

UNIVERSITY OF AGRICULTURAL SCIENCES

DHARWAD



Action plan meeting-2012-13

At

**DIRECTORATE OF EXTENSION
UNIVERSITY OF AGRICULTURAL SCIENCES
RAICHUR**

On

23rd – 25th February, 2012

By

**KRISHI VIGYAN KENDRA
HANUMANAMATTI – 581 135
RANEBENNUR (Tq.), HAVERI (Dt.)
KARNATAKA**

CONTENTS

Sl. No.	PARTICULAR	Page No.
1	General information about KVK	1
2	Staff details	1
3	Details of SAC meeting	2
4	Capacity building of KVK staff	3
5	Cluster of KVK	3
6	PLAN OF WORK FOR 2012-13	4-7
	A. Operation area	4
	B. Prioritized problems and KVK interventions proposed	6
7	Details of technological interventions	8-17
	A. Technology Assessment	8
	B. Technology Refinement	8
	C. Frontline Demonstrations	9
	D. Trainings	12
	i) Farmers/ Farm Women	12
	ii) Rural Youth	14
	iii) Extension Personnel	15
	iv) Vocational trainings	16
	v) Sponsored trainings	17
	E. Extension programmes	17
8	Activities proposed as Knowledge and Resource Centre	21-22
	A. Technological knowledge	21
	B. Technological Products	21
	C. Technological Information	22
9	ADDITIONAL ACTIVITIES PLANNED	23
10	Revolving Fund	23
	A. Financial status	23
	B. Plan of activities	23
11	Activities of soil, water and plant testing laboratory	23
12	E-linkage	23
13	Activities planned under Rainwater Harvesting Scheme	24
14	Innovative Farmer's Meet	24
15	Farmer's Field School planned	24
16	Budget	25
	A. Details of budget utilization (2011-12) upto 31 January 2012	25
	B. Details of Budget Estimate (2012-13) based on proposed action plan	25
17	Details of technological interventions allotted for 2012-13	26

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

1. General information about the Krishi Vigyan Kendra

1.	Name and address of KVK with Phone, Fax and e-mail, Website	:	Krishi Vigyan Kendra ,Hanumanamatti Ranebennur Taluk, Haveri District, Karnataka State Ph: 08373253524 Fax: 08373253524 Email: kvk_haveri@rediffmail.com www.kvkhaveri.org
2.	Name and address of host organization	:	University of Agricultural Sciences, Dharwad 0836- 2447783 91-836-2745276 vc_uasd@rediffmail.com
3.	Year of sanction	:	1976
4.	Name of agro-climatic zone	:	Northern transitional zone (zone-VIII)
5.	Major farming systems/enterprises	:	Dry land agriculture/horticulture, sheep and goat rearing, dairy and household industries
6.	Soil type	:	Red soil – 40%, Deep Black soil – 20 % and Medium Black soil - 40%
7.	Annual rainfall (mm)	:	777.4

2. Details of staff as on date (January 2012)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	Existing Pay band	Grade Pay	Date of joining	Permanent / Temporary
1.	Programme Coordinator	D.S.M. Gowda	Ag. Engg.	37400-61000	9000	09.06.11	Permanent
2.	Subject Matter Specialist	S.A. Ashtaputre	Plant Pathology	37400-61000	9000	11.06.11	Permanent
3.	Subject Matter Specialist	T.M. Soumya	Agronomy	15600-39100	6000	05.12.08	Permanent
4.	Subject Matter Specialist	G. R. Rajakumar	Soil Science	15600-39100	6000	12.07.11	Permanent
5.	Subject Matter Specialist	S.Y. Mukartal	Animal Science	15600-39100	6000	06.07.09	Permanent
6.	Subject Matter Specialist	Geeta S.Tamgale	Home Science	15600-39100	6000	01.07.09	Permanent
7.	Subject Matter Specialist	Vacant	-	-	-	-	-
8.	Programme Assistant	Mallikarjun A. G.	Soil Science	9300-34800	4200	26.02.09	Permanent
9.	Computer Programmer	Rekha K. N.	Computer programmer	9300-34800	4200	12.11.08	Permanent
10.	Farm Manager	Sairabanu M	Farm Manager	9300-34800	4200	02.07.09	Permanent
11.	Accountant/Superintendent	V.S. Kalakai	Superintendent (General)	10800-25000	-	07.01.09	Permanent
12.	Stenographer	Saroja B. T.	Typist	8000-14800	-	06.11.09	Permanent
13.	Driver 1	Mahesh L.M.	Dirver cum Mechanic	5800-10500	-	12.07.06	Permanent
14.	Driver 2	P.C. Kunbevin	Driver (Tractor)	5800-10500	-	07.06.98	Permanent
15.	Supporting staff 1	C. V. Nelogal	Office Attendent	5200-8200	-	02.11.98	Permanent
16.	Supporting staff 2	K. B. Belakeri	Field Attendent	5200-8200	-	01.07.02	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
1.	29.07.2011	Conduct of FLD on use of boron in sunflower	Implemented FLD on use of Boron in sunflower at Marola village of Haveri taluk during 2011-12	July-2012
2.		Popularization of GPBD-5 variety along with GPBD-4	Proposed during 2012-13	January -2013
3.		Popularization of soybean variety JS-9305 along with JS-335	Proposed during 2012-13	
4.		Popularization of red gram TS-3R along with BSMR-736, similarly Bengal gram BJD-103, sesamum DSS-9 and black gram DU-1	Proposed during 2012-13	
5.		Farm officer, Zonal Office Bangalore suggested to increase trainings on value addition in soybean and minor millets to SHG groups in Haveri district	Four Trainings were conducted to the interested SHG members	
6.		Establishment of fodder banks in rural areas and KVK field	Established the fodder bank consisting of 8 types of grasses in an area of 01 acre at the instructional farm. Establishment in the rural areas will be taken up in 2012-13	
7.		Senior Assistant Director of Fisheries suggested to conduct on campus training on fisheries cultivation	It is planned and communicated with the concerned scientist to take up the activity in 2012-13	
8.		Popularization of mechanized transplanting in paddy	Initiated the demonstration on mechanized paddy transplanting at Malagund village of Hangal taluk in an area of 01 acre during summer 2011-12	
9.		Regularization of KVK news letter	Regularized till December 2011	
10.		Conduct of demonstration on aerobic rice in the SAC member's field at Joisarahalalli village	Initiated the demonstration on aerobic rice cultivation at Joisarahalalli village of Ranebennur taluk in an area of 02 acres during summer 2011-12	
11.		Registration of 10000 farmers for SMS	Registered 5134 farmers under mobile advisory service	
12.		Conduct of demonstrations on both FLD and OFTs in micro watershed areas	Proposed during 2012-13 at Yathnalli Micro watershed of Haveri taluk	
13.		Conduct of on campus vocational trainings	Proposed during 2012-13	
14.		Conduct of demonstration on precision farming in the instructional farm	Proposed during 2012-13	
15.		Organizing farmer's exposure visits for adoption of new technologies	Proposed during 2012-13	
16.		Financial assistance from NABARD and lead bank for organizing farmer's exposure tours and demonstration	Proposed during 2012-13	
17.		Submission of proposal to Zonal office for establishment of sheep, goat and poly house demonstration units	Submitted proposal	
18.		Organizing off campus training programmes on importance of micro nutrients	Conducted two trainings one on campus and one off campus at Marola Haveri taluk	

