

GENERAL INSTRUCTIONS
PART I - GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

KVK Address	Telephone		E mail	Web Address
	Office	Fax		
Krishi Vigyan Kendra, Regional Agricultural Research Station, P.O.Box No.18, BIJAPUR-586101	08352-230758	08352-230758	kvkbijapur@gmail.com	www.kvkbijapur.org

1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail	Web Address
	Office	Fax		
University of Agricultural Sciences, Krishi Nagar, Dharwad-05	0836-2447494	0836-2748199	deuasd@rediffmail.com	www.uasd.edu.in

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.S.Y.Wali Programme Co-ordinator KVK, Bijapur	08352 - 263283	9448495346	kvkbijapur@gmail.com

1.4. Year of sanction: 2004

1.5. Staff Position (as 31st March 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	M/F	Discipline	Highest Qualification (for PC, SMS and Prog. Asstt.)	Pay Scale	Basic pay	Date of joining KVK	P/T	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. S.Y.Wali	Programme Co-ordinator	M	Agronomy	Ph.D	37400-67000	52250	31.05.10	Per.	SC
2	SMS	Dr.S.S.Karabhantanal	Subject Matter Specialist	M	Ag.Entomology	Ph.D	15600-39100	31080	20.01.06	Per.	GM
3	SMS	Dr.S.M.Vastrad	Subject Matter Specialist	M	Pl.Pathology	M.Sc(Agri.)	15600-39100	27390	01.03.06	Per.	GM
4	SMS	Dr.Prema B. Patil	Subject Matter Specialist	F	Home Science	Ph.D	15600-39100	27400	22.06.07	Per.	GM
5	SMS	Dr. Sunilkumar Nooli	Subject Matter Specialist	M	Agronomy	M.Sc(Agri.)	15600-39100	22920	21.11.11	Per.	GM
6	SMS	Vacant	Subject Matter Specialist	-	Horticulture	-	-	-	-	-	-
7	SMS	Vacant	Subject Matter Specialist		Animal science	-					
8	Programme Assistant(Lab Tech.)/T-4	Vacant	Programme Assistant	-	Soil Science	-	-		-	-	-
9	Programme Assistant (Computer)/ T-4	Mr.S.C.Rathod	Programme Assistant	M	Computer Science	MCA, PGDCA	9300-38400	15670	16.12.08	Per.	SC
10	Programme Assistant/ Farm Manager	Mr.B.C.Kolhar	Programme Assistant	M	Farm Manager	M.Sc(Agri.)	9300-38400	15670	10.12.08	Per.	OBC
11	Assistant	Mr.S.E.Badiger	Assistant	M	Assistant	MA	20000-36300	25300	01.04.04	Per.	OBC
12	Jr. Stenographer	Mrs.A.S.Hiremath	Typist	F	Typist	B.Com	16000-29600	17650	05.10.09	Per.	GM
13	Driver	Mr.Yariswamy	LVD	M	Driver (Jeep)	7 th Pass	14550-26700	21600	23.05.05	Per.	SC
14	Driver	Mr.A.R.Mutaliksirdesai	Driver	M	Driver (Tractor)	PUC	11600-21000	12500	17.11.09	Per.	GM
15	Supporting staff	Mr.Prakash Rathod	Cook cum care taker	M	Cook-cum care taker	BA	10400-16400	11600	16.07.07	Per.	SC
16	Supporting staff	Smt. Shridevi K Goudennavar	Messenger	F	Messenger	BA	9600- 14550	9600	20.01.14	Per.	GM

1.6. Total land with KVK (in ha) : 20 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.1 ha
2.	Under Demonstration Units	-
3.	Under Crops	15 ha
4.	Orchard/Agro-forestry	02 ha
5.	Others	2.9 ha

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	April-2011	550	5500000	-	-	Completed
2	Rain Water harvesting system	ICAR	April -2008	3165 cum	860726	-	-	Constructed

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2003	3,24,238	6169 tractor hrs	Good
TOYOTA Qualis	2004	4,64,034	262545	Good
Hero Honda KA-25 EC-7517	2009	49,500	37200	Good
Hero Honda KA-25 EC-7527	2009	49,500	49355	Good

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Godrej copier	2001	80,234	Kept for Auction
Stabilizer	2001	6,000	Good
Over-head Projector	2001	23,000	Good
Kodak DC-3200 (Digital Camera)	2002	17,000	Good
Portable Generator 2000	2003	40,130	Good
Computer with accessories	2003	67,680	Good
2 KV on line Uninterrupted power supply system for 120 mins battery backup time	2003	52,300	Good
Mipro-MVA-101 portable public address system	2003	30,240	Good
Hakims Deflex	2003	10,115	Good
Handy image presenter (Flex Vision TFV-300)	2003	53,760	Good
Tvs msp 395xl classic 136, col,24 pin 300cp)	2003	12,800	Good
Hp Desk Jet A3 Size	2003	15999	Good
Hp office jet 4110, All in one	2003	9500	Good
LG CD writer	2003	2750	Good
Single Furrow reversible plough	2003	20,250	Good
Nine fine tiller with seeding attachment	2003	26,150	Good
Three in one leveler rangale and cultivator	2003	14,500	Good
pH Meter	2005	8,900	Good
Electrical conductivity Bridge	2005	9,790	Good
Flame Photometer	2005	32,040	Good
Visible spectro photo meter	2005	40,050	Good
Electronic automatic KEL Plus digestion system and Nitrogen distillation system	2005	1,42,844	Good
Shaking machine	2005	47,025	Good
Electronic weighing machine	2005	57,000	Good
Physical balance	2005	10,890	Good
Hot air oven	2005	16,471	Good
Hot plate	2005	2,912	Good
Grinder	2005	15,435	Good
Water distillation unit	2005	62,444	Good
Refrigerator	2005	12,285	Good
LCD with Computer	2006	96404	Good
Handy camera	2006	18450	Good
Laser guided land leveller	2011	3,89,000	Good
Generator (7.5 KVA)	2011	92,000	Good

