05 (6 days)	Selected women SHG	50	Zilla Panchayath, Davanagere	SMS (Agronomy and Animal Science)) & PC
14.2	Home Science						
14.3	Capacity Building and Group Dynamics						
14.4	Horticulture						
	Increasing production and productivity of crops	Recent trends in production technology of plantation crops	02 (03)	Youths	100	National Horticulture Mission	SMS (Horticulture and Soil Science)
	Methods of productive cultivation	Protected cultivation	01 (02)	RIG's	50	KWDP-II Sujala-III Dept. of Horticulture	SMS (Horticulture and Plant Protection)

14.5	Livestock Production & Management						
	Livestock production and management	Sustainable integrated Dairy Farming and vermicompost production for Livelihood security	5 (8 days)	Selected Rural Youth SHGs etc	250	Zillapachayath, Davangere NGOs	SMS (Animal Science)
	Livestock Production and Mangement	Stall feeding methods in small ruminants and Its advantages	2 (6 days)	Rural Youths SHGs etc.	50	Zillapachayath, Davangere	SMS (Animal Science)
14.6	Plant Protection	• IPDM in paddy	01	Field level workers	25	Dhanuka pesticides ltd	SMS (Plant Protection and Extension)
		• IPDM in paddy	01	Field level workers	25	Muktheshim Agan India Ltd.	SMS (Plant Protection and Extension)
		• IPDM in arecanut	01	Farmers	40	MCF	SMS (Plant Protection and Horticulture)
14.7	PHT and value addition						
14.8	Production of Inputs at Site						
14.9	Sericulture						
14.10	Fisheries						

15. Extension programmes during 2015-16

Extension programme	No. of programmes	No. of participants
Advisory Services	1400	1500
Diagnostic visits	10	
Field Day	21	1400
Group discussions	5	250
Kisan Ghosthi	01	150
Film Show	20	850
Kisan Mela	03	
Exhibition	05	
Scientists' visit to farmers field	75	
Plant/Soil health/Animal health camps	06	400 and 250 Animals
Farm Science Club	01	30
Ex-trainees Sammelan	01	100
Farmers' seminar/workshop	08	600
Method Demonstrations	15	200
Celebration of important days	03	110
Special day celebration	04	250
Exposure visits	05	200
Technology week	01	1000
FFS	01	25
Farm innovators meet	01	100
Others		
Kisan Mobile Advisory Services	250	3000
Radio Talk	20	
TV Talk	25	
Popular Articles	10	
News Papers Coverage	50	

16. Activities proposed as Knowledge and Resource Centre during 2015-16

16.1 Technological knowledge

Sl.No.	Category	Details of technologies	Area (ha)/ Number	Names of the team members involved
16.1.1	Technology Park/ Crop cafeteria	Demo unit		
		Different Field crops	0.2	SMS (Agronomy) & (Field Assistant)
	Vegetable Crop cafeteria	Crop cafeteria of varieties developed by IIHR Bengaluru for Davangere district	0.2 ha	SMS (Horticulture) & PC
	Fruit orchard	Drumstick Block (KDM-1) + Coconut germ plasm	0.2 ha	SMS (Horticulture) & PC
		Mixed fruit orchard	0.4 ha	
16.1.2	Demonstration Units			
	Demonstration units in the Instructional Farm + Technology week	• Bullocks unit	2	SMS (Animal Science)
		• Cross bred cow dairy unit	5- cow	SMS (Animal Science)
		• Single bucket milking machine	1	SMS (Animal Science)
		• 5 H P Chaff cutter	1	SMS (Animal Science)
		• Rubber mats	4’ x 6 ‘= 16’ No.s	SMS (Animal Science)
		• Azolla Demo unit	4’ x 8’ = 05 No.s	SMS (Animal Science)
		• Vermicompost and Vermiculture unit	4’ x 20’ x 2.5’ x9	SMS (Animal Science) Farm Manager
		• Varietal Fodder plot	1 Acre	SMS (Animal Science) Farm Manager
		• Hydroponics	2 x 1.5’ x 8 trays	SMS (Animal Science)
		• Fish hatchery	1 Unit	Programme Coordinator
	Demonstration Units (INSIMP)	Millets processing and powdering	1 unit	SMS (Agronomy) & PC
16.1.3	Lab Analytical services			
		Plant Health Clinic	1 unit	SMS (Soil Science)
		Procedures of soil and water analysis	2	SMS (Soil Science) & Lab Assistant

16.1.4	Technology Week	FLD and OFT plots	1 ha.	Programme Coordinator, All SMS and Farm Manager
		Frontline Demonstration and on farm trials, demonstration units in the KVK instructional farm will be exhibited. An agricultural exhibition will be organized in collaboration with Development Department, Agri input agencies, Seminars and Ghosties will be organized on the occasion.	1 (5 days)	All the Staff Members.