4. Capacity Building of KVK Staff

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

S. No	Category	Area of training	Institution proposed to attend	Justification	Details of trainings attended during 2011-12
1.	SMS (Animal Science)	Animal nutrition	IVRI, Izatnagar	To know the advancement in animal nutrition	-
		ICT in animal husbandry	MANAGE, Hyderabad	To learn ICT skills	-
2.	SMS (Agronomy)	Soil and water management	WRC, Hyderabad	Update of new interventions	-
3.	SMS (Soil Science)	Remote sensing	NRSA, Pune	Need up gradation	-
4.	SMS (Home Science)	Personality development	KKID, Coimbatore	To learn about the personality development	-
		Building alliances through team ship	KKID, Coimbatore	To learn about the team building	-
		Value Addition to Minor Millets	CFTRI, Mysore	To learn value addition techniques	-
		Process Documentation for development personnel	NAARM, Hyderabad	To learn documentation of KVK activities	-
5.	Lab Technician	Soil testing	-	Needs up gradation	-
6.	Computer Programmer	<ul style="list-style-type: none"> Dynamic web page designing Technology model development Multimedia designing 	-	Needs up gradation	<ul style="list-style-type: none"> Training on SQL and .NET to develop Online reporting system for zone VIII at KVK, Nilgiris Upasi KVK, Content Uploadation and Maintenance of Kiosks at UAS, Dharwad IT Based DSS for Digital Content Development” NAARM, Hyderabad

B. Cross-learning across KVKs

S. No	Name of the KVK	Purpose	Mode of learning
1.	Namakkal, Tamilnadu	Advanced technology in animal husbandry	Training and demonstration
2.	KVK, Izatnagar	Advanced technology in animal husbandry	Training and demonstration
3.	KVK, Gadag	Preparation of Amla products and value addition	Training and demonstration

5. Cluster of KVKs for sharing knowledge/expertise, resources and activities

S. No.	Name of the KVK included in the cluster	Nature of sharing		
		Knowledge/expertise	Resources (facilities and products)	Activities
1	Shimoga	Mechanized paddy cultivation	Technical input on Mechanized paddy cultivation	Trainings, field visit
2	Sirsi	Fodder Production	Root slips and fodder for dairy	Purchase
3	Dharwad	<ul style="list-style-type: none"> Seedling Production Value addition to millets 	<ul style="list-style-type: none"> Horticultural seedlings and technical input Standardized products and practicing SHGs 	Trainings, field visit
4	Gadag	<ul style="list-style-type: none"> Rain water harvesting, IG activity 	<ul style="list-style-type: none"> Technical input on rain water harvesting 	Trainings, field visit
5	Davangere	<ul style="list-style-type: none"> Seed production Fertilizer Production 	<ul style="list-style-type: none"> Ground nut seeds Banana Special fertilizer 	Supply Exchange

6. Plan of Work for 2012-13

A. Operational areas details proposed

S. No.	Taluk/ block	Name of cluster villages		Major crops & enterprises	Major problems identified	Identified thrust areas based on problems	If existing from which year
		Existing	New				
1.	Byadgi	-	Chikbasur Shadambi Shidenur	Cotton	• Leaf reddening, flower & square dropping	Soil testing and Nutrient management	2005
2.				Maize	• Maize-Zinc deficiency, Unscientific fertilizer application	Soil testing and Nutrient management	2005
3.				Banana	Low yield due to reduced bunch size and stunted growth; Leaf spot	Popularization of Banana special and Management of leaf spot disease in Banana	
4.				Greengram	Nutrient deficiency, Spingid & Apion weevil, powdery mildew and leaf spot	Integrated crop management of greengram var. S-4	
5.				Bengalgram	Lack of awareness on improved variety	Integrated crop management of bengalgram var. JG-11	
6.					Lack of awareness on improved variety	Integrated crop management of bengalgram var. BGD-103	
7.				Tomato	Use of low yielding varieties	Introduction of DMT-2	
8.	Hangal	-	Akkialur Gondi Channapura Gudagudi Mudur	Cotton	• Leaf reddening, flower & square dropping	Soil testing and Nutrient management	2005
9.				Maize	• Maize-Zinc deficiency, Unscientific fertilizer application	Soil testing and Nutrient management	2005
10.				Paddy	• Lack of blast resistant varieties • Shortage of labour • Drudgery	• Introduction of Siri-1253 variety of paddy • Mechanized transplanting • Weed management through Cono weeder	
11.				Fodder	Scarcity of fodder	Establishment of fodder bank (Fodder sorghum COFS-29)	
12.				Livestock	• Increased post calving period • Decreased conception rate	Supplementation of by-pass FAT in post calving dairy cows	
13.				Envirofit chula	Drudgery	Fuel efficiency & drudgery reduction	
14.	Shiggaon	-	Gotagodi	Little millet	• Low yield • Local varieties	Popularization of Sukshema variety of little millet	
15.	Savanur	-	Chiknalli Motalli Allipura Nandihalli	Maize	Low yield due to unscientific fertilizer application	Soil test based nutrient management in maize	2011
16.				Soybean	• Lack of awareness on improved varieties • Micro nutrient deficiency	Integrated crop management in soybean DSb-21	
17.				Sunflower	• Lack of awareness on new hybrids • Micro nutrient deficiency	Integrated crop management in sunflower hybrid KBSH-53	
18.				Cotton	Mirid bug, Shoot weevil, early sucking pests	Management of sucking pests in cotton	2011

S. No.	Taluk/ block	Name of cluster villages		Major crops & enterprises	Major problems identified	Identified thrust areas based on problems	If existing from which year
		Existing	New				
19.	Ranebennur	-	Benekanakon da Ukkunda Joisarahalalahalli Sunkalbidari	Onion	Purple leaf blotch	Management of purple leaf blotch disease	2010
20.				Paddy	• Scarcity of water	Aerobic rice cultivation	
21.				Groundnut	• Groundnut-Foliar disease	Integrated disease management	2010
22.				Bengalgarm	• Wilt	Integrated disease management	2010
23.				Foxtail millet	• Low yield • Local varieties	Popularization of HMT-100-1 variety of foxtail millet	
24.				Onion	• Purple leaf blotch	Management of purple leaf blotch disease	2010
25.				Chrysanthemum	Low yield	Integrated crop management Chrysanthemum	
26.				Aster	• Use of local varieties	Popularization of high yielding variety Kamini	
27.				Poultry	Reduced body weight gain, reduced FCR and reduced protein intake with crushed or whole grains	Azolla as a feed supplement to back yard poultry	
28.				Post harvest	• Spoilage of vegetables and fruits during storage	Use of energy cool chamber for fruit and vegetable storage	
29.				Hirekerur	-	Hire Anaji Rattihalli	Bengal gram
30.	Maize	• Groundnut- Collar rot	Drudgery reduction				
31.	Cotton	• Drudgery involved in agricultural activities	Popularization of groundnut variety DH-86				
32.	Groundnut	• Lack of awareness on improved varieties	Integrated crop management in sunflower hybrid KBSH-53				
33.	Sunflower	• Lack of awareness on new hybrids • Micro nutrient deficiency	Assessment of azolla feed in broiler farming				
34.	Azolla	• High cost of feeding • Poor quality meat	Management of ruminal acidosis in dairy animals using ruminal buffer				
35.	Haveri	-	Agadi Devihosur Aladakatti Yattinalli	Live stock	Low roughage intake and high concentrate feeding leading to acidosis in dairy animals	Groundnut striper	
36.				Drudgery	Labour and time involved in shelling of groundnut	Assessment of stay green type of maize hybrid	
37.				Maize	Shortage of fodder due to shift in cropping pattern	Popularization of groundnut variety GPBD-5	
38.				Groundnut	• Lack of awareness on improved varieties	Integrated crop management of redgram var. TS-3R	
39.				Redgram	Lack awareness on new varieties	Management of major foliar diseases	2009
40.				Banana	• Leaf spot/ Sigatoka incidence	Assessment of bioagents in chilli	2010
41.				Chilli	Root disease	TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers	
41.	Poultry	• High Morbidity & mortality rate	Groundnut striper				
41.	Drudgery	Labour and time involved in shelling of groundnut					