1.8. Details SAC meeting conducted in 2013-14

Sl.No.	Date	No. of Participants	No. of absentees	Salient Recommendations	Action taken
1	23.07.2013	29	Nil	Establishment of fodder cafeteria, with cereals and pulses fodder species and distribution of planting materials to the interested farmers.	Will be established during ensuing <i>kharif</i> season
				List of case study of farmers for AIR programme.	Success stories and list of progressive farmers are being provided to AIR and other mass media regularly.
				Submission of proposal on custom hiring of improved implements	Proposal has been submitted to UAS, Dharwad.
				Establishment of kitchen garden besides KVK building and on farmer fields.	Five IFS demonstrations have been integrated with kitchen garden components.
				Procurement of bioagents from production unit of College & RARS for farmers.	The required bioagents for the conduct of FLDs are procured and distributed to the farmers from the production unit of AC, Bijapur .
				More technological information in Newsletter and circulation of news letter to SAC members, progressive farmers and line departments.	Technical data of all FLD's will be incorporated in ensuing news letter and will be circulated to all SAC members, progressive farmers and other line Depts.
				Purchase of inputs well in advance of the season for timely initiation of OFTs & FLDs.	In <i>Rabi</i> , 2013, OFTs & FLDs have been initiated on time and same will be continued in future.
				In all the activities, objectives should be mentioned clearly.	Objectives will be mentioned in all FLD's and OFTs.
				Yield and economics related parameters in FLDs should be analyzed.	It will be analyzed and presented in SAC meeting.
				Soil fertility status to be assessed before implementation of OFT & FLD.	For all nutrient management FLDs soil analysis is being done and will be presented in SAC meeting and ARM.
				Collect information of single eye bud sugarcane seedling production nursery and generate data on the same technology.	Data collected and presented in ensuing SAC meeting.

Sl.No.	Date	No. of Participants	No. of absentees	Salient Recommendations	Action taken
				Production of sugarcane single eye bud, seedlings in KVK.	Will be produced in ensuing <i>kharif</i> season
				Analysis of soil samples in FLDs on micronutrients management in maize.	In 2012 & 2013, FLD on micronutrient management in maize was conducted on the basis of soil sample analysis report given by ICRISAT. Henceforth the action will be attended.
				Demonstration on In situ soil and moisture conservation practice like compartment bunding.	FLD on In situ moisture conservation in <i>rabi</i> sorghum is planned during 2014-15 (20 ha)
				Fodder analysis of Phule Anuradha variety.	Fodder analysis has been done and data will be presented in SAC meeting.
				Impact assessment of every training .	It will be attended.
				Need based trainings for empowerment of women to achieve self employment.	Trainings on empowerment of women is regularly done.
				Documentation of success story	Regularly done and this year two farmers promoted by KVK has been awarded with Krishi Pandit.
				Encouragement of silvi pasture system.	KVK has on farm demonstration on silvi pasture system and farmers are being educated about this.
				Information on free supply of forest seedlings by Forest Dept. should be made available to farmers.	Information is being provided to farmers during trainings.
				Training on cost of cultivation, land record keeping.	It will be attended soon.
				Collection of information of available resources like seedlings, implements, seeds and its price from line depts. and farmers at KVK, Bijapur.	Being provided in all training to the farmers

PART II - DETAILS OF DISTRICT

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	<p>The <i>Kharif</i> crops are mainly grown in shallow eroded black soils (chalka soils), shallow light soils and sandy loams. On account of their low moisture retentive capacity, better infiltration rate, these soils get moistened with early rains in the month of June. The important <i>kharif</i> crops grown are pigeon pea, bajra, maize, onion, greengram, groundnut and sunflower. Besides these main crops, horsegram and sesamum are the other crops grown. Common mixed cropping systems in the region are bajra+redgram and groundnut +redgram. Minor pulses like blackgram and cowpea are also grown as mixed crops along with the above main crops, mainly in talukas which have shallow black or red sandy loam soils. The monsoon (<i>Kharif</i>) cropping situation covers to an extent of 25-30% of the total net cropped areas.</p> <p>If favorable early <i>kharif</i> monsoon rains are received the medium black soils are put under double cropping. greengram, groundnut and sunflower are grown in the <i>kharif</i> season followed by sorghum, safflower and bengalgram in <i>rabi</i> season, Such double cropping situation occurs once in 3-4 years. In deep black soils onion followed by <i>Rabi</i> sorghum relay cropping system is followed.</p> <p>In this region, <i>rabi</i> (post- monsoon) crops are predominately grown, covering about 56 percent of the total sown area due occurrence of vertisols and assured rainfall received by North East monsoon in the months of September and October. The important <i>rabi</i> crops grown are <i>rabi</i> sorghum, sunflower, bengalgram and wheat. Under irrigation, where water supply is assured, generally fruit crops like banana, grape, pomegranate and lime are grown extensively in Bijapur.</p> <p>In canal irrigated command areas, double cropping is in vogue. In black soils, Bt. cotton, maize, sunflower and pulses are grown in the <i>kharif</i> season followed by sorghum, bengalgram, wheat and sunflower in <i>rabi</i>/summer. In irrigated red soils, hybrid cotton, groundnut, maize and pulses are grown in <i>kharif</i> season followed by sunflower, maize, wheat and groundnut.</p>

2.2 Description of Agro-climatic Zone & major agro ecological situations
(Based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1	Rainfall	Bijapur district is characterized by the lowest rainfall in Karnataka state with an average rainfall of 579.0 mm. The district comprises five talukas namely Basavana Bagewadi, Bijapur, Muddebihal, Indi and Sindagi. The five talukas receive rainfall between 565 to 635 mm. About 60 per cent of the annual rainfall is received in the normal monsoon season (June-September), 14 per cent in the pre monsoon (April-May) and about 23 per cent in the post monsoon months (October-November) generally the remaining months are dry.
2	Temperature	The mean monthly maximum temperature varies from 29.3 °C (December) to a maximum of 39.0 °C (May). The mean monthly minimum temperatures are lowest (15.5 °C) during January, which increases gradually to maximum of about 23.3 °C (May)
3	Relative Humidity	The moisture content of the air in the district varies from about 35 per cent during February, March and April to a maximum of about 70 per cent in July, August and September.
4	Wind velocity	The district is characterized by high wind velocity especially during monsoon months. The wind speed varies between 3.6 KMPH (December) to 13.2 KMPH (July)