16.2 Technological Products

Sl.No.	Category	Name of the Production Partner Agency, if any	Name of the product	Quantity (q)/ Number planned to be produced during 2014-15	Names of the team members involved
16.2.1	Seeds				
16.2.2	Planting materials				
			Mango seedlings (Alphanso)	5000	SMS (Horticulture).
			Sapota seedlings (Cricket Ball)	500	SMS (Horticulture).
			Drumstick seedlings(KDM-1)	10000	SMS (Horticulture).
			Lime seedlings (Jagalur Local)	1000	SMS (Horticulture).
16.2.3	Bio-products	-			
			Banana Special	15	SMS (Horticulture).
			Vermicompost	20-25 tonnes	SMS (Animal Science) Farm Managere
			Earth worms	40-50 kgs	SMS (Animal Science)
			Biogas	10 cubt gas / day	SMS (Animal Science and Extension) .
			Trichoderma	0.75 q	SMS (Plant Protection)
16.2.4	Livestock strains		Good pedigree calves	2-3	SMS (Animal Science)
	Planting Materials		Fodder rootslips	50,000 root slips	SMS (Animal Science) Farm Manager .
			Azolla culture	250-300 kgs	SMS (Animal Science)
16.2.5	Fish fingerlings		Fisheries	To produce common carp seeds	PC
	Fish seeds	-	Common carp seeds (Fingerlings)	20,000 No.	PC
	Brood stock	-	Common carp brood stock	500 No.	PC

16.3 Technological Information

	Category	Technological capsules / Number	Names of the team members involved
16.3.1	Technology backstopping to line departments		
	Agriculture		
	Horticulture	06	SMS (Horticulture)
	Animal Husbandry Department of AH & VS, Davanagere	• Azolla production method • Fodder enrichment • Hydroponics fodder production	SMS (Animal Science)
	Plant Protection	05	SMS (Plant Protection)
	Fisheries		
	Agricultural Engineering		
	Sericulture		
	Others, pl. specify		
16.3.2	Literature/publication		
	Leaf lets	04	SMS (Horticulture)
		03	SMS (Horticulture and Extension)
	Folders	02	SMS (Horticulture and Extension)
		02	SMS (Animal Science) PC
		02	SMS (Animal Science) PC
	Books	02	SMS (Horticulture and Plant Protection)
		Book on 'Impact studies and Farm innovations'	PC and All SMS's
16.3.4	Electronic Media	1-2	SMS (Animal Science)
	Television	10	SMS (Horticulture)
		06	SMS (Plant Protection)
	Radio	05	SMS (Horticulture).
		04	SMS (Plant Protection)
16.3.5	Kisan Mobile Advisory Services	100	PC All SMS and Computer Programme
		15-20	SMS (Animal Science) Computer Programme
16.3.6	Information on centre/state sector schemes and service providers in the district.	Book on 'Service providers of the district and centre/state sector schemes'	PC and All SMS's

17. Additional Activities Planned during 2015-16

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
17.1	Comprehensive Horticulture Development Scheme (CHD), Depat. Of Horticulture, Govt. of Karnataka	Training	2 Trainings for the 100 Banana farmers on value addition	25,000/-	SMS (Horticulutre)
17.2	Plant Health Clinic	Plant diagnosis	• Diagnosis of affected plant samples	-	SMS (Plant Protection)
17.3	Agriculture Technology Management Agency (ATMA)	Training	2 Trainings for 100 unemployed rural youths	1,50,000/-	SMS (Horticulutre)
17.4	ATMA, Department of Agriculture, Davanagere	Artificial Insemination service	AI service with good breed semen, 150-200 AT / Month	1,50,000/-	SMS (Animal Science) DDFA
17.5	NICRA	Crop technology demonstration	-	-	PC SMS (Agronomy and Animal Science)
17.6	INSIMP	Millet processing and powdering	Grading and cleaning Powdering	-	SMS (Agronomy)
17.7	KSTA, Bengaluru	State Seminar	One state level seminar on Pulses for nutritional security	2,00,000/-	SMS (Agronomy) & PC
17.8	NABARD, Davangere	Innovative Farmers Meet	Seminars by the innovative farmers	100000-00	PC and All SMS's
17.9	KSBDB	Bio Fuel Information and Demonstration Centre	Awareness Camps Trainings R & D support	8,50,000-00	Separate Bio Fuel Team