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	Prodn techy inputs
Chilli	Haveri (Devihosur, Aladakatti)	Root disease	Assessment of bioagents in chilli	√	-	-	√	√	-
Drudgery	Hangal (Akkialur cluster)	Fuel efficiency & drudgery reduction	Assessment of Fuel efficient eco friendly chulas	√	-	-	√	√	-
Maize	Savanur (Allipura cluster)	Low yield due to unscientific fertilizer application	Soil test based nutrient management in maize	-	-	√	√	√	-
Maize	Haveri (Aladakatti)	Shortage of fodder due to shift in cropping pattern	Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose			√	√	√	-
Little millet	Shiggaon (Gotagodi cluster)	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of Sukshema variety of little millet	-	-	√	√	√	-
Foxtail millet	Ranebennur (Sunakalbidri cluster)	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of HMT-100-1 variety of foxtail millet	-	-	√	√	√	-
Paddy	Hangal (Akkialur cluster)	<ul style="list-style-type: none"> • Lack of blast resistant varieties • Mechanization is not followed. • Shortage of labour • Drudgery 	Introduction of Siri-1253 through mechanized cultivation in Paddy	-	-	√	√	√	-
Paddy	Ranebennur (Sunakal bidari cluster)	<ul style="list-style-type: none"> • Scarcity of water 	Aerobic rice cultivation	-	-	√	√	√	-
Groundnut (<i>Kharif</i>)	Haveri (Aladakatte cluster)	<ul style="list-style-type: none"> • Lack of awareness on improved varieties • Drudgery reduction • Scarcity of labour & time consuming 	<ul style="list-style-type: none"> • Popularization of groundnut variety GPBD-5and • Groundnut stripper • Seed production. 	-	-	√	√	√	√
Groundnut (<i>Rabi</i>)	Hirekerur (Rattihalli cluster)	<ul style="list-style-type: none"> • Lack of awareness on improved varieties • Drudgery reduction • Scarcity of labour & time consuming 	<ul style="list-style-type: none"> • Popularization of groundnut variety DH-86and • Groundnut stripper • Seed production. 	-	-	√	√	√	√
Soybean	Savanur (Allipura cluster)	<ul style="list-style-type: none"> • Lack of awareness on improved varieties 	<ul style="list-style-type: none"> • Introduction of soybean variety DSb-21and seed production. • Seed production. 	-	-	√	√	√	√

Crop/ enterprise	Taluk/ block	Prioritized problems	Technological solution	Interventions proposed (please tick)					
				Technology Assessment	Technology Refinement	FLD	Training	Extension programmes	Prodn techy inputs
Sunflower (Rabi)	Hirekerur (Rattihalli cluster)	<ul style="list-style-type: none"> Lack of awareness on new hybrids Micro nutrient deficiency 	<ul style="list-style-type: none"> Integrated crop management in sunflower hybrid 	-	-	√	√	√	-
Redgram	Haveri (Aladakatte cluster)	Lack awareness on new varieties	<ul style="list-style-type: none"> Introduction of redgram var. TS-3R Transplanting. Seed production. 	-	-	√	√	√	√
Greengram	Byadgi (Shadambi cluster)	Nutrient deficiency, Spingid & Apion weevil, powdery mildew and leaf spot	<ul style="list-style-type: none"> Integrated crop management of greengram 	-	-	√	√	√	-
Bengalgram	Byadgi (Shadambi cluster)	Lack of awareness on improved variety	<ul style="list-style-type: none"> Introduction of Bengalgram var. BGD-103 Seed production. 	-	-	√	√	√	√
Cotton	Savanur (Allipura cluster)	Mirid bug, Shoot weevil, early sucking pests	Management of sucking pests in cotton	-	-	√	√	√	-
Banana	Byadgi (Shadambi cluster)	Low yield due to reduced bunch size and stunted growth; Leaf spot	Popularization of Banana special and Management of leaf spot disease in Banana	-	-	√	√	√	-
Onion	Ranebennur (Sunakalbidri cluster)	Purple leaf blotch	Management of purple leaf blotch disease	-	-	√	√	√	-
Tomato	Byadgi (Shadambi cluster)	Use of low yielding varieties	Introduction of DMT-2	-	-	√	√	√	-
Fodder	Hangal (Akkialur cluster)	Scarcity of fodder	Popularization of fodder varieties	-	-	√	√	√	-
Livestock	Haveri (Aladakatte cluster)	<ul style="list-style-type: none"> High Morbidity & mortality rate 	TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers	-	-	√	√	√	-
Livestock	Hangal (Akkialur cluster)	<ul style="list-style-type: none"> Increased post calving period Decreased conception rate 	Supplementation of by-pass FAT in post calving dairy cows	-	-	√	√	√	-

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	Chilli	Root disease	Assessment of bioagents in chilli	Farmer's practice : COC – 0.3%	-	10	Carbendazim : 5 kg Neem cake : 5 kg Trichoderma : 10 kg Pseudomonas :10 kg	15500	S.A. Ashtaputre G.R. Rajakumar
				Technology Option 1 : Carbendazim-0.2%	UAS Dharwad				
				Technology Option 2 : Soil application of neem cake @ 2.5 q/ha. Two-three times drenching of Trichoderma @ 10g/l + Pseudomonas @ 10g/l soon after the incidence of disease.	UHS Bagalakote				
2	Drudgery	Fuel efficiency & drudgery reduction	Assessment of Fuel efficient eco friendly chulas	Farmer's practice : Traditional	-	5	Envirofit Chula Selco chula Sampada Gasifier Stove	20000	Geeta S.Tamgale T.M. Soumya
				Technology Option 1 : Envirofit Chula	Colarado University, USA				
				Technology Option 2 : Selco Chula	Selco, Bengaluru				
				Technology Option 3 : Sampada Gasifier stove	Samuchit Enviro Tech Pvt Ltd, Pune				
Total								35500	

B. Technology Refinement – Nil

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	Low yield due to unscientific fertilizer application	Soil test based nutrient management in maize	UAS Dharwad	25	10	Soil test : 25 samples Micronutrients based on soil test	17500	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri
2	Maize	Shortage of fodder due to shift in cropping pattern	Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose	UAS Bangalore	12	05	Seeds : 72 kg	6480	T.M. Soumya S.A. Ashtaputre
3	Little millet	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of Sukshema variety of little millet	UAS Dharwad	25	10	Seeds : 125 kg	3000	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
4	Foxtail millet	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of HMT-100-1 variety of foxtail millet	UAS Dharwad	25	10	Seeds : 71 kg <i>Azospirillum</i> : 5 kg	2070	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
5	Paddy	<ul style="list-style-type: none"> • Scarcity of water 	Aerobic rice cultivation	UAS Bangalore	05	02	Seeds : 30 kg	1000	T.M. Soumya S.A. Ashtaputre
6	Paddy	<ul style="list-style-type: none"> • Lack of blast resistant varieties • Mechanization is not followed. • Shortage of labour • Drudgery 	<ul style="list-style-type: none"> • Introduction of Siri-1253 through mechanized cultivation in Paddy 	UAS Dharwad	05	02	Seeds :250 kg Land preparation Dapog method of seedling preparation Planting and Harvesting (Hire charges) Cono weeder : 05	75000	T.M. Soumya D.S.M. Gowda Geeta S. Tamgale
B	OILSEEDS								
1	Groundnut (<i>Kharif</i>)	<ul style="list-style-type: none"> • Lack of awareness on improved varieties • Drudgery reduction • Scarcity of labour & time consuming 	<ul style="list-style-type: none"> • Popularization of groundnut variety GPBD-5and • Groundnut stripper • Seed production. 	UAS Dharwad	25	10	Pods : 20 q Groundnut stripper-01	102000	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
2	Groundnut (<i>Rabi</i>)	<ul style="list-style-type: none"> • Lack of awareness on improved varieties • Drudgery reduction • Scarcity of labour & time consuming 	<ul style="list-style-type: none"> • Popularization of groundnut variety DH-86and Groundnut stripper • Seed production. 	UAS Dharwad	12	05	Pods : 10 q Groundnut stripper-01	52000	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale

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
3	Soybean	• Lack of awareness on improved varieties	Introduction of soybean variety DSb-21 and seed production. Seed production.	UAS Dharwad	25	10	Seeds : 750 kg	26250	T.M. Soumya Geeta S. Tamgale
4	Sunflower (Rabi)	• Lack of awareness on new hybrids • Micro nutrient deficiency	• Integrated crop management in sunflower hybrid	UAS Bangalore	12	05	<i>Azospirillum</i> : 2.5 kg ZnSO ₄ : 50 kg Gypsum : 500 kg Boron : 6.25kg	5000	S.A. Ashtaputre D.S.M. Gowda
C	PULSES								
1	Redgram	Lack awareness on new varieties	• Introduction of redgram var. TS-3R • Transplanting. • Seed production.	UAS Dharwad	25	10	Seeds : 125 kg	10000	S.A. Ashtaputre Geeta S. Tamgale
2	Greengram	Nutrient deficiency, Spingid & Apion weevil, powdery mildew and leaf spot	• Integrated crop management of greengram	UAS Dharwad	12	05	<i>Rhizobium</i> – 500 g PSB – 1.25 kg <i>Trichoderma</i> – 250 g Quinolphos – 2 ℓ λ Cyhalothrin – 1 ℓ	20500	T.M. Soumya Geeta S. Tamgale
3	Bengalgram	Lack of awareness on improved variety	• Introduction of Bengalgram var. BGD-103 • Seed production.	UAS Dharwad	12	05	Seeds : 375 kg	14000	S.A. Ashtaputre G.R. Rajakumar
D	COTTON								
1	Cotton	Mirid bug, Shoot weevil, early sucking pests	Management of sucking pests in cotton	UAS Dharwad	12	05	Neem based pesticides: 3 ℓ Monocrotophos : 1.5 ℓ Hostothion : 1.5 ℓ Imidacloprid : 0.4 ℓ Acetameprid : 250 g	20350	S.A. Ashtaputre G.R. Rajakumar
F	HORTICULTURAL CROPS								
1	Banana	Low yield due to reduced bunch size and stunted growth; Leaf spot	Popularization of Banana special and Management of leaf spot disease in Banana	IIHR, Bangalore and KVK, Davanagere	10	04	Banana special : 100 kg Adjuvent : 1 ℓ Hexaconazole : 6 ℓ <i>Pseudomonas</i> : 5 kg <i>Bacillus</i> : 5 kg	36500	S.A. Ashtaputre G.R. Rajakumar
2	Onion	Purple leaf blotch	Management of purple leaf blotch disease	UAS Dharwad	12	05	Difenaconazole : 2.5 ℓ	7500	S.A. Ashtaputre G.R. Rajakumar
3	Tomato	Use of low yielding varieties	Introduction of DMT-2	UAS Dharwad	05	02	Seeds : 0.25 kg	5000	S.A. Ashtaputre G.R. Rajakumar

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
G	LIVESTOCK/ FISHEIRES								
1	Fodder	Scarcity of fodder	Popularization of fodder varieties	UAS Dharwad	20	04	Seeds : 20 kg Co-3 root slips: 10000 No. Cow pea : 20 kg Lucerne :3 kg	12500	S.Y. Mukartal T.M. Soumya
2	Livestock	• High Morbidity & mortality rate	TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers	TANUVAS Chennai	02	1000 birds	Oral pellet vaccine : 1 pellet /bird	5000	S.Y. Mukartal
3	Livestock	• Increased post calving period • Decreased conception rate	Supplementation of by-pass FAT in post calving dairy cows	NIANP Bangalore	05	-	Feeding dry fodder + Green fodder + Concentrate + Mineral mixture 50 gm/day/cow + By-pass fat 100 gm/day/cow for 120 days	15000	S.Y. Mukartal
							Total	436650	

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.	Chilli	Root disease	Assessment of bio agent in Chilli	Management of Root disease in chilli	02	S.A. Ashtaputre
2.	Drudgery	Fuel efficiency & drudgery reduction	Assessment of Fuel efficient eco friendly chulas	Eco friendly chulas for cooking efficacy	02	Geeta S. Tamgale
3.	Maize	Low yield due to unscientific fertilizer application	Soil test based nutrient management in maize	Importance of soil testing	04	G.R. Rajakumar
4.	Maize			Soil fertility management	04	G.R. Rajakumar
5.	Maize	Shortage of fodder due to shift in cropping pattern	Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose	Maize crop disease management	03	S.A. Ashtaputre
6.	Maize	Shortage of fodder due to shift in cropping pattern	Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose	Hybrid maize cultivation techniques	02	T M Soumya
7.	Paddy	Scarcity of water	Aerobic rice cultivation	<ul style="list-style-type: none"> • Agro techniques of aerobic rice • Traditional v/s aerobic method of paddy cultivation 	04	T M Soumya
8.	Paddy	Lack of blight resistant varieties Shortage of labour Drudgery	Introduction of Siri-1253 variety of paddy Mechanized transplanting Weed management through Cono weeder	Recent advances in paddy cultivation	01	T M Soumya
9.				Mechanized paddy cultivation	01	T M Soumya
10.				Integrated weed management in Paddy	01	T M Soumya
11.	Little millet	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of Sukshema variety of little millet	Agronomic practices of little millet production	01	T M Soumya
12.	Foxtail millet	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of HMT-100-1 variety of foxtail millet	Agronomic practices of Foxtail millet production	01	T M Soumya
13.	Groundnut	Lack of awareness on improved varieties	<ul style="list-style-type: none"> • Popularization of groundnut variety GPBD-5 and Groundnut stripper • Seed production. 	Production technologies in groundnut	03	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
14.	Groundnut	<ul style="list-style-type: none"> • Lack of awareness on improved varieties 	<ul style="list-style-type: none"> • Popularization of groundnut variety DH-86 and Groundnut stripper • Seed production. 	Recent advances in groundnut cultivation	01	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
15.	Soybean	<ul style="list-style-type: none"> • Lack of awareness on improved varieties • Micro nutrient deficiency 	Introduction of soybean variety DSb-21	Improved agronomic practices of soybean cultivation	01	T M Soumya

Sl. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement/FLD)	Training Course Title	No. of Courses	Names of the team members involved
16.	Sunflower	<ul style="list-style-type: none"> Lack of awareness on new hybrids Micro nutrient deficiency 	Integrated crop management in sunflower hybrid	Sunflower production technology	01	T M Soumya
17.				Soil fertility and nutrient management	01	G.R. Rajakumar
18.	Redgram	Lack awareness on new varieties	Introduction of redgram var. TS-3R	Integrated crop management in redgram	01	T M Soumya
19.	Greengram	Nutrient deficiency, Spingid & Apion weevil, powdery mildew and leaf spot	Integrated crop management of greengram	Management of powdery mildew in green gram	02	S.A. Ashtaputre
20.	Bengalgram	Lack of awareness on improved variety	Integrated crop management of bengalgram var. BGD-103	Integrated crop management in Bengal gram	02	T M Soumya
21.	Cotton	Mirid bug, Shoot weevil, early sucking pests	Management of sucking pests in cotton	<ul style="list-style-type: none"> Importance of soil testing Soil fertility management IPM in cotton Integrated crop management in cotton 	10	S.A. Ashtaputre G.R. Rajakumar
22.	Banana	Low yield due to reduced bunch size and stunted growth; Leaf spot	Popularization of Banana special and Management of leaf spot disease in Banana	Nutrient Management & disease management	04	S.A. Ashtaputre G.R. Rajakumar
23.	Onion	Purple leaf blotch	Management of purple leaf blotch disease	Onion purple blotch disease management	03	S.A. Ashtaputre G.R. Rajakumar
24.	Tomato	Use of low yielding varieties	Introduction of DMT-2	Disease management in vegetable crops	02	S.A. Ashtaputre G.R. Rajakumar
25.	Fodder	Scarcity of fodder	Popularization of fodder varieties	Importance of green fodder in livestock feed	04	S Y Mukartal
26.				Agro techniques of fodder cultivation	02	T M Soumya
27.	Livestock	<ul style="list-style-type: none"> High Morbidity & mortality rate 	TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers	Control of ranikhet disease in broilers	02	S.Y. Mukartal
28.	Livestock	<ul style="list-style-type: none"> Increased post calving period Decreased conception rate 	Supplementation of by-pass FAT in post calving dairy cows	Supplementation of by-pass FAT in post calving dairy cows	02	S.Y. Mukartal
29.	Drudgery	Scarcity of labour & time consuming	-	Use of groundnut stripper	05	Geeta S. Tamgale T.M. Soumya
30.	Post harvest	Spoilage of vegetables and fruits during storage	-	Use of energy cool chamber for fruit and vegetable storage	03	Geeta S. Tamgale
31.	Livestock	Low roughage intake and high concentrate feeding leading to acidosis in dairy animals	-	Management of ruminal acidosis in dairy animals using ruminal buffer	02	S Y Mukartal
32.	Poultry	Reduced body weight gain, reduced FCR and reduced protein intake with crushed or whole grains	-	Production of azolla and its use in livestock	02	S Y Mukartal