S. No	Agro ecological situation	Characteristics
1	Rainfed cropping in Monsoon (<i>Kharif</i>)	Soils are shallow black(chalka) shallow light soil and red sandy loams because of better infiltration rate they get moistened with early rain in the month of June-July sufficient to take up sowing of <i>kharif</i> crops. Due to low water holding capacity of these soils and higher evaporative demand due to very high wind velocity during July and August month result in poor yields Tqs: B. Bagewadi, Indi, Sindgi and Bijapur Crops: Bajra, greengram, redgram, sunflower, onion and groundnut
2	Rainfed cropping in Monsoon (<i>Rabi</i>)	Deep black soils with more than 60 cm depth, the clay content of these soils is around 60% and hence very low infiltration rate Available water holding capacity of these soils is around 6 cm to 30cm. The crops grown in the post monsoon season have to mature on the residual soil moisture only. Tqs: B. Bagewadi, Muddebihal, Sindgi and Bijapur Crops: <i>Rabi</i> sorghum, bengalgram and sunflower
3	Rainfed in both monsoon and post monsoon	Soils are medium deep black, fine red clay loam, red and black mixed soils. These soils have around 30-50 % clay content with Infiltration rate and fairly high water holding capacity. Poor investment capacity of the farmers in dry areas and lack of suitable non-cash inputs. Tqs: B. Bagewadi, Indi, Sindgi, Muddebihal and Bijapur Crops: Bajra, greengram, redgram, sunflower, onion and groundnut

4	Medium deep black soil with <i>kharif</i> irrigation	Tqs: B. Bagewadi Crops: Onion, maize, cotton and redgram
5	Red soil and shallow soils with <i>kharif</i> irrigations	Tqs: Indi Crops: Groundnut
6	Medium to deep black soil with <i>rabi</i> irrigation	Tqs: B. Bagewadi, Indi, Sindgi Crops: Wheat and Onion
7	Cropping with biseasonal irrigation	Tqs: Indi and Bijapur Crops: Cotton and redgram
8	Cropping with perennial irrigation	Tqs: Indi, Sindgi and Bijapur Crops: Sugarcane, grape, pomegranate, banana and lime

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Shallow black soil	Shallow black soils are generally noticed in Indi, Sindagi and Bijapur talukas and to some extent in Bagewadi and Muddebihal talukas. The clay content of these soils is around 40 percent with moderate infiltration rate. The available water holding capacity of these varies between 3-4 cm per 30 cm soil depth. These soils generally belong to land capability class between III and IV.	2,62,586
2	Medium black soil	Medium deep black soils occur predominantly in Bagewadi, Bijapur and Sindagi talukas. These soils have clay content around 50 per cent with low to moderate infiltration rate. Generally they belong to land capability class between II and III. The available water holding capacity of these soils is around 5 cm per 30 cm	4,01,737
3	Deep Black soils	Deep black soils predominately occur in Muddebihal, Bijapur and B.Bagewadi talukas, The clay content of these soils is around 60 per cent and hence have very low infiltration rate. In general, these soils fall under land capability class-II. Post – monsoon cropping is most common on these soils. The available water holding capacity of these soils is around 6 cm per 30 cm soil depth.	2,34,113
4	Red loam soils	This type of soil is found in immediate association with black soils and near hillocks .The depth varies from 15 to 100 cm and the clay content is around 30 percent according to topography and parent material from which they are formed and extent of weathering. These soils show moderate to good infiltration rate. The soils are neutral to slightly alkaline in reaction, deficient in nitrogen and phosphorus but contain moderate amount of potassium. The soil can hold about 4 cm of available water per 30 cm soil depth.) The sols generally fall under land capability class-III. Such soils are predominantly found in B.Bagewadi and Indi talukas	48,061

		Such soils are predominantly put under <i>kharif</i> crops and under favorable seasonal conditions double cropping is noticed.	
5	Red sandy soils	Red soils are derived from any one of the four parent materials viz. granite, gneiss, quartz or sand stone. The soils originated from granites or gneiss exhibit deep red or brown colour due to the presence of ferric oxide to the extent of 5 to 8 percent with varying degrees of hydration. The depth of soil varies according to topography. Soil depth to an extent of 2.0 m is also noticed. The ph of soil varies from 6.5 to 7.5 .The profile is invariably free from lime and contains a few iron concretions scattered throughout the profile. The soils have good drainage and high infiltration rate.They respond well to manuring and irrigation.	20,230

2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
1	Crop production			
1.	Maize (K)	72246	205555	2847
2.	Bajra	55438	45773	736
3.	Minor millets	1342	402	300
4.	Redgram	86199	107215	595
5.	Horse gram (K)	2891	2704	287
6.	Horsegram (<i>Rabi</i>)	3260	976	300
7.	Green gram	2269	966	168
8.	Cowpea (K)	612	363	315
9.	Cowpea and other pulses (<i>rabi</i>)	840	232	276
10.	Groundnut	39919	39616	578
11.	Sunflower	74181	21091	373
12.	Niger	139	338	308
13.	Sesamum	254	216	365
14.	Soybean	318	222	700
15.	Cotton	12947	28407(t)	483
16.	Sugarcane (K)	70865	3459117(t)	88(t/ha)
17.	Sugarcane (<i>Rabi</i>)	21428	2142800(t)	100 (t/ha)
18.	Sugarcane (Summer)	4935	493500(t)	100 (t/ha)
19.	Sorghum	232476	190910	1054
20.	Wheat	52074	68354	1125
21.	Bengal gram	181651	106149	715
22.	Safflower	3868	2581	463
23.	Linseed	1481	1326	435
2	Fruit crops			
1.	Mango	246	1482	07(t/ha)