18. Revolving Fund

18.1 Financial status

Opening balance as on 01.04.2014 (Rs.in Lakh)	Expenditure incurred during 2014-15 (Rs.in Lakh)	Receipts during 2014-15 (Rs.in Lakh)	Closing balance as on 31.01.2015 (Rs.in Lakh)	Expected closing balance by 31.03.2015 (Including value of material in stock/ likely to be produced)
5.24	31.17	26.33	0.40	3.00

18.2 Plan of activities under Revolving Fund

S.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
18.2.1	Horticulture nursery	16500 Seedlings	2.0 lakhs	SMS (Horticulutre)
18.2.2	Banana Special	2000 kg	1.50 lakhs	SMS (Horticulutre) Lab Assistant
18.2.3	*Trichoderma* production	750 kg	5,0000/-	SMS (Plant Protection)
18.2.4	Crossbred cow dairy unit	9000 L milk	2,00,000/-	SMS (Animal Science)
18.2.5	Vermiculture unit	40 kg Earthworms	10,000/-	SMS (Animal Science) Farm Manager
18.2.6	Vermicompost	20 tones VC	1,20,000/-	
18.2.7	Paddy seed production	20 q	10,000/-	Farm Manager SMS (Agronomy)
18.2.8	Sunhemp seed production	8 q	18,000/-	Farm Manager SMS (Soil Science).
18.2.9	Velvet bean seed production	6 q	40,000/-	Farm Manager SMS (Horticulutre)
18.2.10	Dhiancha seed production	8 q	20,000/-	Farm Manager SMS (Plant Protection)

19. Activities of soil, water and plant testing laboratory during 2015-16

Sl.No.	Type	No. of samples to be analyzed	Names of the team members involved
19.1	Soil	800	SMS (Soil Science). Lab Assistant.
19.2	Water	500	
19.3	Plant	--	
19.4	Others	--	

20. E-linkage during 2015-16

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
	Title of the technology module to be prepared		
20.1	Paddy INM	December 2015	
20.2	Creation and maintenance of relevant database system for KVK	Oct. – 2015	Data base on soil, water test, Radio talk, TV talk, Farmers Advisory Service and Guest lecture completed. Database on training, FLD, OFT and others are in progress and will be completed by Oct 2015.

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

22. Innovator Farmer's Meet

Sl.No.	Particulars	Details
22.1	Are you planning for conducing Farm Innovators meet in your district?	Yes/ No
		Yes
22.2	If Yes likely month of the meet	December 2015
22.3	Brief action plan in this regard	Ten Integrated Farming System practicing farmers in the district will be invited to KVK to address the gathering of interested farmers. This interactive meet will be the plotfarm to share their unique profitable farming and non- farm experiences for the benefit of all. Their presentation will be displayed as models and charts.

23. Farmers Field School (FFS) planned

S. No	Thematic area	Title of the FFS	Critical Inputs and Budget	Team Members
23.1	Integrated crop management	Integrated crop management in Cotton	• Soil test (B / A) 200/- • Seed- Bt-450 g 1,500/- • Bhendi seeds – 200 g 300/- • Seed treatment: Imidacloprid – 50 ml 300/- Planofix – 250 ml 200/- $MgSO_4$ – 4 kg 500/- KNO_3 – 4 kg 500/- • PP measures 3,500/- • Meals and refreshment 7,000/- • FFS kti 10,000/- • Cotton folder 6,000/-	SMS (Agronomy) SMS (Soil Science) SMS (Plant Protection) SMS (Agri. Extension) Programme Coordinator
	Total		**30,000/-**	
23.2	Livestock production and management	Scientific management of crossbred calves	• Milk replacer 2000/- • Calf starter (100 kg) 2000/- • Vitamins & Minerals tonic 1,500/- • Meals & Refreshments 5,000/- • FFS Kit 5,000/- • Deworming and Vaccination 500/- • Exposure visit 5000/-	SMS (Animal Science) DDFA
	Total		**21,000/-**	

23 a) . Integrated Farming System in Dryland Horticulture:

No. of farmers – 6
Indices of Development: Income, Yield, Soil nutrients status and Integration of different crop/ enterprises.