ii) Rural Youth

S. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/ Refinement / FLD)	Training Course Title	No. of Courses	Names of the team members involved
1.	Chilli	Root disease	Chilli root disease management	Disease management in chilli	02	S.A.Ashtaputre
2.	Drudgery	Fuel efficiency & drudgery reduction	Assessment of Fuel efficient eco friendly chulas	Eco friendly chulas for cooking efficacy	02	Geeta S. Tamgale
3.	Maize	Unscientific fertilizer application	Soil test nutrient management in Maize	Importance of soil testing	01	G.R. Rajakumar
4.	Maize	Shortage of fodder due to shift in cropping pattern	Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose	Maize crop disease management	03	S.A. Ashtaputre
5.	Little millet	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of Sukshema variety of little millet	Importance of minor millet production	01	T M Soumya
6.	Paddy	Scarcity of water	Aerobic rice cultivation	<ul style="list-style-type: none"> • Agro techniques of aerobic rice • Traditional v/s aerobic method of paddy cultivation 	04	T M Soumya
7.	Paddy	Drudgery	Weed management through Cono weeder	Integrated weed management in cereals	01	T M Soumya
8.	Groundnut	Lack of awareness on improved varieties	Popularization of groundnut variety GPBD-5	Soil borne disease management in groundnut	03	S.A.Ashtaputre
9.	Bengalgram	Wilt disease	Introduction of Bengal gram variety BJD-103	Root disease management in Bengalgram	03	S.A.Ashtaputre
10.	Cotton	Unscientific fertilizer application & sucking pest	Management of sucking pest in cotton	Importance of soil testing	01	G.R. Rajakumar
11.	Cotton	Unscientific fertilizer application & sucking pest	Management of sucking pest in cotton	Management of pest & diseases in cotton	01	S.A.Ashtaputre
12.	Banana	Unscientific fertilizer application	Popularization of banana special & leaf spot disease management	Importance of soil testing	01	G.R. Rajakumar
13.	Banana	Unscientific fertilizer application & disease	Popularization of banana special & leaf spot disease management	Management of major diseases in banana	01	S.A.Ashtaputre
14.	Drudgery reduction	Labour and time involved in harvesting of groundnut	<ul style="list-style-type: none"> • Popularization of groundnut variety GPBD-5, DH-86 and Groundnut stripper • Seed production. 	Use of groundnut stripper	02	Geeta S. Tamgale
15.	Livestock	High cost of feeding Poor quality meat	-	Balanced feed formulation	02	S Y Mukartal
16.	Post harvest	Spoilage of vegetables and fruits during storage	-	Use of energy cool chamber for fruit and vegetable storage	03	Geeta S. Tamgale

iii) Extension Personnel

S. No.	Crop / Enterprise	Major problem	Linked field intervention (Assessment/Refinement/FLD)	Training Course Title	No. of Courses	Names of the team members involved
1.	Chilli	Major disease of chilli	Chilli root disease management	Disease management in chilli	02	S.A.Ashtaputre
2.	Maize	Low yield due to unscientific fertilizer application	Soil test based nutrient management in maize	Agro techniques of cereal crop production	01	T.M. Soumya
3.	Maize	Unscientific fertilizer application	Soil test based nutrient management in maize	<ul style="list-style-type: none"> • Importance of soil testing • Soil fertility management 	01	G.R. Rajakumar
4.	Paddy	Scarcity of water	Aerobic rice cultivation	Scientific water management in agriculture	01	T.M. Soumya
5.	Paddy	Lack of blight resistant varieties Shortage of labour Drudgery	Introduction of Siri-1253 variety of paddy Mechanized transplanting Weed management through Cono weeder	Recent advances in paddy cultivation	01	T M Soumya
6.				Mechanized paddy cultivation	01	T M Soumya
7.				Integrated weed management in Paddy	01	T M Soumya
8.	Groundnut	Foliar diseases	Popularization of groundnut variety GPBD-5	<ul style="list-style-type: none"> • IDM in groundnut 	03	S.A.Ashtaputre
9.	Drudgery reduction	Labour and time involved in harvesting of groundnut	<ul style="list-style-type: none"> • Popularization of groundnut variety GPBD-5, DH-86 and Groundnut stripper • Seed production. 	Use of groundnut stripper	02	Geeta S. Tamgale
10.	Pulses	Major diseases	Integrated crop management	<ul style="list-style-type: none"> • IDM in different pulse crops 	02	S.A.Ashtaputre
11.	Cotton	Unscientific fertilizer application	Management of sucking pest in cotton	<ul style="list-style-type: none"> • Importance of soil testing • Soil fertility management 	01	G.R. Rajakumar
12.	Cotton	Unscientific fertilizer application	Management of sucking pest in cotton	<ul style="list-style-type: none"> • Pest and disease management in Cotton 	02	S.A.Ashtaputre
13.	Banana	Unscientific fertilizer application	Popularization of banana specials	<ul style="list-style-type: none"> • Importance of soil testing • Soil fertility management 	01	G.R. Rajakumar
14.	Banana	Unscientific fertilizer application & disease	Popularization of banana special & leaf spot disease management	Management of major diseases in banana	01	S.A.Ashtaputre
15.	Onion	Purple leaf blotch	Management of purple leaf blotch	Foliar disease management	02	S.A.Ashtaputre
16.	Fodder	Scarcity of fodder	Popularization of fodder varieties	Agronomic practices of fodder cultivation	01	T.M. Soumya
17.	Post harvest	Spoilage of vegetables and fruits during storage	-	Use of energy cool chamber for fruit and vegetable storage	03	Geeta S. Tamgale

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
<i>Trichoderma</i>	<i>Trichoderma</i> production	02 (7 days each)	Youth and SHGs	S. A. Ashtaputre G. R. Rajakumar T. M. Soumya M. A. Gaddanakeri
Bee keeping	Bee keeping	02 (7 days each)	Youth	S. T. Prabhu D. S. M. Gowda
Compost production	<ul style="list-style-type: none"> • Importance of compost in soil fertility management • Methods of compost preparation and essentials 	02 (7 days each)	SHGs	G. R. Rajakumar T. M. Soumya M. A. Gaddanakeri
Compost production	Vermicomposting	01 (7 days)	SHGs	T. M. Soumya M. A. Gaddanakeri
Seed production	Advances in seed production	01 (7 days)	Youth and SHGs	T. M. Soumya S. A. Ashtaputre G. R. Rajakumar
Bio-fertilizer production	Importance of Bio-fertilizer in crop nutrition and soil fertility	02 (7 days each)	SHGs and women	G. R. Rajakumar S. A. Ashtaputre T. M. Soumya M. A. Gaddanakeri
Livestock	Clean milk production and value addition	01 (7 days)	SHGs	S. Y. Mukartal T. M. Soumya Geeta S. Tamgale
Livestock	Importance of artificial insemination	01 (7 days)	SHGs	S. Y. Mukartal
IG activity	Tailoring	02 (10 days each)	SHGs	Geeta S. Tamgale
IG activity	Embroidery	03 (5 days each)	SHGs	Geeta S. Tamgale
Watershed	Integrated watershed management	01 (7 days)	SHGs	D. S. M. Gowda T. M. Soumya G. R. Rajakumar S. Y. Mukartal

v) Sponsored trainings

Crop/ Enterprise	Sponsoring Organization	Training course title	No. of Courses	Names of the team members involved
Vegetables	KSDH, Haveri	Vegetable disease management	03	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
Groundnut	KSDA, Haveri	Major foliar disease management	02	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
Pulses	KSDA, Haveri	Agro techniques to increase pulse productivity	01	T.M. Soumya S.A.Ashtaputre G.R. Rajakumar
Marketing of organic produce	NABARD, Haveri	Soil testing for organic status	02	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri
Livestock	AH & VS, KMF, Haveri	Latest technological development in dairying	02	S Y Mukartal T.M. Soumya
Livestock	AH & VS, Haveri	Alternative poultry farming	02	S Y Mukartal