2.	Banana	618	95907	23(t/ha)
3.	Lime	2787	58895	25(t/ha)
4.	Guava	107	399	20(t/ha)
5.	Sapota	232	1584	10(t/ha)
6.	Pomegranate	1107	16909	7.0(t/ha)
7.	Papaya	36	6220	35(t/ha)
8.	Ber	150	4500	30(t/ha)
9.	Custard Apple	64	448	07(t/ha)
10.	Grape	5464	224854	15(t/ha)
11.	Fig	28	84	03(t/ha)
12.	Other fruit crops	95	380	04(t/ha)
3	Vegetable crops			
1.	Tomato	1181	5041	31.64(t/ha)
2.	Brinjal	527	5712	25(t/ha)
3.	Beans	62	133	06(t/ha)
4.	Onion	9756	78494	24(t/ha)
5.	Green chilli	1036	7252	07(t/ha)
6.	Sweet Potato	105	1260	12(t/ha)
7.	Cabbage	06	102	17(t/ha)
8.	Cauli flower	08	136	17(t/ha)
9.	Lady's finger	352	2464	07(t/ha)
10.	Radish	210	21100	10(t/ha)
11.	Beet root	05	65	13(t/ha)
12.	Carrot	195	4095	21(t/ha)
13.	Capsicum	49	441	09(t/ha)
14.	Cluster beans	128	1024	08(t/ha)
15.	Drum stick	102	1122	11(t/ha)
16.	Water melon	23	644	28(t/ha)
17.	Methi	195	1950	10(t/ha)
18.	Palak	115	1150	10(t/ha)
19.	Amaranthus	37	296	08(t/ha)
20.	Curry leaves	120	600	05(t/ha)
21.	Other leafy vegetables	133	665	05(t/ha)
22.	Ash gourd	10	210	21(t/ha)
23.	Snake gourd	51	867	17(t/ha)
24.	Bitter gourd	86	774	09(t/ha)
25.	Ridge gourd	120	960	08(t/ha)
26.	Other gourds	66	660	10(t/ha)
27.	Other vegetables	126	882	07(t/ha)
28.	Spice crops			
29.	Tamarind	240	1200	05(t/ha)
30.	Turmeric	61	549	09(t/ha)
31.	Garlic	515	6180	12(t/ha)
32.	Dry chillies	832	4160	05(t/ha)
33.	Coriander	599	2396	04(t/ha)
34.	Fenugreek	149	447	03(t/ha)

35.	Other spice crops	133	798	06(t/ha)
4	Plantation crops			
1.	Coconut	283	14.72 lakh nuts	0.05 lakh nuts
2.	Betelvine	31	620 lakh leaves	20 lakh leaves
3.	Oil palm	522	-	-
4.	Other garden / plantation crops	123	861	07
5	Flower crops			
1.	Aster	06	03	0.5(t/ha)
2.	Crossandra	02	02	1(t/ha)
3.	Marigold	152	1520	10(t/ha)
4.	Jasmine	63	441	07(t/ha)
5.	Chrysanthemum	58	348	06(t/ha)
6.	Tuberose	47	150	03(t/ha)
7.	Rose (Lakh flowers)	77	77	01(t/ha)
8.	Gerbera (Lakh flowers)	22	22	01(t/ha)
9.	Other flower crops	62	186	03(t/ha)
6	Medicinal and Aromatic plants			
1.	Medicinal plants	57	171	03(t/ha)
2.	Lemon grass	24	168	07(t/ha)
3.	Other Aromatic plants	45	135	03(t/ha)

* Source: Bijapur district at Glance 2012-13

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)	
		Maximum	Minimum	AM(%)	PM(%)
April-2013	31.6	38.7	23.1	58	21
May-2013	50.3	39.3	23.9	72	24
June-2013	89.6	31.7	21.7	86	55
July-2013	206.6	28.5	21.4	89	71
August-2013	72.0	30.4	20.6	90	54
September-2013	194.8	30.7	20.9	91	60
October-2013	112.5	30.7	20.5	89	55
November-2013	0.0	29.2	15.8	84	45
December-2013	0.0	29.0	11.6	80	35
January-2014	0.0	29.7	15.2	79	37
February-2014	6.4	31.7	16.1	66	33
March-2014	27.4	34.5	20.1	61	29

* AICRPAM, RARS, Bijapur

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	1203	1600 tons milk	4.340 lit/day /animal
<i>Indigenous</i>	278582	40,000 tons milk	1.515 lit/ day /animal
Buffalo	191438	59,000 tons milk	1.592 lit/ day /animal
Sheep			
Crossbred			
<i>Indigenous</i>	336015	75 tones meat	18kg mutton /animal
Goats	451980	80 tones meat	16 kg chevon /animal
Pigs			
<i>Crossbred</i>	32	NA	6 kg/ animal
<i>Indigenous</i>	27114	NA	6 kg/ animal
Rabbits	38	NA	
Poultry			
Hens	346372		
<i>Desi</i>	169200	157 lakh eggs	93 eggs/bird
<i>Improved</i>	36400	86 lakh eggs	238 eggs/bird
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

2.7 District profile has been **Updated** for 2013-14 Yes / No: No(Data yet to be published by dept. of Statistics, Bijapur)

2.8 Details of Operational area / Villages

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bijapur	Aheri cluster	Aheri, Tajpur Honnali and sirkanahalli	2012-13 to 2014-15 (for three years)	Bajra, Maize, Sorghum Reggram, Groundnut, Bengal gram, Grape, lime, pomegranate	Moisture stress, water scarcity, non availability of high yielding varieties in sorghum, wheat, Bengal gram weed infestation in wheat, poor nutrition in groundnut, pest and disease incidence in grape and pomegranate onion, Bengal gram and lime canker	Soil and water conservation practices in dry land areas. Introduction of varieties in sorghum, wheat, bengalgram and sorghum, pest and disease management in grape , pomegranate & bengal gram, ICM in Maize , IPDM in Lime & IPDM in grape.
					Livestock (Cattle, Buffalo, Goat, Poultry)	Poor nutrition and diseases in animals	Management of animals for higher productivity, Creation of self employment opportunities.
					Home science	Drudgery and unemployment	Self employment activities and drudgery reduction