Name of the farmer, Land holding and Annual Income 2011-12	Existing crop / enterprises	KVK intervention			
		2012-13	2013-14	Activities planned 2015-16	Amount (Rs.)
Sri Ramanjuneya Salakatte Harihar tq. 5 ha 11,00,000/-	Coconut, Arecanut, Cocoa, Sapota, Banana Paddy, Mango and Vermicompost	-	-	Pepper seedlings Cardamum seedlings Jaikai seedlings	2000-00 2000-00 4000-00
Sri Renukarya M.K. U. Kallahalli Harapanahalli tq. 5 ha 10,00,000/-	Coconut, Arecanut, Drumstick, Sapota, Banana, Mango, Dairy, Fisheries, Teak, Silver oak, Fodder crops and Vermicompost	-	-	Dairy and Sheep rearing unit	8300-00
Sri Arunkumar G.C. Bilchod, Jagaluru tq. 9.2 ha. 8,00,000/-	Maize, Ragi, Redgram, Sorghum, Field bean, Cotton, Tamarind , Banana, Guava, Marigold, Tomato, Chilli, Drumstick, Apiculture, Cowpea, Mango, Sapota, Coconut, Arecanut, Dairy and Vermicompost	Sapota, Guava, tamarind seedlings	Drumstick , Tamarind, Guava, Sapota and Azolla unit	Drumstick seedlings Sapota seedlings Fodder slips & seeds	2000-00 3000-00 3300-00

Sri Gudadappa Donihalli Channagiri tq. 3 ha 3,00,000/-	Arecanut, Drumstick, Cow pea and Vegetables	-	-	Azolla unit and Vermicompost unit	8300-00
Sri Onkarappa G., S. Mallapura Honnali tq. 3.6 ha. 4,50,000/-	Maize, Ragi, Cotton, Groundnut, Mango, Sapota, Coconut, Oil palm, Drumstick, Papaya, Jamoon, Tamarind, Cluster bean, Brinjal, Chilli, Betelvine, Cucumber, Beans, Cabbage, Onion, Silver oak, Bio- Digester, Vermicompost unit and Dairy	Mango, Sapota, Jack fruit and Orange seedlings	Musambi, Guava seedlings and Azolla unit	Mango seedlings Musambi seedlings Pepper seedlings Guava seedlings	2000-00 2000-00 2000-00 2500-00
Sri Dyamappa H.D. Haluvarthy Davanagere tq. 6 ha. 10,00,000/-	Maize, Cotton, Cucumber, Pumpkin, Chilli, Cowpea, Rose, Papaya, Arecanut, Dairy, Poultry and Poultry feed maker	Mango, Jack fruit seedlings and Vermicompost unit	Lemon, Sapota seedlings and Azolla unit	Sheep rearing unit and Dairy unit	8600-00
				Total	**50000-00**

23 b) Innovative Programmes:

1) Farmer of the month (Thingala Raitha)

– simple approach to reach the larger mass

- A progressive farmer in real sense will be identified each month for a special award by KVK – '*MAASADA RAITHA*' (Farmer of the month/ Farmer never to fade).
- A field day will be arranged in his/ her farm or field for other farmers.
- Highlight the efforts of making farming a profitable yet sustainable venture.
- Farmer to farmer interaction with facilitation by scientific team.
- They will become the ambassadors of KVK mandate and objectives.
- Their farm will be the extension of KVK farm with all useful technologies displayed.
- 12 farmers from 12 villages in a year – effective spreading of technical messages.

Selection criteria:

- Must be practicing agriculture, horticulture and animal husbandry.
- Be open to learn new technologies and be ready to implement in own field.
- Be ready to share the technical information with interested fellow farmers.
- Must be oriented to make farming a sustainable and a profitable venture.

Expected Impact:

- Young farmers will be attracted to farming.
- Migration to city by small and marginal farmers may be reduced.
- Uplift the morale and dignity of farmers.
- Able to reach larger rural mass of interior areas in quick succession.
- Easy popularisation of Science and Technology in agriculture.
- Improved social linkage among various facets of the society.

