ACTION PLAN OF KVK, GADAG

FOR THE YEAR 2012-13

Submitted to

ZONAL PROJECT DIRECTOR
ZONAL PROJECT DIRECTORATE
ZONE VIII, ICAR, BANGALORE

Submitted by

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CONTENTS

ACTION PLAN (2012-13)

OF

K.H. PATIL KRISHI VIGYAN KENDRA, HULKOTI, GADAG DISTRICT

1. General information about the Krishi Vigyan Kendra

1.	Name and address of KVK with Phone, Fax and e-mail, Website	:	K.H. Patil Krishi Vigyan Kendra Hulkoti – 582205 Dist.: Gadag Phone : (08372) 289606 Fax : (08372) 289474 E-mail : khpatil_kvk_hulkoti@yahoo.com kvkhulkoti@gmail.com Website: www.khpkvk.org
2.	Name and address of host organization	:	Agricultural Science Foundation Hulkoti – 582205 District: Gadag Phone : (08372) 289069 Fax : (08372) 289474 E-mail : asf_hulkoti@yahoo.co.in Website: www.asf.org.in
3.	Year of sanction	:	1985
4.	Name of agro-climatic zone	:	▪ Northern Dry Zone (Region – 2) comprising of 4 blocks namely Gadag, Ron, Naragund and Mundaragi blocks ▪ Semi-Transitional Zone -8 comprising of one block namely Shirahatti block
5.	Major farming systems/enterprises		*A) Field crop based Farming systems* (i) Chilli + Onion + Cotton, Onion + Chilli (ii) Groundnut – Rabi jowar/ Wheat (iii) Greengram – Sunflower / Rabi jowar/ Wheat /Bengalgram (iv) Maize – Bengalgram / Wheat (Irrigated) (v) Kharif jowar + Tur (vi) Bt Cotton *B) Horticulture based Farming systems* (i) Vegetable Crops (Irrigated condition) (ii) Flower crops (irrigated) (iii) Mango (mainly dryland) *C) Major Enterprises* (i) Dairy farming (ii) Sheep rearing (iii) Goat rearing
6.	Soil type	:	Deep black to medium black soils, red sandy soil and red clay soils
7.	Annual rainfall (mm)	:	612 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. L.G. Hiregoudar	Crop Physiology	37400-67000	10000	05.09.1992	Permanent	
2.	Subject Matter Specialist	Mr. S.K.Mudlapur	Plant Protection	15600-39100	6600	26.09.1994	Permanent	
3.	Subject Matter Specialist	Mr. S.H.Adapur	Ag. extension	15600-39100	6600	23.06.1995	Permanent	
4.	Subject Matter Specialist	Smt. S.S.Rayanagoudar	Home Science	15600-39100	6600	26.06.1995	Permanent	
5	Subject Matter Specialist	Mr. V.D.Vaikunthe	Agronomy	15600-39100	6600	01.07.1995	Permanent	
6	Subject Matter Specialist	Mr. K.T.Patil	Horticulture	15600-39100	6600	01.07.1995	Permanent	
7	Subject Matter Specialist	Mr. N.H.Bhandi	Soil Science	15600-39100	5400	01.06.2005	Permanent	
8	Programme Assistant	Mr. B.M.Murgod	Animal Husbandry	9300-34800	4200	25.06.2007	Permanent	
9	Computer Programmer	Smt. L.S.Asuti	-	9300-34800	4200	01.06.2005	Permanent	
10	Farm Manager	Mr. Suresh L. Halemani	-	9300-34800	4200	01.02.2011	Permanent	
11	Accountant/Superintendent	Mr. M.B. Jakkanagoudar	-	9300-34800	4200	25.06.2007	Permanent	
12	Stenographer	Smt. M.Halappanavar	-	5200-20200	2400	01.01.2011	Permanent	
13	Driver 1	Mr. N.L. Hadapad	-	5200-20200	2000	03.09.1992	Permanent	
14	Driver 2	Mr. G.D. Madivalar	-	5200-20200	2000	20.07.1995	Permanent	
15	Supporting staff 1	Mr. S.B. Kotabagi	-	5200-20200	1900	18.07.1985	Permanent	
16	Supporting staff 2	Mr. V.R. Navalli	-	5200-20200	1900	20.07.1993	Permanent	

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	16-07-2011	• Create data base of details of farm machineries and equipment for the benefit of the farmers	• The database on details of farm machineries is in progress	May 2012 November 2012
		• Prepare radio lessons of Farmers Field School for broadcasting in AIR for next year	• Radio talks on Field Schools is being prepared and is due for broadcasting in AIR, Dharwad	
		• To get detailed feedback of Anuradha variety of rabi jowar from farmers	• Feedback on Anuradha variety of Rabi Sorghum is collected from farmers	

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2012-13
		• Successful OFTs need to be presented in NARP meeting for consideration to include in package of practice of UAS, Dharwad	• Successful OFTs are regularly presented in both Kharif and Rabi NARP workshop	
		• Farm trials of UAS, Dharwad need to be presented in SAC meeting	• Yes, it will be carried out	
		• To grow Bhagya variety of drumstick in dry land horticulture	• Bhagya variety of drumstick is demonstrated in dry land horticulture system on the farmers field	
02	14-02-2012	• KVK shall celebrate silver jubilee celebration	• It is being considered by KVK's host organization	
		• Submission of proposal for strengthening of plant health clinic of KVK	• Proposal will be submitted to ICAR	
		• To publish/telecast successful cases of KVK's interventions in print and electronic media	• Successful case studies will be published and telecasted	
		• KVK needs to strengthen its animal husbandry activities for the next year 2012-13	• It will be carried out	
		• KVK shall get FPO license for branding and marketing of KVK mall products	• It will be carried out	
		• KVK needs to initiate Service Providers in agriculture	• KVK has already trained 20 master farmers for serving as service providers in knowledge dissemination	
		• Introduce S-36 variety of mulberry in Shirunja block as this variety is resistant to drought conditions	• S-36 variety of Mulberry will be introduced in Shirunja cluster during next year	
		• KVK needs to popularize CSV-22 variety in deep black soils	• More number of FLDs and seed production activities will be carried out to popularize the variety	
		• KVK needs to popularize Sapota in black soils	• It will be promoted through FLD & training programs	

Sl. No	Date	Major recommendations	Status of action taken in brief	Tentative date of SAC meeting proposed during 2012-13
		• KVK shall develop models of dryland farming practices with financial assistance from govt. projects given to RRS, Bijapur	• It will be finalized after consultation with chief Scientist of RRS, Bijapur	
		• KVK needs to develop one onion storage model	• Proposal will be submitted to NHM for establishment of onion storage model	
		• KVK can introduce grass varieties in dry land horticulture area and evaluate Sorghum varieties for their stover value	• This suggestion will be implemented	
		• Facilitate availability of farm machineries to farmers	• Land levelers, rotary weeders, rotavator &, chaff cutters will be made available to the farmers once ICAR approves for establishment of Custom Hiring Service 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	
					Title of training	Institute
1.	Programme Coordinator	Administrative, financial & technical management of KVK	ZPD, Bangalore & NAARM, Hyderabad	To run KVK programmes efficiently	-	-
2.	SMS (Plant Protection)	Mass production of bio-agents	NCIPM, Delhi	To initiate production of bio-agents at KVK	Horticulture Extension Management	MANAGE & KVK, Hulkoti
					ICT application in Agriculture	UAS, Raichur
3.	SMS (Ag. Extension)	Agripreneurship Development	MANAGE, Hyderabad	To promote agripreneurship among rural youths	Workshop on marketing, research & information network to support Ag. Marketing extension	MANAGE, Hyderabad
					Horticulture Extension Management	MANAGE & KVK, Hulkoti

S. No	Category	Area of training	Institution proposed to attend	Justification	Details of trainings attended during 2011-12	
4.	SMS (Home Science)	Branding & licensing of value added products	To be decided	For promotion and giving guidance to SHGs	Recapturing nutritious millets for health & diseases management	UAS, Dharwad
		Cashew processing	NRC, Puttur	To initiate cashew processing	Horticulture Extension Management	MANAGE & KVK, Hulkoti
5	SMS (Agronomy)	ICM in sugarcane	Sugarcane Breeding Institute, Coimbatore	Area under sugarcane is picking up in Gadag district	Horticulture Extension Management	MANAGE & KVK, Hulkoti
					ICT application in Agriculture	UAS, Raichur
					Recapturing Nutritious millets for health & diseases management	UAS, Dharwad
6	SMS (Horticultur e)	Vegetable seed production	IIHR, Bangalore	To initiate vegetable seed production	Dissemination of horticulture technologies to KVK persons	IIHR, Bangalore
		Cashew processing	NRC, Puttur	To initiate cashew processing	Horticulture Extension Management	MANAGE & KVK, Hulkoti
7	SMS (Soil Science)	Advanced techniques of soil & water analysis	NBSS & LUP, Nagpur	To strengthen soil testing laboratory	INM for agriculture & horticulture crops for productivity increase	IIHM, Bangalore
		Soil resource inventory and land evaluation	NBSS & LUP RC, New Delhi	To get knowledge for the preparation of soil fertility maps	Livelihood enhancement through sustainable natural resource management in drylands	CRIDA, Hyderabad
					Agriculture knowledge management in extension	TNAU, Coimbatore
8	Programme Assistant (Animal Science)	Livestock as component of IFS	TNUVAS, Chennai	To disseminate Livestock Technologies under IFS	Methods & techniques of fodder cultivation for augmenting livestock production	TNUVAS, Chennai
					Trends in value addition to milk & milk products	KVAFSU, Bangalore
9	Computer Programmer	ICTs for Agricultural Information	NAARM, Hyderabad	To strengthen ICT	Online reporting system of KVK	KVK, Conoor

S. No	Category	Area of training	Institution proposed to attend	Justification	Details of trainings attended during 2011-12	
		Management and Networking		initiatives at KVK		
10	Farm Manager	Farm management	UAS, Dharwad	For efficient management of farm	Seed testing & evaluation	UAS, Dharwad
11	Administrative	Administrative & financial management of KVK	ZPD, Bangalore	For efficient management of KVK accounts & administration	-	-

B. Cross-learning across KVKs

S. No	Name of the KVK proposed	Purpose	Mode of learning
1	KVK, Pathanamtitta	To learn entrepreneurship in value addition activities	It is proposed to visit KVK and hold interaction with KVK staff and entrepreneurs
2	KVK, Ahmadnagar	To learn ICT initiatives	Mode of learning is through visit to KVK and interaction with KVK staff
3	KVK, Namakkal	To learn PPP models in livestock	Visit and interaction