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
2.	Indi	Hirebevanur cluster	Hirebevnur & Benakanahalli	2012-13 to 2014-15 (for three years)	Maize ,wheat , Summer groundnut , safflower , onion , surgarcane, wheat & cropping system	Moisture stress, non availability of suitable variety in onion, sorghum, bengalgram , poor nutrition in redgram and banana, green gram weed infestation in wheat ,pest and diseases in redgram, sunflower wheat and banana, labour problem Low yield and increasing cost of production micronutrient deficiency and weed infestation in sugarcane.	Soil and moisture conservation practices, Introduction of high yielding variety in onion, greengram, redgram, sorghum, bengalgram and wheat, wheat rust weed management sunflower. Disease management Production method in sugarcane. ICM in Maize and wheat.
					Live stock	Poor nutrition and disease in animals	Management of animals for higher productivity
					Home science	Drudgery and unemployment	Self employment activities and drudgery reduction

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
3	Sindagi	Kadlewad cluster	Kadlewad, Chattraki & Kannolli	2012-13 to 2014-15 (for three years)	Wheat , Maize , Summer groundnut, Redgram, Sunflower, Safflower, Sugarcane ,Cotton, Grape & Lime	Moisture stress, water scarcity, non availability of high yielding varieties in onion, sorghum, wheat, weed infestation in wheat poor nutrition in groundnut and sugarcane pest and disease in redgram, lime poor flowering, canker and mite, sucking pest in Cotton.	Soil and water conservation practices in dryland areas, Introduction of variety pest and disease management in onion, sorghum, nutrient management in sugarcane and groundnut, pest and disease management in lime and grape. ICM in Maize &wheat , Nutrient management in sugarcane , ICM in Bt.Cotton.
					Sheep & Goats	Poor nutrition and diseases in animals	Management of animals for higher productivity
					Home science	Drudgery and unemployment,	Self employment activities and drudgery reduction

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
4.	B. Bagewadi	Hunshayal cluster	Hunashyal Murtagi, Tadalagi & Bisanal	2012-13 to 2014-15 (for three years)	Bajra, Maize, Sorghum, Wheat, redgram, ground nut bengalgram, Lime, Onion.	Moisture stress, water scarcity, non availability of high yielding varieties in onion, sorghum, wheat ,weed infestation in wheat poor nutrition in groundnut ,pest in redgram, pest & disease in lime poor flowering in lime in hasta bahar , poor cropping system	Soil and water conservation practices in dryland areas, Introduction of variety and disease management in onion, sorghum, nutrient management for sugarcane groundnut, pest and disease management in lime ICM in Maize, wheat & Bengalgram.
					Sheep & Goats	Poor nutrition and diseases in animals	Management of animals for higher productivity
					Home science	Drudgery and unemployment	Self employment activities and drudgery reduction

Sl. No.	Taluk	Name of the block	Name of the village	How long the village is covered under operational area of the KVK (specify the years)	Major crops & enterprises	Major problem identified	Identified Thrust Areas
5.	Muddebihal	Basarkhod cluster	Basarkod & Dhavalagi	2012-13 to 2014-15 (for three years)	Maize, Sorghum, Wheat, Sunflower Redgram, Bengalgram, Sugarcane , Banana	Moisture stress, water scarcity, non availability of high yielding varieties in onion, sorghum, wheat, pest and disease in Redgram & Bengalgram.	Soil and water conservation practices in dryland areas, Introduction of variety pest and disease management in onion, sorghum, nutrient management in sugarcane and groundnut, Redgram wheat , sunflower, chickpea ICM in Bengalgram. & ICM in Banana .
					Sheep & Goats	Poor nutrition and pest diseases in animals	Management of animals for higher productivity
					Home science	Drudgery and unemployment,	Self employment activities and drudgery reduction

2.9 Priority thrust areas

S. No	Thrust area
1.	Moisture conservation
2.	Introduction of new varieties/hybrids
3.	Nutrient Management
4.	Management of pest and diseases
5.	Production of quality produce
6.	Management of livestock
7.	Fodder and disease management in animals
8.	Drudgery reduction
9.	Creation of self-employment opportunities

PART III - TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
06	06	51	30	18	18	240	224

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
108	95	2665	4516	1202	1086	35655	304730

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
105	89	15000	11625

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
Milk 36000	43244 lt	-	-
Poultry- 1000	419	-	-

3.B1. Abstract of interventions undertaken based on thrust areas identified for the district .

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT if any	Title of FLD if any	Number of Training (farmers)	Number of Training (Youths)	Number of Training (extension personnel)	Extension activities (No.)	Supply of seeds (Qtl.)	Supply of planting materials (No.)	Supply of livestock (No.)	Supply of bio products	
													No.	Kg
1.	Moisture conservation	Bajra	Moisture stress	-	Wider row spacing in bajra	01	-		Group meeting-01 Training-01 Field day-01	0.31	-	-	25	1.25
2.	Micronutrient management	Maize	Yellowing stunted growth , reduced grain filling / terminal gap in cobs & low yield	-	Micronutrient management in maize	01	-		Group meeting-01 Training-01 Field day-01	-	-	-	15	325 Vermi comp ost
3.	Stem borer	Maize	Stem borer	-	Stem borer management in maize	01	-	02	Group meeting-01 Training-01 Field day-01		-	-		
4.	Integrated Crop Management	Wheat	Low yielding varieties, weed infestation and rust	-	ICM in Wheat	01	-		Group meeting-01 Training-01	9.0	-	-	15	6.0
5.	Cropping system	Cropping system	Low income with single crop	-	Relay cropping of onion in <i>kharif</i> followed by sorghum in <i>rabi</i> season	01	-		Group meeting-01 Training-01 Field day-01	0.075 + 0.45	-	-	-	-
6.	Integrated Crop Management	Groundnut	Collar rot	Assessment of bio agents & soil amendments for collar rot management in groundnut	-	01	-	-	Group meeting-01 Training-02	-	-	-	-	-
7.	Integrated Crop Management	Sunflower	Powdery mildew, Moisture stress , necrosis and BHHC	-	Wider row spacing and pest management in sunflower	01	-	-	Group meeting-01 Training-01 Field day-01	0.2	-	-	-	-