Budget requirement: Rs. 50,000/-

2) Popularization of Total Mixed Ration (TMR) Blocks through Davanagere Dairy Farmers Association (R)

- DDFA established in November 2011 containing of 100 members.
- Manufacture and distribution of TMR blocks to DDFA members.
- Easy and simple to feed animals as per requirement.
- During fodder scarcity this technology is very useful as blocks can be stored for 1-2 years.
- Meeting nutritional requirement through TMR blocks is easy.
- Wastage of dry fodder and tree leaves can be avoided and better utilized as animal feeding stuffs.
- Animals can be accustomed to block feeding easily.
- It reduces the feeding cost and increases milk production by 30-35%.
- TMR block feeding helps in better byre management and CMP.

Production capacity: 100 blocks/day

Budget requirement : TMR block making machine – Rs. 5,00,000/-

24.Budget - Details of budget utilization (2014-15) up to 31 January 2015

(Rs.)

S. No.	Particulars	Sanctioned RE 2014-15	Released	Expenditure
24.1	**Recurring Contingencies**			
24.1.1	**Pay & Allowances**	**99,50,000**	**59,47,536**	**83,27,897**
24.1.2	**Traveling allowances**	**32,000**	**19,128**	**29,702**
24.1.3	**Contingencies**	**5,00,000**	**2,98,870**	**8,24,656**
24.1.4.1	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	50,000	29,887	1,50,271
B	POL, repair of vehicles, tractor and equipments	50,000	29,887	1,47,484
C	Meals/refreshment for trainees	20,000	11,955	56,055
D	Training material	20,000	11,955	29,638
E	Frontline demonstration except oilseeds and pulses	2,50,000	1,49,436	2,44,760
F	On farm testing	60,000	35,865	1,06,980
G	Training of extension functionaries	10,000	5,977	2,830
H	Maintenance of buildings	10,000	5,977	4,340
I	Establishment of Soil, Plant & Water Testing Laboratory	0		0
J	Library	0		4,110
K	Integrated Farming System	10,000	5,977	0
L	Extension Activities	10,000	5,977	49,954
M	Farmers' Field School	10,000	5,977	28,234
24.1	**Total Recurring**	**1,04,82,000**	**62,65,534**	**91,82,255**
24.2	**Non-Recurring Contingencies**			
24.2.1	**Works**	0	0	0
24.2.2	**Equipments including SWTL & Furniture**	0	0	0
24.2.3	**Vehicle** (Four wheeler/Two wheeler, please specify)	0	0	0
24.2.4	**Library**	0	0	0
24.2	**Total Non Recurring**	0	0	0
24.3	**REVOLVING FUND**	0	0	0
24.4	**GRAND TOTAL (A+B+C)**	**1,04,82,000**	**62,65,534**	**91,82,255**

25. Details of Budget Estimate (2015-16) based on proposed action plan

Sl. No.	Particulars	BE 2015-16 proposed (Rs.)
25.1	**Recurring Contingencies**	
25.1.1	**Pay & Allowances**	**1,09,20,000**
25.1.2	**Traveling allowances**	**3,00,000**
25.1.3	**Contingencies**	**29,22,705**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	4,50,000
B	POL, repair of vehicles, tractor and equipments	2,75,000
C	Meals/refreshment for trainees	2,25,000
D	Training materials (posters, charts, demonstration material including chemicals etc. required for conducting the training)	90,000
E	Frontline demonstrations	3,04,650
F	On farm testing	1,20,955
G	Training of extension functionaries	45,000
H	Maintenance of buildings	1,25,000
I	Establishment of Soil, Plant & Water Testing Laboratory	---
J	Library	25,000
K	Extension Activities	80,000
L	Farmers Field School	1,25,000
M	Integrated Farming System	60,000
N	Innovative Programmes	5,50,000
O	NFSM Demonstrations	4,47,100
25.1	**TOTAL Recurring Contingencies**	**1,41,34,805**
25.2	**Non-Recurring Contingencies**	
25.2.1	**Works**	3,21,00,000
25.2.2	**Equipments including SWTL & Furniture**	68,50,000
25.2.3	**Vehicles** (Four wheeler/Two wheeler)	23,40,000
25.2.4	**Library** (Purchase of assets like books & journals)	2,20,000
25.2	**TOTAL Non-Recurring Contingencies**	**4,15,10,000**
25.3	**REVOLVING FUND**	**0**
25.4	**GRAND TOTAL**	**5,56,52,705**