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

Sl. No.	Name of the KVK included in the cluster	Nature of sharing		
		Knowledge/ expertise	Resources (facilities and products)	Activities
1	KVK, Dharwad	Protected cultivation of high value crops in flowers & vegetables	Resource persons	Training & exposure visits
2	KVK, Belgaum (Tukkanatti)	ICM in sugarcane	Resource persons	Training
3	KVK, Davanageri	Inland fishery	Resource persons	Training
4	KVK, Koppal	ICM in paddy	Resource persons	Training

6. Plan of Work for 2012-13

A. Operational areas details proposed

Sl. 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	Ron	Jakkali cluster comprising of Jakkali, Maranabasari & Budihal villages	-	Natural Resource Conservation	• Open wells and borewells are dried up resulting in decreased agricultural productivity	• Natural Resource Management (soil and water conservation, recharging of groundwater construction of water harvesting structures and development of vegetation)	2011-12
				Green gram	• Moisture stress	• Seed priming with $CaCl_2$ (2%) • Compartment bunding 20-25 DAS • Opening of conservation furrows @ interval of 10 mts • Introduction of cycle weeder	
					• Non-availability of quality seeds	• Seed production	
					• Incidence of Pod borer and leaf defoliator	• Pod borer & caterpillar Management	
					• Incidence of powdery mildew disease	• Powdery mildew disease management	
					• Drudgery in weeding	• Drudgery reducing equipments	
					• Lack of value addition	• Value addition through grading	
					• Pod shattering	• Introduction of S-4 variety	
				Spreading groundnut	• Moisture stress	• Compartment bunding	2011-12
					• Imbalanced nutrition	• INM	
					• Incidence of root grub pest	• Root grub pest management	
					• Incidence of collar rot disease	• Collar rot disease management	
					• Incidence of leaf minor pest	• Leaf minor pest management	

Sl. 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				
				Onion	• Non-availability of quality seeds	• Seed production	2011-12
					• Incidence of purple blotch disease	• Introduction of Arka Kalyan variety	
					• Imbalanced nutrition	• INM	
					• Weed problem	• Chemical weed management and Maintenance of row spacing	
					• Low keeping quality of existing variety	• Introduction of Arka Bheema variety	
				Bengal gram	• Moisture Stress	• Compartment bund • Seed priming • Cycle weeders	
					• Incidence of wilt and rust disease	• Wilt and rust disease management	2011-12
					• Incidence of Pod borer pest	• Pod borer pest management	
					• High incidence of wilt	• Introduction of JG-11 variety	
					• Lack of value addition	• Value addition through grading	
					• Drudgery in harvesting of Bengalgram	• Drudgery reducing equipments (Hand gloves)	
				Rabi Jowar	• Moisture stress	• Compartment bunding • Seed priming with $CaCl_2$ • Opening of conservation furrows @ 10 mtr interval • Wider row (18'') sowing • Seed treatment with Azospirilum & PSB @ 500 gm/ha each. • Use of cycle weeder	
					• Low productivity of Maladandi variety	• Introduction of Anuradha & CSV-22 variety	2011-12
					• Lack of value addition	• Value addition	

Sl. 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				
				Livestock Enterprises Milch animals	• Imbalanced nutrition	• Nutrition management	2011-12
					• Incidence of ticks	• Management of ticks	
				Sheep	• Incidence of round worms	• Deworming	2011-12
				Dairy animals	• Low milk productivity	• Balanced nutrition	
					• Reduced intake of dry fodder	• Enrichment of dry Fodder	
					• Incidence of Endoparasite	• Management of Endoparasite	
					• Incidence of Ectoparasite	• Management of Ectoparasite	
				Goat	• Incidence of Ecto-Endoparasite	• Management of Ecto-Endoparasite	
				Other Enterprises	• Excess smoke in kitchen & drudgery in firewood collection	• Fuel saving-less smoke emitting devices	
					• Lack of awareness on marketing of value added products	• Awareness on marketing skills & linkages	
					• Lack of awareness on health, hygiene, nutrition and balanced diet	• Importance of personal hygiene and balanced diet	
					• Drinking water contains more of salts & fluorides	• Water purification at house hold level	
				All Crops	• Under employment	• IGAs in dairy, food processing, vermincompost, seed production, goatery	2011-12
					• Distress sale of agriculture produce and poor marketing strategies	• Capacity building on marketing strategies	
					• No access to appropriate knowledge in crops and enterprises	• Mobile message services • Sale of Critical inputs through FRC • Development of para-technicians in agriculture	
					• Lack of crop diversification	• Promotion of dry land horticulture	

Sl. 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				
2	Naragund	Banahatti cluster comprising of Banahatti, Mooganur and Kurlageri villages	-	Maize	• Incidence of stem borer pest	• Management of stem borer pest	2011-12
					• Incidence of Army worm pest	• Management of Army worm pest	
					• Incidence of leaf blight disease	• Management of leaf blight disease	
				Bt. Cotton	• Incidence of Angular leafspot and black arm diseases	• Disease management	2011-12
					• Dropping of squares, tender bolls and leaf reddening	• Integrated Nutrient Management	
					• Incidence of sucking pest	• Integrated Pest Management	
				Bengalgram	• Incidence of wilt disease	• Introduction of new variety	2011-12
					• Incidence of pod borer pest	• IPM	
				Drudgery	• Drudgery in weeding & inter cultivation	• Introduction of cycle weeder	2011-12
					• Drudgery in harvesting of bengalgram	• Introduction of hand gloves	2011-12
				Wheat	• Low productivity due to local variety	• Introduction of new variety	2011-12
					• Drudgery in harvesting of wheat	• Introduction of improved sickle	
				Dairy animals	• Low milk productivity	• Balanced Nutrition	
					• Reduced intake of dry fodder	• Enrichment of dry Fodder	
					• Incidence of Endoparasite	• Management of Endoparasite	
					• Incidence of Ectoparasite	• Management of Ectoparasite	
				Other enterprises	• Excess smoke in kitchen & drudgery in firewood collection	• Fuel saving-less smoke emitting devices	

Sl. 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				
					• Lack of awareness on health, hygiene, nutrition and balanced diet	• Importance of personal hygiene and balanced diet	
3	Gadag	-	Shirunja cluster comprising of Shirunja,Yeilishirunja, Shirol & Hosur villages	Natural Resource conservation	• Crop productivity is affected due to decrease in groundwater	• Natural Resource management (Soil and Water Conservation, Recharge of Groundwater)	-
					• Low soil fertility	• Usage of biofertilisers like Azolla, Vermicompost, Jeevamrutha etc.	
				Banana	• Low yield due to application of imbalanced nutrients	• INM	-
					• Improper water management	• Micro irrigation system	
					• Improper management of Sigatoka disease	• IDM	
				Coriander	• Low yield due to less foliage of local variety	• Introduction of high foliage variety	
					• Incidence of powdery mildew	• Management of powdery mildew	
				Chrysanthemum	• Low yield due to application of imbalanced nutrients	• INM	-
					• Incidence of leaf spot disease	• IPM	
				Maize	• Moisture stress	• Compartment bunds • Conservation furrows • Introduction of weeder	
					• Application of imbalanced nutrients	• Soil application of organics and bio-fertilizers • INM	
					• Incidence of high weed infestation	• Chemical weed management	
					• Incidence of army worm pest	• Army worm pest management	

Sl. 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				
					• Incidence of cob borer pest	• Cob borer pest management	
					• Drudgery in weeding	• Drudgery reducing equipments	
				Bt. Cotton	• Imbalanced nutrition	• INM	
					• Severe incidence of leaf reddening	• Management of leaf reddening through INM	
					• Incidence of sucking pest	• Sucking pest management	
					• Incidence of Black arm disease	• Black arm disease management	
					• Drudgery in harvesting of cotton	• Drudgery reducing equipments-cotton cloth bags	
					• Improper irrigation schedule	• Irrigation management	
				Groundnut (Summer)	• Cultivation of low productive local variety	• Introduction of TAG-24 variety	
					• Application of imbalanced nutrients	• INM	
					• High incidence of weed	• Chemical weed management	
					• Improper irrigation schedule	• Irrigation management	
					• Incidence of collar rot disease	• Collar rot management	
					• Incidence of leaf minor pest	• Leaf minor pest management	
				Foxtail millet	• Cultivation of local variety	• Introduction of HMT 100-1 variety	
					• Moisture stress	• Compartment bunding, conservation furrows, cycle weeder	
					• Non remunerative prices	• Processing and value addition	

Sl. 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				
				Groundnut (Bunch & Spreading)	• Moisture stress	• Compartment bunds • Conservation furrows • Cycle weeder	
					• Low productivity in local bunch variety	• Assessment of Kadari-6 bunch variety	
					• Application of imbalanced nutrition	• INM	
					• Incidence of collar rot disease	• Collar rot disease management	
					• Incidence of leaf minor pest	• Leaf minor pest management	
				Rabi Sorghum	• Moisture stress	• Seed priming with $CaCl_2$ • Compartment bunding • Introduction of cycle weeder	
					• Low productivity of M 35-1 variety in shallow soils	• Introduction of Anuradha variety	
					• Closer row spacing (14"x4")	• Wider row spacing with appropriate soil & water conservation measures	
				Mulberry	• Application of imbalanced nutrients	• INM	
					• Incidence of Leaf defoliators (pests)	• Management of leaf defoliating pests	
					• Incidence of powdery mildew disease	• Management of powdery mildew disease	
				Silkworm rearing	• Low quality and quantity of cocoon yield	• Leaf quality improvement	
				Dairy Animals	• Incidence of Ectoparasite	• Management of Ectoparasite	
				Goat	• Incidence of Ecto & Endoparasite	• Management of Ecto & Endoparasite	
				Other enterprises	• Lack of awareness on health, hygiene, nutrition and balanced diet	• Importance of personal hygiene and balanced diet	