8.	Integrated Crop Management	Summer groundnut	Low yielding varieties Leaf minor & bud necrosis	-	Introduction of groundnut variety (GPBD-4) and pest management	01	-	-	Group meeting-01 Training-01	0.9	-	-	-	-
9.	Integrated Crop Management	Safflower	Aphids , alterneria leaf spot , capsule borer and poor nutrition .	-	ICM in safflower	01	-	-	Group meeting-01 Training-01 Field day-01	0.75	-	-	15	8.0
10.	Moisture conservation	Redgram	Moisture stress during crop growth period and Yields are low	Assessment of hydrogel as soil amendment for increasing productivity in Red gram	-	01	-	-	Group meeting-01 Training-01	0.15	-	-	05	3.0
11.	Integrated nutrient Management	Redgram	Flower drop, Poor pod set	Response of Red gram to boron nutrition	-	01	-	-	Group meeting-01 Training-01	0.15	-	-	05	3.0
12.	Integrated Crop Management	Redgram	Low yielding varieties, wilt and pod borer , podfly and webber.	-	ICM in red gram	01	-	-	Group meeting-01 Training-01 Field day-01	0.75	-	-	15	8.0
13.	Integrated Crop Management	Bengalgram	Non availability of alternate variety, wilt and pod borer	-	ICM in Bengalgram	01	-	-	Group meeting-01 Training-01 Field day-01	3.0	-	-	15	6.0
14.	Integrated Crop Management	Cotton	Sucking pests, flower drop, leaf reddening & poor nutrition	-	ICM in Bt.Cotton	01	-	-	Group meeting-01 Training-01 Field day-01	-	-	-	-	-
15.	Integrated Crop Management	Sugarcane	Increasing cost of production	-	Popularization of planting methods in sugarcane	01	-	-	Group meeting-01 Training-01 Field day-01	-	10000	-	-	-
16.	Integrated Disease management	Onion	Bulb rot	Bulb rot management in onion	-	01	-	-	Group meeting-01	-	-	-	-	-
17.	Integrated pest management	Onion	Bulb rotting thrips and blotch	-	Arka Bheem variety with ICM	01	-	-	Group meeting-01 Training-01 Field day-01	-	-	-	-	-

18.	Integrated pest management	Grape	Mealy bug, stem borer , Downey mildew, powdery mildew & mite	-	Integrated Pest and Disease management grape .	01	-	01	Group meeting-01 Training-01 Field day-01	-	-	-	-	-
19.	Integrated pest management	Grape	Mite management	-	Mite management in grape	01	-	01	-	-	-	-	-	-
20.	Integrated disease management	Pomegranate	Diseased orchards, Low yield, improper planting	Assessment of tissue culture pomegranate plants with ICM practices for healthy orchard	-	01	-	-	On farm demo	-	-	-	-	-
21.	Integrated disease management	Pomegranate	Bacterial blight , thrips and fruit sucking moth		Plant protection in Pomegranate	01	-	01	Group meeting-01 Training-01 Field day-01	-	-	-	12	26.0
22.	Integrated disease management	Lime	Canker, Gumosis, mite, leaf miner	Lime Canker management	-	01	-	-	Group meeting	-	-	-	05	21
23.	Integrated pest & Disease management	Lime	Citrus butterfly. Leaf miner, mite, canker and gummosis		IPDM in lime (defoliators , canker & mite management)	01	-	01	Group meeting-01 Training-01 Field day-01	-	-	-	10	12
24.	Drudgery reduction	Bengalgram	Boils & pricking on the palm while harvesting of bengalgram & sweating while using cloth gloves	-	Perforated cloth gloves	01	-	01	Group meeting	-	-	-	-	-

3.B2. Details of technology used during reporting period

S.No	Title of Technology	Source of technology	Crop/enterprise	No. of programmes conducted			
				OFT	FLD	Training	Others (Group meeting +Field day)
1	2	3	4	5	6	7	8
1.	Assessment of hydrogel as soil amendment for increasing productivity in Red gram	IARI, New Delhi	Redgram	05	-	-	1+0
2.	Response of Red gram to boron nutrition	Feeler Trial conducted at KVK, Bijapur Physiology of Boron by Lincoln taiz & Edwardo zoiger	Redgram	05	-	01	1+0
3.	Assessment of bio agents & soil amendments for collar rot management in groundnut	NBAII, Bangalore	Groundnut	05	-	-	1+0
4.	Bulb rot management in onion	NRC onion and Garlic	Onion	05	-	-	1+0
5.	Lime Canker management	NRC on citrus Nagapur	Lime	05	-	01	1+0
6.	Assessment of tissue culture pomegranate plants with ICM practices for healthy orchard	NRC Pomegranate, Solapur	Pomegranate	01	-	-	-
7.	Wider row spacing in bajra	AICRP DA , RARS, Bijapur	Bajra	-	25	01	1+1
8.	Micronutrient management in maize	UAS, Dharwad	Maize	-	15	01	1+1
9.	Stem borer management in maize	DMR, New Delhi	Maize	-	10	-	1+1
10.	ICM in Wheat	UAS, Dharwad, DWR Karnal	Wheat	-	15	01	1+0
11.	Relay cropping of onion in <i>kharif</i> followed by sorghum in <i>rabi</i> season	UAS, Dharwad	Onion+ <i>Rabi</i> sorghum	-	15	-	1+1
12.	Wider row spacing and pest management in sunflower	UAS, Bangalore & UAS, Dharwad	Sunflower	-	10	01	1+1
13.	Introduction of groundnut variety (GPBD-4) and pest and disease management	UAS, Dharwad	Summer groundnut	-	10	01	1+0
14.	ICM in safflower	UAS, Dharwad	Safflower	-	15	-	1+1
15.	ICM in red gram	UAS, Raichur & UAS, Dharwad	Redgram	-	15	02	1+1
16.	ICM in Bengalgram	UAS, Dharwad	Bengalgram	-	15	06	1+1
17.	ICM in Bt. Cotton	UAS, Dharwad	Cotton	-	15	01	1+1
18.	Popularization of planting methods in sugarcane	ICRISAT , Hyderabad	Sugarcane	-	04	01	1+0
19.	ICM in Onion	Directorate of Onion and Garlic Research , Rajguru nagar	Onion	-	10	-	1+1
20.	Integrated Pest and Disease management grape	UAS, Dharwad	Grape	-	10	01	1+1