E. Extension programmes

Month	Extension programme	Linked field intervention	Expected category of participants	Names of the team members involved
April	<ul style="list-style-type: none"> • Kharif campaign for major crop diseases • Soil test campaign • Method demonstration 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar
	Feeding in dairy animals	Training	Farmers / Farm women	S.Y. Mukartal
May	<ul style="list-style-type: none"> • <i>Kharif</i> campaign for major crop diseases • Soil test campaign • Method demonstration for seed treatment to control seed borne diseases 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar
	Method demonstration on seed treatment with bio fertilizer for pulses and oil seeds	FLD	Farmers / Farm women/ Rural youth	T.M. Soumya
	Management of livestock in summer	Training	Farmers / Farm women	S.Y. Mukartal

Month	Extension programme	Linked field intervention	Expected category of participants	Names of the team members involved
June	<ul style="list-style-type: none"> • Kharif campaign • Method demonstration for seed treatment to control seed borne diseases 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
	Method demonstration on dapog method of paddy nursery preparation	FLD	Farmers / Farm women/ Rural youth	T.M. Soumya
	Establishment of fodder bank	FLD	Farmers / Farm women	S.Y. Mukartal
July	<ul style="list-style-type: none"> • Method demonstration in soil test • Farmers group meet for IDM technology in major crops • Field visits 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	G.R. Rajakumar S.A.Ashtaputre T.M. Soumya
	World rabies day	Special days	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal S.A.Ashtaputre T.M. Soumya Geeta Tamgale G.R. Rajakumar
	Method demonstration on transplanting through transplanter	FLD	Farmers / Farm women/ Rural youth / Extension personnel	T.M. Soumya
	Method demonstration on use of Cono weeder	FLD	Farmers / Farm women/ Rural youth / Extension personnel	T.M. Soumya
	Prevention and control of diseases in monsoon season in dairy animals	Training	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
August	Field day in pulses and field visits, farmers tour	FLD	Farmers / Farm women/ Rural youth / Extension personnel	T.M. Soumya G.R. Rajakumar S.A.Ashtaputre
	Method demonstration on nipping in cotton	FLD	Farmers / Farm women/ Rural youth / Extension personnel	T.M. Soumya
	Method demonstration on nipping in red gram	FLD	Farmers / Farm women/ Rural youth / Extension personnel	T.M. Soumya
	Method demonstration on bengal gram	FLD	Farmers / Farm women/ Rural youth / Extension personnel	T.M. Soumya
	Advanced techniques in broiler farming	OFT	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
	Breast feeding week	Special days	Farm women	Geeta S Tamgale
September	<ul style="list-style-type: none"> • Method demonstration for seed treatment to control seed borne diseases • Field visits • Field days on onion, maize and sunflower FLD 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A. Ashtaputre G.R. Rajakumar T.M. Soumya
	• Parthenium awareness week	Special week	Farmers / Farm women/ Rural youth / Extension personnel	S.A. Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S Tamgale. G.R. Rajakumar
	Nutritional week	Special days	Farmers / Farm women/ Rural youth / Extension personnel	
	Krishi mela	Exhibition	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
	Field day on groundnut	FLD		
	Cross bred sheep rearing	Training	Farmers / Farm women/ Rural youth / Extension personnel	
	Demonstration of Groundnut stripper	Demonstration	Farmers / Farm women/ Rural youth / Extension personnel	Geeta S Tamgale T.M. Soumya

Month	Extension programme	Linked field intervention	Expected category of participants	Names of the team members involved
October	Field day in banana and maize	FLD	Farmers / Farm women/ Rural youth / Extension personnel	G.R. Rajakumar S.A.Ashtaputre T.M. Soumya
	World food day	Special days	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S Tamgale. G.R. Rajakumar
	International rural women's day	Special days	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S Tamgale. G.R. Rajakumar
	Advanced techniques in goat rearing	Training	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
November	<ul style="list-style-type: none"> Field visits Seminar on Marketing of organic produce 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
	Demonstration of Groundnut decorticator	Demonstration	Farmers / Farm women/ Rural youth / Extension personnel	Geeta S Tamgale T.M. Soumya
	Cost effective milk production	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
December	<ul style="list-style-type: none"> Seminars on IDM in Rabi crops Field day in cotton 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
	Farmers day	Special day	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S Tamgale. G.R. Rajakumar
	Women in agriculture day	Special day	Farmers / Farm women/ Rural youth / Extension personnel	Geeta S Tamgale. G.R. Rajakumar
	FMD control measures in dairy farming	Training	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
January	Field day in bengal gram	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
	Control and prevention of mastitis in dairy animals	Training	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
February	<ul style="list-style-type: none"> Seminar on IDM in major crops Field day in banana 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
	Control and prevention of diseases in sheep	Training	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal

Month	Extension programme	Linked field intervention	Expected category of participants	Names of the team members involved
March	<ul style="list-style-type: none"> • Field visits and farmers meet • Field day in sunflower 	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre G.R. Rajakumar T.M. Soumya
	Use of azolla and enrichment of dry fodder	FLD	Farmers / Farm women/ Rural youth / Extension personnel	S.Y. Mukartal
	International womens day	Special days	Farmers / Farm women/ Rural youth / Extension personnel	S.A.Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S Tamgale G.R. Rajakumar

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	Recent advances in <ul style="list-style-type: none"> • Minor millets (Foxtail millet, little millet and finger millet) • Pulses (Red gram, green gram and black gram) • Integrated crop management of cotton • Fodder crops and their varieties 	1.4	T.M. Soumya S.A. Ashtaputre S.Y. Mukartal G.R. Rajakumar
	Silt monitoring station in micro watershed	480	D.S.M. Gowda G.R. Rajakumar
Demonstration Units	<ul style="list-style-type: none"> • Composting and vermin composting • Azolla units 	01 No. 02 Nos.	T.M. Soumya G.R. Rajakumar S.Y. Mukartal
Lab Analytical services	Soil test kit	1000	G.R. Rajakumar Hemanth Hegde, V.B. Kuligod M.A. Gaddanakeri
Technology Week	Demonstration on nipping in red gram and cotton	0.4 ha	T.M. Soumya
	Demonstration on transplanting technique in red gram and cotton	0.4 ha	

B. Technological Products

Category	Name of the product	Quantity (Qtl.)/ Number	Names of the team members involved
Seeds	Groundnut (GPBD-4 & GPBD-5)	500	D.S.M. Gowda T.M. Soumya
	Soybean	20	T.M. Soumya Geeta S Tamgale
	Redgram	20	S.A. Ashtaputre Geeta S Tamgale
	Bengal gram	10	S.A. Ashtaputre G.R. Rajakumar
	Green gram	05	D.S.M. Gowda T.M. Soumya Geeta S Tamgale
	Black gram	02	D.S.M. Gowda T.M. Soumya
	Little millet	10	D.S.M. Gowda T.M. Soumya
	Foxtail millet	05	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
	Finger millet	02	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
	Sunnhemp	05	G.R. Rajakumar S.A. Ashtaputre
	Maize (South African Tall)	30	D.S.M. Gowda T.M. Soumya
Planting materials	Sapota (DHS-1)	500	D.S.M. Gowda S.A. Ashtaputre G.R. Rajakumar
	Sapota (DHS-2)	1000	
	Sapota (Cricket ball)	300	
	Sapota (Kalipathi)	300	
	Guava (L-49)	300	
	Curry leaf (Suvasini)	2000	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
	Chakramuni	500	
	Tamarind (PKM)	500	
Fodder slips	10000	S.Y. Mukartal T.M. Soumya	