Sl. 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				
					• Non-availability of fuel and excess smoke in kitchen	• Smoke free chulhas & fuel saving devices	
					• Drinking water contains more of salts & fluorides	• Water purification at house hold level	
				All Crops	• Under employment	• Livelihood promotion for women and youths	
					• Poor marketing strategies	• Capacity building on marketing strategies	
					• Non availability of critical inputs and lack of access to knowledge	• Linkage with VSS Banks for supply of critical inputs • Knowledge dissemination through exhibition of information in VSS Banks & KMF society	
					• Lack of diversification	• Promotion of dry land horticulture & IFS models	
				Value addition	• Lack of Post Harvest Technology to locally grown grains	• Grading and preparation of value added products	
4	Shirahatti	-	Kadakol cluster comprising of Kadakol, Jalligeri & Hosalli villages	Natural Resource Conservation	• Low productivity and income due to slopy land with shallow depth & less soil fertility	• Soil and Water conservation • Soil fertility enhancement	-
				Banana	• Low yield due to application of imbalanced nutrients	• INM	
					• Improper water management	• Micro irrigation system	
					• High incidence of Sigatoka disease	• IDM	
				Chrysanthemum	• Low yield due to imbalanced nutrient application	• INM	
					• Incidence of leaf spot diseases	• IPM	

Sl. 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				
				Maize	• Moisture stress	• Compartment bunding • Opening of furrows • Introduction of weeders • Addition of organics and bio-fertilizers	
					• Application of imbalanced nutrients	• INM	
					• Incidence of high weed infestation	• Chemical weed management	
					• Recurring incidence of Army worm pest	• Army worm pest management	
					• Incidence of cob borer pest	• Cob borer pest management	
					• Drudgery in weeding	• Drudgery reducing equipments-Twin Wheel Hoe Weeder/Cycle Weeder	
					• Low soil fertility	• Addition of organic manures and bio-fertilizers	
				Bt. cotton	• Incidence of leaf reddening	• Management of leaf reddening through INM	
					• Improper irrigation schedule	• Irrigation management	
					• Incidence of sucking pest	• Management of sucking pest	
					• Incidence of black arm disease	• Black arm disease management	
					• Drudgery in harvesting of cotton	• Drudgery reducing equipments – Cotton cloth bag	
				Groundnut (Summer)	• Cultivation of local variety	• Introduction of TAG-24 variety	
					• Application of imbalanced nutrients	• INM	
					• Incidence of collar rot disease	• Collar rot disease management	

Sl. 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				
					• Incidence of leaf minor pest	• Leaf minor pest management	
					• Incidence of weeds	• Chemical weed management	
					• Unscheduled irrigation	• Irrigation management	
				Mulberry	• Application of imbalanced nutrients	• INM	
					• Incidence of leaf defoliators (pests)	• Management of leaf defoliating pests	
					• Incidence of powdery mildew disease	• Management of powdery mildew disease	
				Silkworm rearing	• Low quality and quantity of cocoon yield	• Leaf quality improvement	
				Dairy animals	• Low milk productivity	• Balanced Nutrition	
					• Reduced intake of dry fodder	• Enrichment of dry Fodder	
					• Incidence of Endoparasite	• Management of Endoparasite	
					• Incidence of Ectoparasite	• Management of Ectoparasite	
				Goat	• Incidence of Ecto & Endoparasite	• Management of Ecto & Endoparasite	
				Other enterprises	• Lack of awareness on health, hygiene, nutrition and balanced diet	• Importance of personal hygiene and balanced diet	
					• Lack of awareness about value addition in millets	• Importance of value addition in millets	
					• Drinking water contains more of salts & fluorides	• Water purification at house hold level	
					• Non-availability of fuel and excess smoke in kitchen	• Smoke free chulhas & fuel saving devices	
				All Crops	• Under employment	• Livelihood promotion for women & youths	

Sl. 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				
						• Promotion of dairy enterprise • Promotion of Sericulture	
					• Lack of diversification	• Promotion of dry land horticulture & IFS models	
5	Mundargi	-	Hallikeri Cluster (Hallikeri, Eklaspur and Venkatpur)	Greengram	• Low productivity of Crop • Non availability of quality seeds	• ICM • Seed production	
				Bengalgram	• Incidence of Pod borer	• IPM	
				Onion	• Imbalanced nutrition	• INM	
				Rabi Jowar	• Moisture Stress	• Seed priming	
				Milch Animals	• Low productivity of Milk due to imbalanced nutrition • Incidence of Ecto and Endo parasite	• Balanced nutrition • Management of Ecto and Endo parasite	
				Sheep and Goat	• Low body weight	• De-worming	
				Drudgery	• Drudgery of Farm women • Lack of awareness on health, hygiene, nutrition and balanced diet	• Promotion of Drudgery reducing equipments • Importance of personal hygiene and balanced diet	

B. Prioritized problems and KVK interventions proposed

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
Soil & water conservation	Ron, Gadag & Shirahatti	• Decreasing groundwater affects the productivity	• Soil & Water conservation technologies & Recharge of groundwater	-	-		✓	✓	-
Green gram	Ron & Mundargi	• Moisture stress	• Compartment bunding, conservation furrows, seed priming	-	-	✓	✓	✓	✓
		• Non availability of existing varieties for mechanized harvesting	• Demonstration of DGGV-2 variety						
		• Pod shattering	• Demonstration of Selection-4 variety						
		• Severe incidence of pod borer & leaf defoliator	• Spray of Profenophos @ 2 ml/lit						
		• Incidence of powdery mildew disease	• Spray of Hexaconazole @ 2 ml/lit						
		• Lack of value addition	• Value addition through grading						
Organic input production	Ron, Shirahatti & Gadag	• Moisture stress and less usage of Organic Manure	• Demonstration of Vermicompost, Vermiwash, Jeevamrutha, Panchagavya and Azolla production technologies	-	-	✓	✓	✓	✓
Bengal gram	Ron Naragund & Mundargi	• Moisture stress	• Compartment bunding and seed priming	-	-	✓	✓	✓	✓
		• Incidence of wilt	• Demonstration of JG-11 variety						
		• Incidence of pod borer pest	• IPM practices + spray of 1) Profenophos @ 2ml/lit 2) Indaxicarb @ 0.3 ml/lit 3) Emectin benzoate @ 0.2 ml/lit						

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
		• Lack of value addition	• Value addition through grading						
		• Drudgery in harvesting	• Cycle weeder						
			• Introduction of hand gloves						
Maize	Gadag, Shirahatti & Naragund	• Moisture stress	• Compartment bunding • Conservation furrow • Cycle weeder	-	-	✓	✓	✓	
		• Usage of imbalanced nutrients	INM • Basal dose: - 50-50-25 kg NPK/ha - $ZnSO_4$ 10 kg/ha • Top dressing 50 kg Nitrogen (25-35 DAS)						
		• Incidence of high weed infestation	• Using weedicide as pre-emergent spray with Atrazine @ 1 kg/ha						
		• Recurring incidence of Armyworm pest	• Management of Army worm pest with - baiting technique : Wheat bran – 50 kg/ha + Monocrotophos – 250 ml/ha + Jaggary – 4 kg/ha						
		• Recurring incidence of cob borer pest	• Management of cob borer pest with dusting of Malathion @ 30 kg/ha						

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
Rabi Jowar	Gadag Ron & Mundaragi	• Moisture stress	• Seed priming with $CaCl_2$ (2%) • Compartment bunding after sowing • Wider row spacing (18''x6'') • Introduction of cycle weeder	-	-	✓	✓	✓	✓
		• Low productivity in shallow soils	• Demonstration of Anuradha variety						
		• Low productivity of Maladandi variety in deep black soils	• Demonstration of CSV-22 variety						
Wheat	Naragund	• Low productivity due to cultivation of non-descript local variety	• Introduction of UAS-304 variety	-	-	✓	✓	✓	✓
Foxtail Millet	Gadag	• Moisture sress	• Compartment bunds, opening of furrows and weeder	-	-	✓	✓	✓	✓
		• Cultivation of local variety	• Demonstration of HMT100 -1 variety						
		• Non remunerative prices	• Processing & value addition						
Ground-nut (Bunch & Spreading)	Gadag Ron	• Cultivation of local variety	• Assessment of Kadiri-6 bunch variety for higher productivity	✓		-	✓	✓	
		• Moisture stress	• Compartment bunds, opening of furrows and weeders	-	-	✓	✓	✓	
		Application of imbalanced nutrition	• Application of 25-50-25 kg NPK/ha • $ZnSO_4$ 25 kg/ha • Rhizobium-2.5 Kg • PSB – 2.5 Kg • Gypsum 5.0 Qt/ha						

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
		• Incidence of collar rot disease • Incidence of leaf minor pest	• Seed treatment with Carboxin 2 gm/kg seed. • Foliar spray of Profenophos @ 2 ml/lit + Nimbicidin @ 2 ml/lit						
Ground-nut (summer)	Gadag & Shirahatti	• Cultivation of local variety	• Demonstration of TAG-24 variety	-	-	✓	✓	✓	✓
		• Usage of imbalanced nutrition	• INM 25-75-25 kg NPK/ha $ZnSO_4$ – 25 kg/ha • Rhizobium 2.5 Kg • PSB-2.5 Kg • Gypsum: 5Q/ha • Top dressing: 12.5 kg/ha Nitrogen at the time of flowering						
		• High weed incidence	• Chemical weed management & using cycle weeders						
		• Improper irrigation schedule	• Irrigation management						
		• Incidence of collar rot disease	• Seed treatment with Carboxin @ 2 gm/kg of seed						
		• Incidence of leaf minor pest	Foliar spray of Profenophos @ 2.0 ml + Nimbicidine @ 2ml/lit						
Bt. Cotton	Gadag & Shirahatti	• Application of imbalanced nutrients	**INM** • Basal dose 50-50-50 kg NPK/ha • Top dressing 50 kg /ha Nitrogen (50-60 DAS)	-	-	✓	✓	✓	
		• Severe incidence of Leaf reddening	• Foliar spray of $MgSO_4$ (1%)+DAP (2%) during 90						

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
			to 120 days after sowing						
		• Incidence of sucking pest	• Foliar spray of Imidacloprid @ 0.25 ml/lit						
		• Incidence of Black arm disease	• Foliar spray of Streptocycline sulphate @ 0.5 gm/lit + Copper Oxy chloride @ 3 gm/lit						
		• Improper irrigation	• Irrigation management						
		• Drudgery in cotton picking	• Refinement of cotton harvesting bags	-	✓	-	✓	✓	
Mulberry	Gadag & Shirahatti	• Application of imbalanced nutrients	**INM** • Basal dose – (60-60-60 NPK Kg/ha) • Top dressing in 4 splits @ 45 days interval (240-60-60 NPK Kg/ha) • VAM - 0.5 kg per tree or pit • Foliar spray of micro nutrients (Harith) 20 days and 30 days after pruning.	-	-	✓	✓	✓	
		Incidence of Leaf defoliators	• Foliar spray of DDVP @ 2 ml/L						
		Incidence of powdery mildew	• Foliar spray of Dinocap 1 gm/L						
Silkworm rearing	Gadag & Shirahatti	• Low quality and quantity of Cocoon yield	• Mulberry leaf treatment with Azolla 25% extract before feeding larvae (after 4th moult onwards)	-	-	✓	✓	✓	
Onion	Ron & Mundargi	Poor quality of bulb	• Assessment of Arka Bheem variety	✓	-	-	✓	✓	✓
		Weed problem	• Demonstration of post emergent weedicide Quizolphos ethyl • Single row sowing	-	-	✓	✓	✓	
		Incidence of purple	• Introduction of Arka						