21.	Mite management in Grape	NRC, Grape, Pune	Grape	-	10	01	1+1
22.	Plant protection in Pomegranate	UAS,Dharwad	Pomegranate	-	10	02	1+1
23.	IPDM in lime (defoliators , canker & mite management)	UAS,Dharwad	Lime	-	10	02	1+1
24.	Perforated cloth gloves	KVK, Bijapur	Home science	-	10	-	1+0

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Group meeting + Field days)			
General		SC/ST		General		SC/ST		General		SC/ST		General		SC/ST	
M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
04	0	01	0	-	-	-	-	-	-	-	-	05	0	05	0
04	0	01	0	-	-	-	-	10	02	08	0	10	0	04	0
05	0	03	02	-	-	-	-	-	-	-	-	10	02	03	0
04	0	01	0	-	-	-	-	-	-	-	-	05	0	01	0
3	0	2	0	-	-	-	-	19	0	06	0	10	0	05	0
1	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	14	0	11	0	15	01	04	0	35	0	10	0
-	-	-	-	14	0	1	0	17	02	08	0	55	0	20	04
-	-	-	-	05	01	02	02	-	-	-	-	40	01	09	0
-	-	-	-	13	0	2	0	16	02	08	0	15	02	04	0
-	-	-	-	10	3	2	0	-	-	-	-	30	0	10	0
-	-	-	-	17	2	4	2	19	0	06	0	34	0	11	0
-	-	-	-	9	0	1	0	30	0	10	0	15	0	05	0
-	-	-	-	10	02	3	0	-	-	-	-	55	0	8	0
-	-	-	-	10	01	03	01	40	02	09	0	52	03	10	0
-	-	-	-	11	1	03	0	100	05	45	0	60	05	15	0
-	-	-	-	10	1	3	1	20	0	05	0	50	0	15	0
-	-	-	-	04	0	0	0	10	01	04	0	46	02	10	0
-	-	-	-	10	0	0	0	16	02	08	0	15	02	04	0
-	-	-	-	8	0	2	0	10	0	05	0	55	0	10	0
-	-	-	-	7	01	2	0	10	0	05	0	55	0	10	0
-	-	-	-	8	1	01	0	35	0	10	0	110	02	33	0
-	-	-	-	6	1	3	0	25	0	10	0	80	0	20	0
-	-	-	-	0	8	0	2	-	-	-	-	0	10	0	05

PART IV - On Farm Trial

4.A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management			01							
Varietal Evaluation										
Integrated Pest Management										
Integrated Crop Management						01				01
Integrated Disease Management		01			01	01				03
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology			01							01
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom cultivation										
Total		01	02		01	02				04

4.A2. Abstract on the number of technologies refined in respect of crops : Nil

4.A3. Abstract on the number of technologies assessed in respect of livestock enterprises : Nil

4.A4. Abstract on the number of technologies refined in respect of livestock enterprises : Nil

4.B. Achievements on technologies Assessed and Refined : Nil

4.B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trail covering all the Technological Options)
Integrated Nutrient Management	Redgram	Response of Red gram to boron nutrition	05	05	0.3
	Onion	Bulb rot management in onion	05	05	0.3
Varietal Evaluation					
Integrated Pest Management	Groundnut	Assessment of bio agents & soil amendments for collar rot management in groundnut	05	05	0.3
	Lime	Lime Canker management			0.3
Integrated Crop Management	Pomegranate	Assessment of tissue culture pomegranate plants with ICM practices for healthy orchard	01	-	0.4 On KVK farm
Resource Conservation Technology	Redgram	Assessment of hydrogel as soil amendment for increasing productivity in Red gram	05	05	0.3
Total	06		21	20	1.9

4.B.2. Technologies Refined under various Crops : Nil

4.B.3. Technologies assessed under Livestock and other enterprises : Nil

4.B.4. Technologies Refined under Livestock and other enterprises : Nil

4.C1. Results of Technologies Assessed

1. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Redgram	Rain fed	Moisture stress during crop growth period and Yields are low	Assessment of hydrogel as soil amendment for increasing productivity in Red gram	05	TO1. Opening of furrow after every 4 th row	Days to 50% flowering	85	10.06 q/ha	Applicatio n of hydrogel has found less advantage over RPP under high moisture condition		
						Total No. of branches per plant	30				
						No. of Pods per plant	152				
					TO2. RPP (Repeated intercultivation for 3 times at the interval of 15-20 days	Days to 50% flowering	86	10.86 q/ha			
					Total No. of branches per plant	37					
					No. of Pods per plant	186					
					TO3. RPP+ Hydrogel @2.5 kg /ha	Days to 50% flowering	86	10.60 q/ha			
					Total No. of branches per plant	32					
					No. of Pods per plant	162					
						Moisture observations (%)	33				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1. Opening of furrow after every 4 th row	-	10.06	q/ha	24040	2.48
TO2. RPP (Repeated inter cultivation for 3 times at the interval of 15-20 days)	UASD	10.86	q/ha	27750	2.77
TO3. RPP+ Hydrogel @2.5 kg /ha	IARI, New Delhi	10.60	q/ha	25810	2.56

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

- 1 Title of Technology Assessed : Assessment of hydrogel as soil amendment for increasing productivity in Red gram
- 2 Problem Definition : Moisture stress during crop growth period and Yields are low
- 3 Details of technologies selected for assessment : Hydrogel as soil amendment
- 4 Source of technology : IARI, New Delhi
- 5 Production system and thematic area : Rainfed & moisture conservation
- 6 Performance of the Technology with performance indicators : Application of hydrogel is found less advantageous with band application on soil surface
Moisture percentage & yield
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques : Application of hydrogel has found less advantage over RPP under high moisture condition
- 8 Final recommendation for micro level situation : -
- 9 Constraints identified and feedback for research : No improvement
- 10 Process of farmers participation and their reaction : Participatory