PROBLEM-CAUSE ANALYSIS BASED ON PRA

BASIC INFORMATION OF THE VILLAGE: BORAGONDANAHALLI, Davangere tq.	
No. of Family: 160 No's	
Net cultivated area: 360 ha.	
Maize	160 ha
Cotton	12 ha
Jowar	04 ha
Finger millet	03 ha
Sugarcane	32 ha
Chilli	03 ha
Tomato	13 ha
Cabbage	03 ha
Leaf vegetables	15 ha
Banana	30 ha
Arecanut	28 ha
Coconut	12 ha
Betelvine	04 ha
Pomegranate	03 ha
Oil Palm	05 ha
Cows	300 Nos
Bullock	50 Pairs
Buffalo	100 No.s
Sheep	25 Nos
Bullock cart	60 No.s
Bore wells	240 No.s

Soil type	
Red	85 %
Red Gravely	15 %
Four wheeler	04 No.s
Two wheeler	190
SHGs	20 No.s
Youth club	01 Nos

Village: Boragondanahalli, Davanagere

Crop	Problems	Causes
Maize	• Low yield	• Low yield due to poor fertility status of soil • Imbalanced nutrient management • Selection of seeds • No intercrop
Sugarcane	• Low yield	• Stem borer • White flies • Water management • Weed management
Banana	• Low yield	• Incidence of leaf spot • Problem in inflorescence opening • Improper Nutrient Management • Panama wilt • Lower bunch weight
Arecanut	• Low yield	• Incidence of hidimundige • Sucking pest on inflorescence • Nut dropping and splitting • No intercrops • Water management
Leafy vegetables	• Low yield	• Absence of multicut varieties • Leaf spot • Sucking pest incidence
Livestock	• Lower production • Infertility	• Imbalanced nutrition • Fodder availability

BASIC INFORMATION OF THE VILLAGE: MITLEKATTE, Harihara tq.	
No. of Family: 300 No's	
Net cultivated area: 480 ha.	
Paddy	400 ha
Arecanut	28 ha
Coconut	20 ha
Sugarcane	05 ha
No. of Cows	130 No.s
Total milk production	500 L /day
No. of tractors	50 No.s
Power Sprayers	15 No.s
Bullock card	2 No.s
Two wheelers	250 No.s
Four wheelers	15 No.s
Soil type:	
Red	20 %
Black	20 %
Sandy loam	60 %
Bore wells	200 No.s
Bore wells (Drying water)	08 No.s
SHGs	20 No.s
Youth clubs	6 No.s

Village (Cluster): Mitlakatte, Devarabellakere, Harihara

Crop	Problems	Causes
Paddy	• Low yield • No timely transplanting	• Excess use of nitrogenous fertilizers • Incidence of BPH, Sheath blight, Blast and Stem borer • Indiscriminate use of pesticides • Labour problem
Arecanut	• Low yield	• Incidence of mites in young plantations • Improper nutrient management • Nut dropping
Cow & Buffalo	• Lower production • Infertility	• Imbalanced nutrition • Infertility • Mastitis
Coconut	• Low yield	• Poor utilization of interspace • Lower yield level • Premature nut dropping • Anaberoga, mites • Nut cracking

BASIC INFORMATION OF THE VILLAGE: KUREMAGANAHALLI, Harapanahlli tq.			
No. of Family: 120 No's			
Net cultivated area: 300 ha.			
Maize	152 ha	Poultry Birds	150 No.s
Cotton	18 ha	Dogs	50 No.s
Finger millet	08 ha	Bore wells	10 No.s
Redgram (Intercrop with Maize)	20 ha	**Soil type:**	
Field Bean	03 ha	Red	80 %
Paddy	04 ha	Others	20 %
Chilli	01 ha	Tractors	06 No.s
Drumstick	02 ha	Bullock card	15 No.s
Sunflower	08 ha	SHGs	06 No.s
Betelvine	01 ha		
Arecanut	25 ha		
Banana	05 ha		
Coconut	25 ha		
Pomegranate	01 ha		
Mango	04 ha		
Oil Palm	02 ha		
Mulberry	04 ha		
Cows	75 No.s		
Bullock	32 Pairs		
Buffalo	90 No.s		
Sheep	50 No.s		
Goat	30 No.s		