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
		blotch	Kalyan variety						
Banana	Gadag & Shirahatti	Imbalanced nutrient application	• Application of RDF @ 175: 105:220 NPK /ha in 6 split doses	-	-	✓	✓	✓	✓
			• Foliar spray of Banana Special (IIHR, Bangalore) at 5th, 6th, 7th & 8th month after planting & 2 times spray after bunch formation at interval of 30 days @ 6 gm/lit of water						
		Improper water management	• Installation of drip irrigation system						
		Improper management of Sigatoka disease	• Spray of Propiconazole @ 1 ml/lit of water						
Coriander	Gadag	Low yield due to less foliage	• Introduction of high foliage variety Nutan	-	-	✓	✓	✓	✓
		Incidence of powdery mildew disease	• Management of powdery mildew disease with spray of wettable sulphur						
Chrysanthemum	Gadag & Shirahatti	Imbalanced application of nutrients	• Application of RDF & NPK @ 100:150:100/ha	-	-	✓	✓	✓	✓
			• Foliar spray of 19:19:19 @ 5gm/lit at bud formation stage & after bud opening with 2 ml Multiplex / L of water						
		Incidence of leaf spot disease	• Spray of Proficonazole @ 1 ml/lit of water at bud stage						
Envirofit chulha	Gadag Shirahatti Naragund Ron	Non availability of fuel and excess smoke in Kitchen	• Assessment of fuel saving devices mainly Envirofit chulha, Selco chulha & Samuchit chulha	✓	-		✓	✓	✓
Health & nutrition	Gadag, Shirahatti &	Lack of awareness on health and	• Awareness creation to primary school children	-	-		✓	✓	✓

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
	Ron	hygiene	on constituents of food						
			• Training to school children on Balanced diet						
			• Training to Adolescent girls on Nutrition and Reproductive Health						
			• Training to farm women on hygiene and health						
		Lack of interest of young girls to work in the fields due to poor health	• EDP • Creating awareness on nutrition, balanced diet & importance of millets in diet	-	-		✓	✓	-
Drinking water		Drinking water contains more of salts & fluorides	• Purification of water by Amla fruit & drum stick seeds	-	-	-	✓	✓	✓
Dairy Animal	Gadag, Shirahatti, Ron, Mundargi & Naragund	Imbalanced nutrition	• Promotion of Azolla as Animal feed	-	-	✓	✓	✓	✓
		Lack of awareness on green fodder	• Introduction of improved varieties of perennial grasses – FODDER SPECIES BANK	-	-	✓	✓	✓	✓
		• Reduced intake of dry fodder by animals	• Enrichment of dry fodder with Salt & Jaggery	-	-	✓	✓	✓	✓
		• Incidence of Endo parasite	• Management of Endo parasite with Fenbendazole tablets	-	-	✓	✓	✓	✓

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Production of technology inputs
		• Incidence of Ecto-parasite	• Management of Ecto-parasite with Flumethrine 1%	-	-	✓	✓	✓	✓
Sheep	Gadag, Shirahatti, Ron, Mundargi & Naragund	• Incidence of Ecto-Endoparasite	• Management of Ecto-Endoparasite	-	-	✓	✓	✓	✓
Goat	Gadag, Shirahatti, Ron, Mundargi & Naragund	• Incidence of Ecto-Endoparasite	• Management of Ecto-Endo parasite	-	-	✓	✓	✓	✓
All Crops and Enterprises	Ron Gadag Shirahatti	Under employment	• Livelihood programmes on dairy, food processing, vermicompost and sericulture	-	-		✓	✓	✓
		Poor marketing strategies	• Organization of producer association and value addition programmes	-	-		✓	✓	
		Non availability of Critical inputs and lack of knowledge	• Establishment of FRC	-	-		✓	✓	✓
			• Inputs supply through VSS Bank & dissemination of knowledge through capacity building of VSS Bank & KMF office-bearers & staff	-	-		✓	✓	✓
Crop diversification	Ron, Gadag & Shirahatti	• No Crop diversification	• Dryland Horticulture technology • Promoting IFS models	-	-	✓	✓	✓	✓

7. Details of technological interventions

A. Technology Assessment

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
1	Groundnut (Bunch variety)	Low productivity in existing variety	Assessment of Kadiri-6 variety for higher productivity	*i) Farmers' practice* Cultivation of local variety	-	3	-		Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)
				ii) Recommended practice GPBD-4 variety	UAS, Dharwad	3	Seeds GPBD-4 pods- 1.50 Qtl.	7500	
				iii) Assessment proposed Assessment of Kadiri-6 variety	ANGRAU, Hyderabad	3	Seeds Kadari-6 pods- 1.50 Qtl.	7500	
							Total	**15000**	
2	Onion	• Low productivity in local variety • Low keeping quality of bulbs in existing variety	Assessment of Arka Bheem variety for higher productivity & good keeping quality bulbs	*i) Farmers' practice* Cultivation of local variety	-	3	**-**		Mr. K.T.Patil SMS (Horticulture) & Mr. S.K.Mudlapur SMS (Plant Protection)
				ii) Recommended practices Cultivation of Bellary red variety	UAS, Dharwad	3	Seeds Bellary Red variety – 3 Kg	1800	
				iii) Assessment proposed Assessment of Arka Bheem	IIHR, Bangalore	3	Seeds Arka Bheem variety – 3 Kg	2400	
							Total	**4200**	

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
3	Fuel saving devices	Drudgery in fuel collection and excess smoke in kitchen	Assessment of Selco solar chulha and envirofit chulha	*i) Farmers' practice* Traditional chulha					Mrs. Sudha S.R. SMS (Home Science)
				ii) Assessment proposed a) Selco chulha	Selco Solar Lights Pvt. Ltd.	3	Selco chulha – 3 @ Rs.1000/chulha	3000	
				b) Envirofit chulha	Colarado State University's Engines and Energy Conversion Laboratory	3	Envirofit chulha-3 @ Rs.1500/chulha	4500	
				c) Sampada Gasified stove	Samuchit Enviro Tech Pvt. Ltd., Pune	3	Sampada chulha-3 @ Rs.2000/chulha	6000	
						Total		**13500**	

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
1	Cotton bag	Increased load and drudgery of farmwomen to keep the plucked cotton	Refinement of cotton bags	*i) Farmers' practice* Old clothes	-	15	-	-	Mrs. Sudha S.R. & SMS (Home Science) Mr.V.D.Vaikunthe SMS (Agronomy)
				ii) Recommended practice Cotton bags to be tied at back	UAS, Dharwad		-	-	
				iii) Refinement proposed Refinement of cotton harvesting bags	Refining based on feedback from farm women		Cotton bags @ Rs.200 /bag	3000	
						Total		**3000**	

C. Frontline Demonstrations

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
A	**CEREALS & MILLETS**								
1	Maize (Kadakol, Shirunja & Banahatti)	• Moisture stress • Application of imbalanced nutrition • Incidence of army worm pest • Incidence of cob borer pest • High incidence of weed infestation • Low soil fertility	ICM	UAS, Dharwad	20	8	• Bund former-2 No @ Rs.900/unit	1800	Mr. V.D. Vaikunthe SMS (Agronomy), Mr. N.H. Bhandi SMS (Soil Science), & Mr. S.K. Mudlapur SMS (Plant Protection)
							• Cycle weeder- 4 No @ Rs.1250/weeder	5000	
							• $ZnSO_4$ – 200 Kg @ Rs. 40/kg	8000	
							• Wheat bran – 4.0 Qtl.@ Rs 750/qt	3000	
							• Monocrotophos 2 litre @ Rs.540/ltr	1080	
							• Jaggery – 32 Kg @ Rs. 30/Kg	960	
							• Malathion – 240 Kg @ Rs. 16/Kg	3840	
							• Atrazine 50 wp 8 Kg x Rs 325/-	2600	
							• Azospirillum 40 Kg @ Rs. 40/Kg	1600	
							• PSB - 40 Kg @ Rs.40/Kg	1600	
							Total	**29480**	
2	Rabi jowar (Jakkali)	(i) • Moisture stress • Low productivity of M 35-1 variety in deep black soils	Introduction of CSV-22 variety	UAS, Dharwad	12	5	• Seeds (CSV-22) – 40 Kg x Rs. 50	**2000**	Mr. V.D. Vaikunthe SMS (Agronomy) & Mr. N.H.Bhandi SMS (Soil Science)
							• Bund former- 1 No.	**900**	
	(Shirunja & Jakkali)	(ii) • Low productivity in	Introduction of Anuradha variety	MPKVP Rahuri	25	10	• Seeds (Anuradha) 80 Kg x Rs. 50	**4000**	Mr. V.D. Vaikunthe SMS (Agronomy) &

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
		shallow soils • Moisture stress					• Bund former- 1 No.	**900**	Mr. N.H.Bhandi SMS (Soil Science)
							Total	**7800**	
3	Wheat (Banahatti)	• Low productivity due to cultivation of non- descript variety	• Demonstration of UAS-304 variety	UAS, Dharwad	3	1.2	• Seeds (UAS-304) – 180 Kg x Rs. 50	**9000**	Mr. V.D. Vaikunthe SMS (Agronomy)
4	Foxtail millet (Shirunja)	• Moisture stress • Low productivity due to cultivation of local variety • Non remunerative price	Demonstration of HMT100-1 variety	UAS, Dharwad	12	5	• Seeds : HMT100-1 50 kg x Rs. 50	**2500**	Mr.V.D. Vaikunthe SMS (Agronomy), Mr. N.H.Bhandi SMS (Soil Science) & Mrs. Sudha S.R SMS (Home Science)
B	**OILSEEDS**								
1	Groundnut (Bunch & Spreading) (Kadkol & Shirunja)	• Moisture stress • Imbalanced nutrition • Incidence of collar rot disease • Incidence of leaf minor pest • Weed problem		UAS, Dharwad	10	4	• Carboxin 0.6 Kg x Rs. 1700	1020	Mr. V.D. Vaikunthe SMS (Agronomy), Mr. N.H. Bhandi SMS (Soil Science), Mr. S.K. Mudlapur SMS (Plant Protection) & Mrs. Sudha S.R. SMS (Home Science)
							• Rhizobium – 5 Kg x Rs. 35	175	
							• PSB 5 Kg x Rs.35	175	
							• $ZnSO_4$ – 100 Kg x Rs. 40	4000	
							• Gypsum 20Qt x Rs.360	7200	
							• Profenophos – 3 lit x Rs.506	1518	
							• Nimbicidine – 3 lit x Rs. 350	1050	
							Total	**15138**	