Category	Name of the product	Quantity (Qtl./ Number)	Names of the team members involved
Bio-products	<i>Trichoderma</i>	01	S.A. Ashtaputre G.R. Rajakumar M.A. Gaddanakeri
	<i>Azospirillum</i>	01	G.R. Rajakumar S.A. Ashtaputre M.A. Gaddanakeri
	Phosphate solubilizing bacteria (PSB)	01	
	<i>Rhizobium</i>	01	
Livestock strains	Cross bred Deoni x HF animals	05	S.Y. Mukartal

C. Technological Information

Category	Technological capsules / Number	Names of the team members involved
Technology backstopping to line departments		
Agriculture	<ul style="list-style-type: none"> • Crop production technology • New interventions in agriculture • Weather forecasting 	T.M. Soumya
	• Soil analysis : 02	G.R. Rajakumar M.A. Gaddanakeri
Horticulture	• Soil analysis :02	G.R. Rajakumar M.A. Gaddanakeri
Animal husbandry	Fodder crop production technology	T.M. Soumya S.Y. Mukartal
Dept. of women and child development	Health and nutrition :04	Geeta S. Tamgale
Agricultural Engineering	Mechanized transplanting	D.S.M. Gouda T.M. Soumya
	Integrated watershed management	D.S.M. Gouda
Literature/publication		
Folders/Leaflets(1000 each)	14	D.S.M. Gouda S.A. Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S. Tamgale G.R. Rajakumar
Popular articles	30	G.R. Rajakumar M.A. Gaddanakeri V.B. Kuligod Hemanth Hegde
Soil testing kit booklet	1200	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri
Soil fertility management brochures	1000	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri
Electronic Media		
Radio talk	14	D.S.M. Gouda S.A. Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S. Tamgale G.R. Rajakumar
TV programmes	06	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri
Slides on Soil fertility management	01	S.A. Ashtaputre S.Y. Mukartal T.M. Soumya Geeta S. Tamgale G.R. Rajakumar K. N. Rekha
Slides on Soil fertility kit	01	
Slides on Crop nutrition	01	
Kisan Mobile Advisory Services (One KMAS/day/SMS)	312	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri
Information on centre/state sector schemes and service providers in the district.	KSDA- Bhoo-chetana	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri

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.	UAS Dharwad	Staff Research	Development of Soil Test Kit (Part-II & III)	15000	G.R. Rajakumar Kuligod V.B. M.A. Gaddanakeri Hemanth Hegde

10. Revolving Fund

A. Financial status

Particular	Opening balance as on 01.04.2011 (as on 09.06.2011) (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)
Training	1.46	0.80	0.70	1.34
ICAR	1.50	4.55	4.82	1.77
	(18.11.2011)	18.11.2011 to 31.1.2012	18.11.2011 to 31.1.2012	18.11.2011 to 31.1.2012
Dairy	4.77	1.78	0.59	4.6

Note : Recently as per UASD, Order the dairy transferred from ARS to KVK and completely renovated

B. Plan of activities

S.No.	Proposed activities	Expected output	Anticipated income (Rs.)	Names of the team members involved
1.	Soil test kit	1000 kits	100000	G.R. Rajakumar, Kuligod V.B. M.A. Gaddanakeri, Hemanth Hegde

11. Activities of soil, water and plant testing laboratory

Type	No.of samples to be analyzed	Names of the team members involved
Soil	2000	G.R. Rajakumar M.A. Gaddanakeri
Water	1000	
Plant	100	
Others (Compost / Lime)	20	

12. E-linkage

S. No	Nature of activities	Likely period of completion	Remarks
01	Creation of web-site	Already created	www.kvkhaveri.org
02	Title of the technology module to be prepared	-	Required information
03	Creation and maintenance of relevant database system for KVK		
	• Training database	Already maintained	
	• Seeds & planting material	Already maintained	
	• Soil & water test	Already maintained	
	• FLD	Already maintained	
	• OFT	October 2012	
	• Extension activities	March 2013	
04	Online reporting system of KVK (OFT module)	June 2012	
05	Text & voice messages	We are sending the text messages (Netcore solutions, Mumbai) related to agriculture, weather and market to the farmers . Text messages - 7,520 farmers have been subscribed	

13. Activities planned under Rainwater Harvesting Scheme

S. No	Activities planned	Remarks if any
1	Establishment of fodder bank	
2	Establishment of cion bank for production of nursery	
3	Training on Rainwater Harvesting and its utilization	
4	Demonstration on micro catchment for Horticultural plants	

14. Innovative Farmer's Meet

Particulars	Details
Are you planning for conducting Farm Innovators meet in your district?	Yes
If Yes likely month of the meet	August
Brief action plan in this regard	<ul style="list-style-type: none"> ➤ Farmers –Innovative farmers interaction ➤ Innovative farmers – Scientist interaction ➤ Farmers – Innovative farmers - Scientist interaction ➤ Scientist – Extension functionaries – Innovative famers interaction ➤ Demonstration

15. Farmer's Field School planned : Production technology in groundnut

S. No	Priority	Particulars	Amount(Rs.)
1.	1.Agro-ecosystem analysis of groundnut production system 2.Management of pest and diseases. 3.Reduction in cost of production. 4.Establishment of supply chain system.	1. Critical inputs (seeds)	80000
		2. Refreshment during training programmes.	6000
		3. Farmer,s Field School kit	5000
		4. Field day expenditure.	2000
		5. Publishing materials.	2000
		6. Stationary and other expenditures.	2000
		Total(Rs)	25000

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	40.00	40.00	48.00
2	Traveling allowances	1.00	1.00	0.91
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	1.60	1.60	1.60
B	POL, repair of vehicles, tractor and equipments	1.30	1.30	0.75
C	Meals/refreshment for trainees	0.60	0.60	0.18
D	Training material	0.20	0.20	0.03
E	Frontline demonstration except oilseeds and pulses	2.50	2.50	2.30
F	On farm testing	1.00	1.00	0.90
G	Training of extension functionaries	0.15	0.15	0.00
H	Maintenance of buildings	0.20	0.20	0.19
I	Extension activities	0.15	0.15	0.00
J	Farmers field school	0.25	0.25	0.00
K	Establishment of Soil, Plant & Water Testing Laboratory	0.00	0.00	0.00
L	Library	0.05	0.05	0.01
TOTAL (A)		49.00	49.00	54.87
B. Non-Recurring Contingencies				
1	Works	0.00	0.00	0.00
2	Equipments including SWTL & Furniture	0.00	0.00	0.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	6.00	6.00	0.00
4	Library	0.00	0.00	0.00
TOTAL (B)		6.00	6.00	0.00
C. REVOLVING FUND		0.00	0.00	0.00
GRAND TOTAL (A+B+C)		55.00	55.00	54.87

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

S.No.	Particulars	BE 2012-13 proposed
A. Recurring Contingencies		
1	Pay & Allowances	70.00
2	Traveling allowances	2.00
3	Contingencies	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.50
B	POL, repair of vehicles, tractor and equipments	2.00
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	1.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	0.50
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	4.37
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	0.36
G	Training of extension functionaries	0.25
H	Maintenance of buildings	1.00
I	Soil, Plant & Water Testing Laboratory (Chemicals & accessories)	3.20
J	Library	0.25
TOTAL (A)		87.43
B. Non-Recurring Contingencies		
1	Works	20.00
2	Equipments including SWTL & Furniture	5.00
3	Vehicle (Four wheeler)	10.00
4	Live stock (Purchase of animals 10 Nos.)	4.00
5	Library (Purchase of assets like books & journals)	0.20
TOTAL (B)		39.2
C. REVOLVING FUND (To establish the Poultry Unit)		5.00
GRAND TOTAL (A+B+C)		131.63