Village: Kuremaganahalli, Harapanahalli

Crop	Problems	Causes
Maize	• Low yield	• Stem borer and Root grub • Weeds • Downey mildew • Seeds selection • Improper Nutrient Management and no micronutrient application
Cotton	• Low yield	• Square dropping and Leaf reddening • Incidence of sucking pest • Improper spacing • Improper fertilizer application
Ragi	• Low yield	• Harvesting • Seeds selection • Stem borer
Coconut	• Low yield	• Poor utilization of interspace • Lower yield level • Premature nut dropping • Anaberoga, mites • Nut cracking

Arecanut	• Low yield	• Anabe roga, Drying of leafs • Mites problem • Nut splitting • Hidimundige
Banana	• Lower income per unit area	• Low plant population per unit area • Micro nutrient deficiency • In efficient use of land • Lower productivity
Cow/Buffalo	• Lower production • Infertility	• Imbalanced nutrition • Fodder availability

BASIC INFORMATION OF THE VILLAGE: BILLAHALLI, Channagiri tq.	
No. of Family: 180 No's	
Net cultivated area: 400 ha.	
Maize	160 ha
Arecanut	120 ha
Finger Millet	04 ha
Banana	05 ha
Coconut	10 ha
Cows	100 No.s
Buffalo	400 No.s
Bore wells	300 No.s
Tractors	20 No.s
Four Wheelers	25 No.s
Two wheelers	250 No.s

Village (Cluster): Billahalli, Garaga, Channagiri tq.

Crop	Problems	Causes
Maize	• Low yield	• Seed selection • No seed treatment • Improper nutrient management • No intercrop • Weed management • Incidence of stemborer and downey mildew
Ragi	• Low yield	• Harvesting • Seeds selection • Poor fodder quality
Arecanut	• Low yield	• Water problem • Hidimundige syndrome • Nut splitting • Koleroga • Improper nutrient management • Absence of suitable intercrops • Labour problem • Deficiency of boron and potassium • Dropping and shedding of nuts
Arecanut	• No income pre bearing age	• Low yield potential of local varieties • Low fertility status • Use of non leguminous crop as intercrop • Non user wider spacing (9’ x 9’)
Cattle	• Lower production • Infertility	• Fertility problem • Ticks and mites problem • Imbalance nutrition leading to low yield

BASIC INFORMATION OF THE VILLAGE: BALAMURI	
No. of Family: 126 No's	
Net cultivated area: 240 ha.	
Paddy	44 ha
Cotton	40 ha
Maize	40 ha
Arecanut	20 ha
Coconut	40 ha
Oil Palm	20 ha
Betelvine	20 ha
Cows	300 No.s
Bullocks	90 pairs
Buffalo	110 No.s
Sheep	125 No.s
Goat	120 No.s
Poultry birds (Back yard)	150 No.s
Bore wells (Irrigation)	250 No.s
Bore wells (Drinking Water)	4 No.s
Hand pumps	2 No.s
Tractors	8 No.s
Cultivators	8No.s
Power Sprayer	1 No.s
Bullock cart	70 No.s
/SHGs	15 No.s
Youth cluster	4 No.s

Village: Balamuri, Honnali

Crop	Problems	Causes
Cotton	• Low yield	• Flower and square dropping • Leaf reddening • Labour problem
Maize	• Low yield	• Improper Nutrient Management • Incidence of stem borer • Downey mildew • Increased cost of production
Paddy	• Low yield	• Bacterial leaf blight • Improper Nutrient Management (Excess use of chemical fertilizers) • Poor vegetative growth after transplanting
Arecanut	• Low yield	• Nut dropping and nut splitting • Electricity problem • Incidence of hidimundige syndrome • Squirrels problem • No intercrops in yielding plantations
Coconut	• Low yield	• Incidence of mites • Rats & squirrels problem • No intercrops • Flood irrigation system
Cattle	• Lower production • Infertility	• Infertility problem and green fodder scarcity

*** Village: Halavadandi, Jagalur tq.**

Crop	Problems	Causes
Cotton	• Low yield	• Flower and square dropping • Leaf reddening • Labour problem • Market problem
Maize	• Low yield	• Improper Nutrient Management • Incidence of stem borer • Downey mildew • Increased cost of production • Marketing problem
Bengalgram	• Low yield	• Use of local variety • Pod borer and wilt
Cattle	• Lower production • Infertility	• Infertility problem and green fodder scarcity

* Based on secondary information from Department of Agriculture, Davanagere.