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
2	Groundnut (Summer) (Shirunja & Jakkali)	• Low productivity of local variety • Imbalanced nutrition • Incidence of collar rot disease • Incidence of leaf minor pest • High incidence of weed infestation • Low soil fertility • Unscheduled irrigation	ICM in TAG-24 variety	UAS, Dharwad	6	2.4	• Seed (TAG – 24) Pods 10 Qtl x Rs. 5000	50000	Mr. V.D. Vaikunthe SMS (Agronomy), Mr. N.H. Bhandi SMS (Soil Science), Mr. S.K. Mudlapur SMS (Plant Protection) & Mrs. Sudha S.R. SMS (Home Science)
							• Carboxin – 0.750 Kg x Rs. 1700	1275	
							• Rhizobium – 6 Kg x Rs.35	210	
							• PSB – 6 Kg x Rs. 35	210	
							• $ZnSO_4$ – 60 Kg x Rs. 40	2400	
							• Gypsum 12 Qt x Rs. 360	4320	
							• Profenophos – 2 ltr x Rs. 500	1000	
							• Pendimethalin 2.5 lit x Rs.460	1150	
							Total	**58185**	
C	**PULSES**								
1	Green gram (Jakkali & Shirunja)	• Moisture stress • Pod shattering • Incidence of pod borer pest • Incidence of powdery mildew • Lack of value addition	ICM in Selection-4 variety & DGGV-2 variety	UAS, Dharwad	25	10	• Bund former 2 No. x 900	1800	Mr. V.D. Vaikunthe SMS (Agronomy), Mr. S.K. Mudlapur SMS (Plant Protection), Mr.N.H.Bhandi SMS (Soil Science) & Mrs. Sudha S.R. SMS (Home Science)
							• Seeds : Selection-4 variety 125 kg x Rs. 100	12500	
							• Rhizobium – 5 kg x Rs.35	175	
							• PSB – 5 kg x Rs. 35	175	
							• Trichoderma – 500 gm x Rs. 160/Kg	80	

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
							• Profenophos – 7.5 lit @ Rs. 500/lit	3750	
							• Hexaconazole- 5 ltr x 375	1875	
							• Cycle weeder-4 No. X Rs. 1250	5000	
							• Spiral Separator-1 No.	11000	
							Total	**36355**	
2	Bengal gram (Jakkali & Banahatti)	• Moisture stress • Low productivity due to local variety • Incidence of wilt disease • Incidence of pod borer pest • Drudgery in harvesting • Lack of value addition	ICM in JG-11 variety	UAS, Dharwad	25	10	• Seeds JG-11 : 625 Kg x Rs. 45	28125	Mr.V.D. Vaikunthe SMS (Agronomy), Mr. S.K. Mudlapur SMS (Plant Protection) Mr. N.H.Bhandi SMS (Soil Science) & Mrs. Sudha S.R SMS (Home Science)
							• Carboxin – 600 gm x Rs. 170/-	1020	
							• Rhizobium - 10 Kg x Rs. 35	350	
							• PSB – 10 kg x Rs. 35	350	
							• Profenophos – 7.5 lit x Rs. 500	3750	
							• Indoxicarb – 2 lit x Rs. 3850	7700	
							• Ememectin benzoate –1 lit x Rs. 8500	8500	
							• Hand gloves – 20 No. @ Rs.200	4000	
							Total	**53795**	

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
D	**COTTON**								
1	Bt. Cotton (Kadakol & Shirunja)	• Application of imbalanced nutrients • Incidence of leaf reddening • Incidence of sucking pests • Incidence of black arm disease • Improper irrigation schedule • Drudgery in harvesting	ICM in Bt. Cotton	UAS, Dharwad	10	4	• $MgSO_4$ – 20 Kg x Rs. 50/kg	1000	Mr. V.D.Vaikunthe SMS (Agronomy), Mr. S.K. Mudlapur SMS (Plant Protection), Mr. N.H.Bhandi SMS (Soil Science) & Mrs. Sudha S.R. SMS (Home Science)
							• Imidacloprid – 1 lit x 2000	2000	
							• Streptocyclene sulphate – 0.600 Kg x Rs.6600	3960	
							• COC – 5 Kg x Rs. 490	2450	
							Total	**9410**	
E	**OTHER COMMERICAL CROPS**								
1	Mulberry (Shirunja & Kadkol)	• Application of imbalanced nutrients • Incidence of leaf defoliators & powdery mildew disease	ICM in Mulberry	CSRTI, Mysore	6	2.4	• Foliar spray of Micro nutrients (Harith) – 6 ltr @ Rs.200/ltr	1200	Mr. S.K. Mudlapur SMS (Plant Protection)
							• DDVP – 3 liters @ 1.25 l/ha @ Rs.560/ltr	1680	
							• Carbendazim – 1.5 Kg@ Rs.700/Kg	1050	
							Total	**3930**	
2	Silk worm rearing (Kadkol & Shirunja)	Low quality and quantity of Cocoon yield	Demonstration of Mulberry leaf treatment with Azolla 25% leaf extract after 3rd moult	CSRTI, Mysore	6	6	Polythene sheet 4 mtx 2 mt of 6 Nos. @ Rs.60/mt	2880	Mr. S.K. Mudlapur SMS (Plant Protection)
							Azolla 6 Kg @ Rs.100/Kg	600	
							Total	**3480**	

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
F	**HORTICULTURAL CROPS**								
1	Banana (Shirunja & Kadakol)	(i) Application of imbalanced nutrients	INM	IIHR, Bangalore	10	4	Banana special - 40 Kg @ Rs.140/Kg	5600	Mr. K.T.Patil SMS (Horticulture) & Mr. N.H.Bhandi SMS (Soil Science)
		(ii) High incidence of Sigatoka disease	IDM	UAS, Dharwad	As above in same fields	As above in same fields	Propiconazole - 4 lit @ Rs.1200/lit	4800	Mr. S.K.Mudlapur SMS (Plant Protection) & Mr. K.T.Patil SMS (Horticulture)
							Total	**10400**	
3	Chrysanthemum (Shirunja & Kadakol)	• Application of imbalanced nutrients • Incidence of leaf spot	ICM	IIHR, Bangalore & UAS, Dharwad	10	4	Water soluble NPK 19:19:19 - 8 Kg @ Rs.150/Kg	1200	Mr. K.T.Patil SMS (Horticulture), Mr. N.H.Bhandi SMS (Soil Science), & Mr. S.K.Mudlapur SMS (Plant Protection)
							Micronutrient mixture @ 3 lit @ Rs.1000/lit	3000	
							Propiconazole - 2 lit @ Rs.1400/lit	2800	
							Total	**7000**	
4	Onion (Jakkali)	• High incidence of purple blotch disease in onion • Low keeping quality • Uneven crop stand • Incidence of thrips and purple blotch disease in onion • Incidence of weed	ICM in onion	IIHR, Bangalore & RAU Pusa, Bihar	10	4	Seeds (Arka Kalyan) - 10 Kg @ Rs.600/Kg	6000	Mr. K.T.Patil SMS (Horticulture), Mr. N.H.Bhandi SMS (Soil Science), & Mr. S.K.Mudlapur SMS (Plant Protection)
							Quizalpop Ethyl-4 L @ Rs.1400/L	5600	
							Total	**11600**	

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
5	Coriander (Shirunja)	• Less foliage in local variety	ICM in Coriander with introduction of Nutan variety	UAS, Dharwad	10	2	Seeds (Nutan) – 20 Kg @ Rs.300/Kg	6000	Mr. K.T.Patil SMS (Horticulture) & Mr. S.K.Mudlapur SMS (Plant Protection)
							Wettable suphur – 4 Kg @ Rs.500/Kg	2000	
							Total	**8000**	
G	**LIVESTOCK/ FISHEIRES**								
1	Buffalo (Shirunja & Kadakol)	Reduced intake of dry fodder and prevent wastage of dry fodder	Using of chaff cutter machine with 2 HP motor	KVFSU, Bidar	20	4	• Chaff cutter machine @ Rs. 11000/ machine with subsidy supplied by Department of Animal Husbandry	**44000**	Dr. B.M. Murgod Programme Assistant (Animal Science)
2	Livestock Animals (Cow, Buffaloe, Sheep & Goat) (Jakkali, Shirunja & Kadakol)	Low body weight and less productivity due to mineral deficiency	Management of Infertility problem and low body weight gain	KVK Namakkal under TNAUVAS, Chennai	15	3	• Mineral lick making machine @ Rs.10000/machine	**30000**	Dr. B.M. Murgod Programme Assistant (Animal Science)

S.No.	Category/ Crop or enterprise	Prioritized problem	Title of Technology	Source	No. of Demo	Area (ha)/ Units	Details of critical inputs	Total cost involved (Rs.)	Names of the team members involved
H	**OTHER ENTERPRISES**								
1	Integrated Farming system (Shirunja & Kadakol)	• Lack of technology adoption in IFS enterprises & less diversification leading to income insecurity	**Promotion of Technology adoption & enhancing IFS enterprises with following components** • Agro-Horti, Horti-Silvi systems • Green manuring trees • Organic input production • Azolla cultivation • Vegetable cultivation • Flower cultivation	UAS, Dharwad	6	0.4 ha/ farmer / unit	• Mango/Cashew grafts 20 grafts @ Rs. 50 • Drumsticks seedlings – 200 @ Rs. 10 • Chrysanthemum Suckers – 5000 @ Rs. 0.25 • Vegetable seeds • Earthworm 2 kg @ Rs. 300/Kg • Green manuring tree cuttings & other seedlings of various useful species • Azolla culture 1 Kg & polythene sheet • Barrels for Jeevamruta & production • Fodder slips & seeds • Cycle weeder • Envirofit chulha • Aluminium drum for grain storage • Bricks for vermicomposting unit • Vermi wash unit	ICAR is yet to approve the IFS	All SMS