Details of technological interventions-2012-13

B. 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	Chilli	Root disease	Assessment of bioagents in chilli	Farmer's practice : COC – 0.3%	-	10	Carbendazim : 5 kg Neem cake : 5 kg Trichoderma : 10 kg Pseudomonas :10 kg	15500	S.A. Ashtaputre G.R. Rajakumar
				Technology Option 1 : Carbendazim-0.2%	UAS Dharwad				
				Technology Option 2 : Soil application of neem cake @ 2.5 q/ha. Two-three times drenching of Trichoderma @ 10g/l + Pseudomonas @ 10g/l soon after the incidence of disease.	UHS Bagalakote				
2	Drudgery	Fuel efficiency & drudgery reduction	Assessment of Fuel efficient eco friendly chulas	Farmer's practice : Traditional	-	5	Envirofit Chula Selco chula Sampada Gasifier Stove	20000	Geeta S.Tamgale T.M. Soumya S.Y. Mukartal
				Technology Option 1 : Envirofit Chula	Colarado University, USA				
				Technology Option 2 : Selco Chula	Selco, Bengaluru				
				Technology Option 3 : Sampada Gasifier stove	Samuchit Enviro Tech Pvt Ltd, Pune				
Total								35500	

B. Technology Refinement – Nil

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	Low yield due to unscientific fertilizer application	Soil test based nutrient management in maize (Soil test based INM maize)	UAS Dharwad	25	10	Soil test : 25 samples Micronutrients based on soil test	17500	G.R. Rajakumar T.M. Soumya M.A. Gaddanakeri
2	Maize	Shortage of fodder due to shift in cropping pattern	Introduction of stay green type of maize hybrid Hema (NAH-1137) for dual purpose (Dual purpose stay green type maize hyb Hema(NAH-1137))	UAS Bangalore	12	05	Seeds : 72 kg	6480	T.M. Soumya S.A. Ashtaputre
3	Little millet	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of Sukshema variety of little millet (Sukshema variety of little millet)	UAS Dharwad	25	10	Seeds : 125 kg	3000	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
4	Foxtail millet	<ul style="list-style-type: none"> • Low yield • Local varieties 	Popularization of HMT-100-1 variety of foxtail millet (HMT-100-1 variety of foxtail millet)	UAS Dharwad	25	10	Seeds : 71 kg <i>Azospirillum</i> : 5 kg	2070	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
5	Paddy	<ul style="list-style-type: none"> • Scarcity of water 	Aerobic rice cultivation	UAS Bangalore	05	02	Seeds : 30 kg	1000	T.M. Soumya S.A. Ashtaputre
B OILSEEDS									
1	Groundnut (<i>Kharif</i>)	<ul style="list-style-type: none"> • Lack of awareness on improved varieties • Drudgery reduction • Scarcity of labour & time consuming 	<ul style="list-style-type: none"> • Popularization of groundnut variety GPBD-5 and • Groundnut stripper • Seed production. (seed production GPBD-5, stripper)	UAS Dharwad	25	10	Pods : 20 q Groundnut stripper-01	102000	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale
2	Groundnut (<i>Rabi</i>)	<ul style="list-style-type: none"> • Lack of awareness on improved varieties • Drudgery reduction • Scarcity of labour & time consuming 	<ul style="list-style-type: none"> • Popularization of groundnut variety DH-86 and Groundnut stripper • Seed production. (seed production DH-86, stripper,)	UAS Dharwad	05	02	Pods : 10 q Groundnut stripper-01	26000	D.S.M. Gowda T.M. Soumya Geeta S. Tamgale

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
3	Soybean	• Lack of awareness on improved varieties	Introduction of soybean variety DSb-21 and seed production. Seed production. (Seed production DSb-21)	UAS Dharwad	25	10	Seeds : 750 kg	15750	T.M. Soumya Geeta S. Tamgale
4	Sunflower (Rabi)	• Lack of awareness on new hybrids • Micro nutrient deficiency	• Integrated crop management in sunflower hybrid (ICM in sunflower hybrid)	UAS Bangalore	12	05	<i>Azospirillum</i> : 2.5 kg ZnSO ₄ : 50 kg Gypsum : 500 kg Boron : 6.25kg	5000	G.R. Rajakumar D.S.M. Gowda
C	PULSES								
1	Redgram	Lack awareness on new varieties	• Introduction of redgram var. TS-3R • Transplanting. • Seed production. (seed production TS-3R, Transplanting)	UAS Dharwad	25	10	Seeds : 125 kg	10000	G.R. Rajakumar S.A. Ashtaputre
2	Greengram	Nutrient deficiency, Spingid & Apion weevil, powdery mildew and leaf spot	• Integrated crop management of greengram	UAS Dharwad	12	05	<i>Rhizobium</i> – 500 g PSB – 1.25 kg <i>Trichoderma</i> – 250 g Quinolphos – 2 ℓ λ Cyhalothrin – 1 ℓ	20500	T.M. Soumya Geeta S. Tamgale
3	Bengalgram	Lack of awareness on improved variety	• Introduction of Bengalgram var. BGD-103 • Seed production. (Seed production of BGD-103)	UAS Dharwad	12	05	Seeds : 375 kg	14000	S.A. Ashtaputre G.R. Rajakumar
D	COTTON								
1	Cotton	Mirid bug, Shoot weevil, early sucking pests	Management of sucking pests in cotton (Management of sucking pests in cotton)	UAS Dharwad	12	05	Neem based pesticides: 3 ℓ Monocrotophos : 1.5 ℓ Hostothion : 1.5 ℓ Imidacloprid : 0.4 ℓ Acetameprid : 250 g	20350	S.A. Ashtaputre G.R. Rajakumar
F	HORTICULTURAL CROPS								
1	Banana	Low yield due to reduced bunch size and stunted growth; Leaf spot	Popularization of Banana special and Management of leaf spot disease in Banana (Banana special and leaf spot management)	IIHR, Bangalore and KVK, Davanagere			Banana special : 100 kg Adjuvent : 1 ℓ Hexaconazole : 6 ℓ <i>Pseudomonas</i> : 5 kg <i>Bacillus</i> : 5 kg	18250	S.A. Ashtaputre G.R. Rajakumar

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	Onion	Purple leaf blotch	Management of purple leaf blotch disease	UAS Dharwad	12	05	Difenaconazole : 2.5 l	7500	S.A. Ashtaputre G.R. Rajakumar
3	Tomato	Use of low yielding varieties	Introduction of DMT-2	UAS Dharwad	05	02	Seeds : 0.25 kg	5000	T.M. Soumya Geeta S. Tamgale D.S.M. Gowda
G LIVESTOCK/ FISHEIRES									
1	Fodder	Scarcity of fodder	Popularization of fodder varieties	UAS Dharwad	20	04	Seeds : 20 kg Co-3 root slips: 10000 No. Cow pea : 20 kg Lucerne :3 kg	12500	S.Y. Mukartal T.M. Soumya
2	Livestock	• High Morbidity & mortality rate	TANUVAS- Oral pellet vaccine to control ranikhet diseases in broilers (Oral pellet vaccine for ranikhet in broilers)	TANUVAS Chennai	02	1000 birds	Oral pellet vaccine : 1 pellet /bird	5000	S.Y. Mukartal
3	Livestock	• Increased post calving period • Decreased conception rate	Supplementation of by-pass FAT in post calving dairy cows (by-pass FAT in post calving dairy cows)	NIANP Bangalore	05	-	Feeding dry fodder + Green fodder + Concentrate + Mineral mixture 50 gm/day/cow + By-pass fat 100 gm/day/cow for 120 days	15000	S.Y. Mukartal
Total								306900	