D. Trainings

i) Farmers/ Farm Women

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/ FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
1	Greengram	Abiotic stress	FLD	*In-situ* soil moisture conservation practice	02	Mr. N.H.Bhandi SMS (Soil Science) & Mr. V.D.Vaikunthe SMS (Agronomy)
		Low productivity due to powdery mildew and pod borer	FLD	Management of pod borer and powdery mildew	02	Mr. S.K.Mudlapur SMS (Plant Protection)
		Low productivity of local variety due to pod shattering	FLD	ICM in S-4 variety	02	Mr. V.D.Vaikunthe SMS (Agronomy)& Mr. S.K.Mudlapur SMS (Plant Protection)
		Labour problem for weeding, harvesting and inter cultivation	FLD	Drudgery reducing equipments –Cycle Weeder	03	Mrs. Sudha S.R. SMS (Home Science)
		Lack of value addition	-	Value addition through grading by using spiral seperator	01	Mrs. Sudha S.R. SMS (Home Science) & Mr. V.D.Vaikunthe SMS (Agronomy)
2	Bengalgarm	Incidence of wilt	FLD	ICM	02	Mr. S.K.Mudlapur SMS (Plant Protection)
		Incidence of pod borer	FLD	IPM	02	Mr. S.K.Mudlapur SMS (Plant Protection)
		Lack of value addition	FLD	Value addition through grading by using spiral seperator	01	Mrs. Sudha S.R. SMS (Home Science)
		Drudgery	FLD	Drudgery reducing equipments	01	Mrs. Sudha S.R. SMS (Home Science)
		Moisture stress	FLD	Resource conservation technology	02	Mr. N.H.Bhandi SMS (Soil Science) & Mr. V.D.Vaikunthe SMS (Agronomy)
3	Groundnut	Abiotic stress	FLD	*In-situ* moisture conservation	02	Mr. V.D.Vaikunthe SMS (Agronomy)& Mr. N.H.Bhandi SMS (Soil Science)
		Imbalanced nutrition	FLD	ICM	03	Mr. V.D.Vaikunthe SMS (Agronomy)& Mr. S.K.Mudlapur
		Low				

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/ FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
		productivity of local variety				SMS (Plant Protection)
		Incidence of leaf minor	FLD	Leaf minor management	02	Mr. S.K.Mudlapur SMS (Plant Protection)
		Weed problem	FLD	Chemical weed management	02	Mr. V.D.Vaikunthe SMS (Agronomy)
5	Hybrid Cotton	Lack of Knowledge on production technology	FLD	ICM in Bt. Cotton	02	Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)
		Leaf reddening	FLD	Management of leaf reddening	02	Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)
		Drudgery in harvesting of Cotton	Refinement	Drudgery reducing equipments	02	Mrs. Sudha S.R. SMS (Home Science)
6	Foxtail millet	Low productivity	FLD	ICM in millets	01	Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)
		Value Addition	FLD	Value addition in millets	01	Mrs. Sudha S.R. SMS (Home Science)
7	Maize	Improper irrigation	FLD	Irrigation management	02	Mr. N.H.Bhandi SMS (Soil Science)
		Imbalanced nutrition	FLD	INM in Maize	02	Mr. N.H.Bhandi SMS (Soil Science)
		Incidence of army worm pest	FLD	Pest management	01	Mr. S.K.Mudlapur SMS (Plant Protection)
		Moisture stress	FLD	Resource Conservation technology	03	Mr. N.H.Bhandi SMS (Soil Science) & Mr. V.D.Vaikunthe SMS (Agronomy
		Low soil fertility	FLD	Soil fertility management	03	Mr. N.H.Bhandi SMS (Soil Science) & Mr. S.K.Mudlapur SMS (Plant Protection)
8	Rabi Jowar	Moisture stress	FLD	Soil moisture conservation practices and seed priming	03	Mr. N.H.Bhandi SMS (Soil Science) & Mr. V.D.Vaikunthe SMS (Agronomy)
		Low productivity of Maladandi (M35-1)variety	FLD	ICM in CSV-22 & Anuradha varieties	02	Mr. V.D.Vaikunthe SMS (Agronomy)
9	Wheat	Low productivity of local variety	FLD	ICM	01	Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/ FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
10	Onion	Poor quality of bulb & uneven crop stand	FLD	ICM in Onion	02	Mr. K.T.Patil SMS (Horticulture) & Mr. S.K.Mudlapur SMS (Plant Protection)
		Non availability of quality seed	-	Seed production	01	
		Weed problem	FLD	Chemical weed management	01	Mr. K.T.Patil SMS (Horticulture) & Dr.L.G.Hiregoudar Programme Coordinator
11	Mango	Lack of crop diversification	FLD	Dry land horticulture	02	Mr. K.T.Patil SMS (Horticulture)
		Incidence of hoppers & powdery mildew disease	-	Management of hoppers and powdery mildew disease	02	Mr. S.K.Mudlapur SMS (Plant Protection) & Mr. K.T.Patil SMS (Horticulture)
13	Brinjal	Shoot & fruit borer	FLD	Management of shoot & fruit borer	01	Mr. S.K.Mudlapur SMS (Plant Protection) & Mr. K.T.Patil SMS (Horticulture)
14	Chrysanthemum	Imbalanced nutrition & incidence of leaf spot	FLD	ICM	01	Mr. N.H.Bhandi SMS (Soil Science) & Mr.K.T.Patil SMS (Horticulture) & Mr. S.K.Mudlapur SMS (Plant Protection)
15	Mulberry	Incidence of leaf defoliator & imbalanced nutrients	FLD	ICM	01	Mr. S.K.Mudlapur SMS (Plant Protection)
16	Banana	Imbalanced nutrients	FLD	INM & Precision farming	01	Mr. K.T.Patil SMS (Horticulture) & Mr. N.H.Bhandi SMS (Soil Science)
		Incidence of Sigatoka disease	FLD	Management of Sigatoka disease	01	Mr. S.K.Mudlapur SMS (Plant Protection)
17	Dairy Enterprises	Imbalanced nutrition	FLD	Azolla cultivation & Nutrient management	04	Dr. B.M.Murgod Programme Assistant (Animal Husbandry) & Mr. V.D.Vaikunthe SMS (Agronomy)
				Fodder cultivation	01	
		Worm Infestation	FLD	Ecto and endo parasite management	02	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)
		Ticks	FLD	Tick management	03	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/ FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
18	Sheep	Worm infestation	FLD	Deworming	03	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)
19	EDP & Nutrition	Poor health	-	EDP & creating awareness on nutritional deficiency	03	Mrs. Sudha S.R. SMS (Home Science)
20	Farm implements	Drudgery in weeding	FLD	Drudgery reduction equipments	02	Mrs. Sudha S.R. SMS (Home Science)
21	Value addition	Lack of awareness	-	Importance of potential grains in diet and value addition	01	Mrs. Sudha S.R. SMS (Home Science)
22	Health and Nutrition	Lack of Awareness on Health, Hygiene and Nutrition	-	• Awareness creation to primary school, children, SHG members, on constituents of food, balanced diet, nutrition garden etc. • Training to Adolescent girls on Nutrition and Reproductive Health issues. (Collaboration with Health Dept) • Training to farm women on nutrition	10	Mrs. Sudha S.R. SMS (Home Science)
23	Drinking water	Drinking water contains high salts & fluorides	-	• Purification of water by Amla fruit & drumstick seeds	3	Mrs. Sudha S.R. SMS (Home Science)

ii) Rural Youth

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/ FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
1	Maize	Lack of knowledge on ICM practice	FLD	ICM	2	Mr. N.H.Bhandi SMS (Soil Science)& Mr. V.D.Vaikunthe SMS (Agronomy)
2	Groundnut	Lack of knowledge on ICM practice	FLD	ICM	2	Mr. N.H.Bhandi SMS (Soil Science)& Mr. V.D.Vaikunthe SMS (Agronomy)
3	Bt. Cotton	Lack of knowledge on ICM practice	FLD	IPM	2	Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)
4	Chrysanthemum	Lack of knowledge on ICM practice	FLD	ICM	1	Mr. K.T.Patil SMS (Horticulture)
5	Dairy animals	Imbalanced nutrition	FLD	Azolla cultivation	2	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)
6	All crops & enterprises	Under employment	-	Agripreneurship development in dairy, sericulture	1	Mr. S.H.Adapur SMS (Ag. Extension) & all other SMSs & PAs
7	Pulses	Lack of value addition	FLD	Secondary agriculture	1	Mr. V.D.Vaikunthe SMS (Agronomy) & Mrs. Sudha S.R. SMS (Home Science)
8	All crops	Lack of marketing skills	-	Marketing management	1	Mr. S.H.Adapur SMS (Ag. Extension)
9	Food processing	Seasonal employment	-	Value added products & marketing skills	1	Mrs. Sudha S.R. SMS (Home Science)

iii) Extension Personnel

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
1	*In-situ* soil moisture conservation	Moisture stress	FLD	*In-situ* soil moisture conservation practices	02	Mr. N.H.Bhandi SMS (Soil Science) & Mr.V.D.Vaikunthe SMS (Agronomy)
2	Groundnut	Enhancement of productivity	FLD	Integrated Crop Management & Dry Land	02	Mr.V.D.Vaikunthe SMS (Agronomy) & Mr.S.K.Mudlapur SMS (Plant

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/FLD)*	Training Course Title**	No. of Courses	Names of the team members involved
				Practices		Protection)
3	Bt Cotton	Leaf reddening	FLD	ICM	01	Mr.V.D.Vaikunthe SMS (Agronomy) Mr.S.K.Mudlapur SMS (Plant Protection) & Mr. N.H.Bhandi SMS (Soil Science)
4	Maize	Lack of knowledge on ICM practices	FLD	ICM	01	Mr.N.H.Bhandi, SMS (Soil Science) Mr. S.K.Mudlapur SMS (Plant Protection) & Mr. V.D.Vaikunthe SMS (Agronomy)
5	Onion	Low productivity	FLD	ICM	01	Mr.K.T.Patil SMS (Horticulture) & Mr. S.K.Mudlapur SMS (Plant Protection)
6	Banana	Imbalanced nutrition & incidence of Sigatoka disease	FLD	ICM in Banana	01	Mr.K.T.Patil SMS(Horticulture) Mr.N.H.Bhandi SMS (Soil Science) & Mr. S.K.Mudlapur SMS (Plant Protection)
7	Pulses & millets	Lack of value addition	FLD	Value addition	01	Mrs. Sudha S.R. SMS (Home Science)
8	Drudgery	Drudgery of farm women	FLD	Drudgery reducing equipments	02	Mrs. Sudha S.R. SMS (Home Science)
9	Nutrition	Lack of awareness on millets	FLD	Dept. of women and child welfare	01	Sudha S.R. SMS (Home Science)
10	All crops & enterprises	Lack of knowledge on improved technology	FLD	Training of facilitators of KSDA on lead crops and enterprises	01	All SMSs & PAs

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
Dairy	Entrepreneurship in dairy farming	3 (5 days)	Youths, SHGs	Mr.S.H.Adapur SMS (Ag. Extension) & Dr.B.M.Murgod Programme Assistant (Animal Husbandry)
Sericulture	Entrepreneurship in sericulture enterprise	1 (5 days)	SHGs, Youths	Mr.S.H.Adapur SMS (Ag. Extension) & Mr. S.K.Mudlapur SMS (Plant Protection)
Wheat	Value addition	1 (3 days)	Women SHGs	Mrs. Sudha S.R. SMS (Home Science)
Sorghum	Value addition	1 (3 days)	Women SHGs	Mrs. Sudha S.R. SMS (Home Science)
Vermicompost	Vermicompost technology	1 (3 days)	Youths	Mr. S.K.Mudlapur SMS (Plant Protection)
Vegetables	Seed production in Okra and onion	1 3 days	Youths	Mr.K.T.Patil SMS (Horticulture)
Millets	Value addition in millets	1 3 days	Women SHG	Mrs. Sudha S.R. SMS (Home Science)

v) Sponsored trainings

Crop/ Enterprise	Sponsoring Organization	Training course title*	No. of Courses	Names of the team members involved
All crops	KSDA (Agriculture Department)	Soil fertility management	3	Mr. N.H.Bhandi SMS (Soil Science)
Soil & water conservation	Watershed Development Department	*In-situ* soil moisture conservation	3	Mr. N.H.Bhandi SMS (Soil Science)
Oil seeds	KSDA	ICM	3	Mr. N.H.Bhandi SMS (Soil Science), Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)
Pulses	KSDA	ICM	2	Mr. N.H.Bhandi SMS (Soil Science), Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)
Soil, Water & Crop Management	CADA	Soil, water & crop management in command area	10	Mr. N.H.Bhandi SMS (Soil Science), Mr. V.D.Vaikunthe SMS (Agronomy) & Mr. S.K.Mudlapur SMS (Plant Protection)

Crop/ Enterprise	Sponsoring Organization	Training course title*	No. of Courses	Names of the team members involved
Dairy Enterprises	Zilla Panchayat under SGSY	Management of milch animals	8	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)
Amla	IIHR Bangalore & Medicinal Plant Board	Training on cultivation of medicinally important crop and value addition	3	Mr. K.T.Patil SMS(Horticulture), & Mrs. Sudha S.R. SMS (Home Science)

E. Extension programmes

Month	Extension programme*	Linked field intervention**	Expected category of participants	Names of the team members involved
April	• Soil sample collection & testing	• Front Line Demonstration	Farmers & rural youths	Mr. N.H.Bhandi SMS(Soil Science)
	• Kharif campaign on Soil & Water conservation (Jalanayana Mela, water literacy camps)	• Demonstrations	Farmers, farm women & rural youths	All SMS
	• Method demonstration campaign in compartment bunding	• Training programme	Farmers	Mr. N.H.Bhandi SMS(Soil Science) & Mr. V.D.Vaikunthe SMS (Agronomy)
	• Farmers meetings	• Front Line Demonstration	Farmers & farm women	Mr. S.H.Adapur SMS (Ag. Extension)
	• Seminar on resource conservation technologies Kharif crops	• Training & FLD	Farmers & rural youths	All SMS
	• Bringing out quarterly news letter in Kannada & English	Mandated activities	Farmers, Farmwomen, rural youths and extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & other SMSs and PAs
May	• Soil sample collection & testing	• Training programme & FLD	Farmers & rural youths	Mr. N.H.Bhandi SMS(Soil Science)
	• Kharif campaign on crops	• Front line demonstrations	Farmers, farm women & rural youths	All SMS
	• Soil and water conservation campaigns	• Training & FLD	Farmers & rural youths	Mr. N.H.Bhandi SMS(Soil Science) & Mr. V.D.Vaikunthe SMS (Agronomy)

Month	Extension programme*	Linked field intervention**	Expected category of participants	Names of the team members involved
	• Farmers meeting	• Front line demonstrations	Farmers & farm women	Mr. S.H.Adapur SMS (Ag. Extension)
	• Establishment of Farm Resource Center	• Extension activities	Farmers & rural youths	Mr.S.H.Adapur SMS (Ag. Extension)
	• Linkage with VSS bank & KMF	• Extension activities	VSS & KMF officers	Mr.S.H.Adapur SMS (Ag. Extension)
June	• Orchard layout	• Training	Farmers & rural youths	Mr.K.T.Patil SMS (Horticulture)
	• Animal health camps	• FLD	Farmers, farm women & rural youths	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)& Mr. S.H.Adapur SMS (Ag. Extension)
	• Method demonstration on vermicompost preparation	• FLD	Farmers, Youths	Mr. S.K.Mudlapur SMS (Plant Protection)
	• Demonstration of cycle weeders	• FLD	Farm women & farmers	Mrs. Sudha S.R. SMS (Home Science) & Mr. V.D.Vaikunthe SMS (Agronomy)
	• Method demonstration on seed priming	• FLD	Farm women & Farmers	Mr. V.D.Vaikunthe SMS (Agronomy)
	• Bringing out quarterly news letter in Kannada & English	Mandated activities	Farmers, Farmwomen, rural youths and extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & other SMSs and PAs
July	• Demonstration of weeders	• Training • FLD	Farm women & farmers	Mrs. Sudha S.R. SMS (Home Science) & Mr. V.D.Vaikunthe SMS (Agronomy)
	• Demonstration on chemical weed management in onion and groundnut	• FLD	Farmers	Mr.K.T.Patil SMS (Horticulture) & Mr. V.D.Vaikunthe SMS (Agronomy)
August	• Field day on Greengram	• FLD	Farmers	Mr.S.H.Adapur SMS (Ag. Extension) & Mr.V.D.Vaikunthe SMS (Agronomy)

Month	Extension programme*	Linked field intervention**	Expected category of participants	Names of the team members involved
	• Demonstration on Azolla	• Training • FLD	Farm women & farmers	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)
	• Linkage of SHGs with Bank	• Training	Farm women	Mr.S.H.Adapur SMS (Ag. Extension)
September	• Method demonstration on seed priming	• FLD		Mr. V.D.Vaikunthe SMS (Agronomy)
	• Seminar on marketing management	• Training	Farmers & rural youths	Mr. S.H.Adapur SMS (Ag. Extension)
	• Exhibition on value added products	• Training	Farmers & Farmwomen	Mrs. Sudha S.R. SMS (Home Science)
	• Bringing out quarterly news letter in Kannada & English	Mandated activities	Farmers, Farmwomen, rural youths and extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & other SMSs and PAs
October	• Rabi campaign	• Training	Farmers & farm women	All staff
	• World Food Day Celebration	• Celebration	Farmers & farm women	Mrs. Sudha S.R SMS (Home Science)
	• Field day on Chrysanthemum	• FLD	Farmers & extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & Mr. K.T.Patil SMS (Horticulture)
November	• Field day on Onion	• FLD	Farmers & extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & Mr. K.T.Patil SMS (Horticulture)
	• Field day on Groundnut	• FLD	Farmers & extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & Mr. V.D.Vaikunthe SMS (Agronomy)
December	• Women in Agriculture day	Celebration	Farm women & extension functionaries	Mrs. Sudha S.R SMS (Home Science) & Mr. S.H.Adapur SMS (Ag. Extension)
	• Exhibition of value added products of foxtail millet	FLD	Farm women, rural youths & extension functionaries	Mrs. Sudha S.R SMS (Home Science)
	• Field day on maize & Bt. Cotton		Farmers & extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) &

Month	Extension programme*	Linked field intervention**	Expected category of participants	Names of the team members involved
				Mr. V.D.Vaikunthe SMS (Agronomy)
	• Seminar on PHT in onion	Training	Farmers, rural youths & extension functionaries	Mr. K.T.Patil SMS (Horticulture)
	• Bringing out quarterly news letter in Kannada & English	Mandated activities	Farmers, Farmwomen, rural youths and extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & other SMSs and PAs
January	• Field day in Bengalgram	FLD	Farmers & extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & Mr. V.D.Vaikunthe SMS (Agronomy)
	• Technology Week Celebration & Exhibition	Mandated activities	Farmers, farm women, rural youths & extension functionaries	All staff
	• Animal health camp	Training	Farmers, farm women, rural youths & extension functionaries	Dr.B.M.Murgod Programme Assistant (Animal Husbandry)& Mr. S.H.Adapur SMS (Ag. Extension)
February	• Field day on Rabi jowar	FLD	Farmers & extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & Mr. V.D.Vaikunthe SMS (Agronomy)
	• Demonstration on Improved Sickle	FLD	Farm women	Mrs. Sudha S.R SMS (Home Science)
	• Method demonstration on cotton bags	OFT	Farm women	Mrs. Sudha S.R SMS (Home Science)
	• Exhibition of Value added products	Training	Farm women	Mrs. Sudha S.R SMS (Home Science)
	• Radio & TV programme on value addition	Training	Farm women & Farmers	Mrs. Sudha S.R SMS (Home Science)
March	• Field day on wheat	FLD	Farmers & extension functionaries	Mr. S.H.Adapur, SMS (Ag. Extension) Mr. V.D.Vaikunthe SMS (Agronomy)
	• Method demonstration on Envirofit chulha	OFT	Farm women & extension functionaries	Mrs. Sudha S.R SMS (Home Science)

Month	Extension programme*	Linked field intervention**	Expected category of participants	Names of the team members involved
	• Field day on summer Groundnut	FLD	Farmers & extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & Mr. V.D.Vaikunthe SMS (Agronomy)
	• Bringing out quarterly news letter in Kannada & English	Mandated activities	Farmers, Farmwomen, rural youths and extension functionaries	Mr. S.H.Adapur SMS (Ag. Extension) & other SMSs and PAs

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	• Technology park on food processing	1 No.	Mrs. Sudha S.R. SMS (Home Science)
	• Crop cafeteria on precision farming	1 ha	Mr. K.T.Patil SMS (Horticulture) & Mr. N.H.Bhandi SMS (Soil Science)
	• Improved variety of millets	1 ha	Mr. V.D.Vaikunthe SMS (Agronomy)
	• Improved variety of pulses	1 ha	Mr. V.D.Vaikunthe SMS (Agronomy)
	• Improved varieties of Rabi Sorghum	1 ha	Mr. V.D.Vaikunthe SMS (Agronomy)
	• Improved variety of vegetables	1 ha	Mr. K.T.Patil SMS (Horticulture)
	• Improved variety of fodder crops	0.4 ha	Dr.B.M.Murgod Programme Assistant (Animal Husbandry)
Demonstration Units	• Gerbera cultivation in poly house	5 Gunta	Mr. K.T.Patil SMS (Horticulture)
Lab Analytical services	• Pest and disease identification in Bt. Cotton, Banana, Mango and flower crops and recommendations	200 No.	Mr.S.K.Mudlapur SMS (Plant protection)
Technology Week	• Soil and water technologies, Rain water harvesting, Bore well recharging,Rabi crops technologies, value addition, drudgery reducing equipments, farm mechanization and equipments	1 No.	P.C., All SMS & Programme Assistants

B. Technological Products

Category	Name of the product	Quantity (Qtl./ Number)	Names of the team members involved
Seeds	• Greengram	25.00	Mr.V.D.Vaikunthe SMS (Agronomy)
	• Bengalgram	30.00	Mr. V.D.Vaikunthe SMS (Agronomy)
	• Rabi Sorghum	20.00	Mr.V.D.Vaikunthe SMS (Agronomy)
	• Cotton	50.00	Mr. V.D.Vaikunthe SMS (Agronomy)
	• Onion	20.00	Mr. K.T.Patil SMS (Horticulture)
	• Bhendi, Tomato, Cucumber & Beans	0.20	Mr. K.T.Patil SMS (Horticulture)
Planting materials	• Mango	2000	Mr. K.T.Patil SMS (Horticulture)
	• Tamarind	2000	Mr. K.T.Patil SMS (Horticulture)
Bio-products	• Earthworm	4.0	Mr.S.K.Mudlapur SMS (Plant protection)
	• Bio-fertilisers	2.0	Mr. N.H.Bhandi SMS (Soil Science)
	• Trichoderma	5.0	Mr.S.K.Mudlapur SMS (Plant protection)
Livestock strains	-	-	-
Fish fingerlings	-	-	-

C. Technological Information

Category	Technological capsules / Number	Names of the team members involved
Technology backstopping to line departments		
Agriculture	• Improved farm mechanization in agriculture	Mr. V.D.Vaikunthe SMS (Agronomy)
	• ICM in Bt. Cotton	Mr.V.D.Vaikunthe SMS (Agronomy), Mr. S.K.Mudlapur SMS (Plant Protection)
	• INM in Groundnut	Mr.N.H.Bhandi SMS (Soil Science)
	• Dry land technologies	Mr.V.D.Vaikunthe SMS (Agronomy)
Horticulture	• Precision farming in Banana	Mr. K.T.Patil SMS (Horticulture)& Mr. N.H.Bhandi SMS (Soil Science)
	• Dry land horticulture	Mr. K.T.Patil SMS (Horticulture)
	• INM in flower crops	Mr. N.H.Bhandi SMS (Soil Science)
Animal Husbandry	• Fodder crops	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)
	• Azolla cultivation	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)

Category	Technological capsules / Number	Names of the team members involved
	• Balanced nutrition	Dr. B.M.Murgod Programme Assistant (Animal Husbandry)
Sericulture	• ICM in Mulberry cultivation	Mr.S.K.Mudlapur SMS (Plant Protection)
Literature/publication	News letter (Kannada)-20,000 copies	Mr.S.H.Adapur SMS (Ag. Extension)
	News letter (English)-2000 copies	Mr.S.H.Adapur SMS (Ag. Extension)
	Leaflets Nutrition in Banana – 1000 copies	Mr. K.T.Patil SMS (Horticulture)
	Bt. Cotton cultivation – 2000 copies	Mr. V.D.Vaikunthe SMS (Agronomy)& Mr. S.K.Mudlapur SMS (Plant Protection)
	Value addition in cereals – 2000 copies	Mrs. Sudha S.R. SMS (Home Science)
	Dry land horticulture – 2000 copies	Mr. K.T.Patil SMS (Horticulture)
Kisan Mobile Advisory Services	500 message tips	All SMSs
Information on centre/state sector schemes and service providers in the district.	i) State sector scheme on precision farming in horticultural crops for SC-ST beneficiaries	Mr.S.H.Adapur SMS (Ag. Extension)
	ii) State sector scheme on IPM in horticultural crops	-do-
	iii) Central sector scheme on National Food Security Mission	-do-
	iv) Central sector scheme on National Horticultural Mission	-do-
	v) Central sector scheme on ISOPAM	-do-
	vi) Central sector scheme on Cotton Mini Mission	-do-
	vii) Nutritional scheme for millet promotion (INSIMP)	-do-
	viii) Rashtriya Krishi Vikas Yojane	-do-
	ix) Central & State schem on micro irrigation	-do-
	x) State sector scheme on Bhoochetana and Suvarna Bhoomi Yojane	-do-

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 Amla Campaign	• Training, capacity building for school children, SHG & Anganawadi teachers • Planting of Amla seedlings in school premises	Awareness programmes : 4 Trainings : 4	8.75 lakhs (2010-11 to 2012-13)	Mr. K.T.Patil SMS (Horticulture) & Mrs. Suda.S.R. SMS (Home Science)

10. Revolving Fund

A. Financial status

Opening balance as on 01.04.2011 (Rs.in Lakh)	Expenditure incurred during 2011-12 (Rs.in Lakh)	Receipts during 2011-12 (Rs.in Lakh)	Closing balance as on 31.01.2012 (Rs.in Lakh)
3.68	10.96	9.23	1.95

B. Plan of activities

S.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
1	Value added products of Amla : Amla Candy Amla powder Amla supari	 50 Kg 25 Kg 20 Kg	 10000 5000 18000	Mrs. Sudha.S.R. SMS (Home Science)
2	Value addition in Karounda (pickle)	5 Qtls.	40000	Mrs. Sudha.S.R. SMS (Home Science)
3	Processing of cashews	90 Kgs	30000	Mrs. Sudha.S.R. SMS (Home Science) & Mr. K.T.Patil, SMS(Horticulture)

11. Activities of soil, water and plant testing laboratory

Type	No.of samples to be analyzed	Names of the team members involved
Soil	500	Mr. N.H.Bhandi SMS (Soil Science)
Water	200	
Plant	50	
Others	50	

12. E-linkage

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
01	Creation of web-site	Already created	-
02	Title of the technology module to be prepared	Greengram – October 2012	-
03	Creation and maintenance of relevant database system for KVK		-
	i) OFT	January 2013	
	ii) FLD	January 2013	
	iii) Training database	Already maintained	
	iv) Seeds & planting material	Already maintained	
	v) Extension activities	Already maintained	
	vi) Database of farmers visiting to our KVK	Already maintained	
	vii) District database	Already maintained	
	viii) Database of soil test	January 2013	
04	Online reporting system of KVK (OFT module)	June 2012	-

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
1	Training to farmers & farmwomen -400 Nos.	-
2	Demonstration on ground water recharging units	-
	Bore well recharging units – 3 Nos.	-
	Open well recharging units – 3 Nos.	-
3	Seminar on RWH : 1 No.	-

14. Innovative Farmer's Meet

Particulars	Details
Are you planning for conducing Farm Innovators meet in your district?	**Yes**/ No
If Yes likely month of the meet	November, 2012
Brief action plan in this regard	KVK is proposing to hold Farm Innovators Meet during the month of November, 2012. An advertisement will be given in the news papers inviting farm innovators to participate in the farm innovators meet. They will be requested to bring the details of their innovation. The innovators will be facilitated

	to present their innovation in the meeting. This will be followed by group discussion on the utility on the innovation. The proceedings of the meeting will be documented. A brief document will be prepared on the various aspects of the innovation done by farm innovators.

15. Farmer's Field School planned

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.
1	Integrated Crop Management	ICM in Bt. Cotton (2 Nos.)	50000

16.Budget

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

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	5000000	5000000	7445629
2	**Traveling allowances**	130000	130000	122151
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	160000	160000	169324
B	POL, repair of vehicles, tractor and equipments	130000	130000	111827
C	Meals/refreshment for trainees	90000	90000	55750
D	Training material	25000	25000	20860
E	Frontline demonstration except oilseeds and pulses	174000	174000	132759
F	On farm testing	100000	100000	72452
G	Training of extension functionaries	20000	20000	10055
H	Maintenance of buildings	25000	25000	25000
i	Library	5000	5000	5129
J	Extension Activities	20000	20000	18730
K	Farmers' Field School	25000	25000	16000
l	FLD on Special Pulses Programme	126000	126000	87545
	TOTAL (A)	**6030000**	**6030000**	**8293211**
B. Non-Recurring Contingencies				
	TOTAL (B)	**0**	**0**	**0**
C. REVOLVING FUND				
	GRAND TOTAL (A+B+C)	**6030000**	**6030000**	**8293211**

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

Sl. No.	Particulars	BE 2012-13 proposed
A. Recurring Contingencies		
1	**Pay & Allowances**	**115.29**
2	**Traveling allowances**	**5.00**
3	**Contingencies**	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	**4.75**
B	POL, repair of vehicles, tractor and equipments	**4.50**
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	**2.50**
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	**2.00**
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	**12.76**
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	**0.53**
G	Training of extension functionaries	**0.50**
H	Maintenance of buildings	**1.00**
I	Establishment of Soil, Plant & Water Testing Laboratory	**0.50**
J	Library	**0.25**
k	Farmers Field School	**0.50**
l	Extension Activities	**1.50**
	TOTAL (A)	**151.58**
B. Non-Recurring Contingencies		
1	**Works**	**50.00**
2	**Equipments including SWTL & Furniture**	**45.25**
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	**9.60**
4	**Library** (Purchase of assets like books & journals)	**1.00**
5	**Live Stock**	**15.00**
	TOTAL (B)	**120.85**
C. SPECIAL PROGRAMMES		
a.	Drought mitigation through Watershed Approach	17.65
b.	Augmenting Agricultural productivity through Seed production	10.62
c.	Livelihood improvement of Small and Marginal Farmers through IFS	10.40
d.	Resource Conservation through Precision Farming	22.10
e.	Community based Enterprise System for Small and Marginal Farmers	17.10
f.	Transfer of Vermicompost and Vermi Wash Production Technology	7.55
g.	Establishment of Center of Excellence for Secondary Agriculture	26.00
	TOTAL (C)	**111.42**
D. REVOLVING FUND		
	GRAND TOTAL (A+B+C+D)	**383.85**