2. Results of On Farm Trial

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Redgram	Rain fed	Flower drop, Poor pod set	Response of Red gram to boron nutrition	05	TO1. FP (19:19:19)	Days to 50% flowering	85	11.06 (q/ha)	More number of pods and more yield		
						Total No. of branches per plant	35				
						No. of Pods per plant	152				
					TO2. RPP (25:50:0 NPK/ha, Sulphur 20 kg/ha and zinc sulphate 15kg/ha)	Days to 50% flowering	86	11.85 (q/ha)			
					Total No. of branches per plant	37					
					No. of Pods per plant	186					
					TO3. RPP+ Granulated boron @2.5 kg/ha+ foliar nutrition of 0.1% boron at flowering and pod filling stage	Days to 50% flowering	86	13.5 (q/ha)			
					Total No. of branches per plant	36					
					No. of Pods per plant	242					

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1. FP (19:19:19)	-	11.06	q/ha	28040	2.73
TO2. RPP (25:50:0 NPK/ha, Sulphur 20 and zinc sulphate 15kg/ha)	UAS, Dharwad	11.85	q/ha	31710	3.02
TO3. RPP+ Granulated boron @2.5 kg/ha+ foliar nutrition of 0.1% boron at flowering and pod filling stage	Feeler Trial conducted at KVK,Bijapur Physiology of Boron by Lincoln taiz & Edwardo zoiger	13.5	q/ha	38050	3.39

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1	Title of Technology Assessed	: Response of Red gram to boron nutrition
2	Problem Definition	: Flower drop, Poor pod set
3	Details of technologies selected for assessment	: Granulated boron @2.5 kg/ha+ foliar nutrition of 0.1% boron at flowering and pod filling stage
4	Source of technology	: KVK, Bijapur
5	Production system and thematic area	: Rainfed & INM
6	Performance of the Technology with performance indicators	: Less flower drop, good pod set and high yield No. of pods/plant & yield
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	: More number of pods and more yield
8	Final recommendation for micro level situation	: -
9	Constraints identified and feedback for research	: No constraints. Soil & foliar application of boron is promising
10	Process of farmers participation and their reaction	: Participatory & high yield

3. Results of On Farm Trial

Crop/enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Groundnut	Irrigated	Collar rot	Assessment of bio agents & soil amendments for collar rot management in groundnut	05	TO1: FP: Seed treatment with Captan @ 2.5g/kg	No. of Diseased plants/1mt row length	01	Crop yet to be harvested	Eco friendly can be used along with organic amendments		
						No. of pods/plant	52				
					TO2: RPP: Seed treatment with <i>Trichoderma</i> @ 4g/kg	No. of Diseased plants/1mt row length	1.5				
						No. of pods/plant	45				
					TO3: AP: Seed treatment with <i>Trichoderma</i> @ 4g/kg.seeds & soil treatment with <i>Pseudomonas flourosense</i> @ 2.5kg & neemcake @ 2.5q /ha	No. of Diseased plants/1mt row length	0.5				
						No. of pods/plant	60				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1: FP: Seed treatment with Captan @ 2.5g/kg	UAS,Dharwad	Crop yet to be harvested	q/ha		
TO2: RPP: Seed treatment with <i>Trichoderma</i> @ 4g/kg	UAS,Dharwad		q/ha		
TO3: AP: Seed treatment with <i>Trichoderma</i> @ 4g/kg.seeds & soil treatment with <i>Pseudomonas flourosense</i> @ 2.5kg & neemcake @ 2.5q /ha	NBAII, Bangalore		q/ha		

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1	Title of Technology Assessed	: Assessment of bio agents & soil amendments for collar rot management in groundnut
2	Problem Definition	: Collar rot
3	Details of technologies selected for assessment	: Seed treatment with <i>Trichoderma</i> @ 4g/kg.seeds & soil treatment with <i>Pseudomonas flourosense</i> @ 2.5kg & neemcake @ 2.5q /ha
4	Source of technology	: NBAII, Bangalore
5	Production system and thematic area	: Irrigated & Disease Management
6	Performance of the Technology with performance indicators	: Percent Disease incidence & yield
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	: Eco friendly can be used along with organic amendments
8	Final recommendation for micro level situation	: Seed treatment with biocontrol agents will improve germination & control the rot disease
9	Constraints identified and feedback for research	: -
10	Process of farmers participation and their reaction	: Participatory, good yields & less collar rot

4. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Onion	Irrigated	Bulb rot	Bulb rot management in onion	05	TO1& TO2: FP and RPP:Seed treatment with Thiaram @ 2g/kg seed	No. of rotted bulbs / 1mt row length Yield	0.8 62.36 q/ha	62.36 q/ha	Less bulb rot due to seed treatment and drenching		
					T O3: Carboxin @ 2 g/kg seed followed by drenching at 30 DAT@ 3 g/lit	No. of rotted bulbs / 1mt row length Yield	0.6 66.13 q/ha	66.13 q/ha			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1& TO2: FP and RPP:Seed treatment with Thiaram @ 2g/kg seed	UAS, Dharwad	62.36	q/ha	12062	1.75
T O3: Carboxin @ 2 g/kg seed followed by drenching at 30 DAT@ 3 g/lit	NRC onion and Garlic	66.13	q/ha	18070	2.20

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1	Title of Technology Assessed	: Bulb rot management in onion
2	Problem Definition	: Bulb rot is major problem in transplanted <i>rabi</i> onion
3	Details of technologies selected for assessment	: Carboxin @ 2 g/kg seed followed by drenching at 30 DAT@ 3 g/lit
4	Source of technology	: NRC onion and Garlic
5	Production system and thematic area	: Irrigated & Disease management
6	Performance of the Technology with performance indicators	: PDI at harvest
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	: Seedling dip is very easy to do and initially the seedlings treated with TO2 were fast growing compared to TO1
8	Final recommendation for micro level situation	: seedling treatment with Carboxin @ 2 g/l will help in management of bulb rot in onion in under irrigated situation
9	Constraints identified and feedback for research	:
10	Process of farmers participation and their reaction	: Participatory

5. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Lime	Irrigated	Canker, Gummosis, mite, leaf miner	Lime Canker management	05	TO1.FP: Spraying with COC @2g/lit	PDI	26.1	141.0 q/ha	<i>Pseudomonas florescens</i> alone is not efficient in managemen t of lime canker		
					TO2. RP: Spraying with Streptocycline Sulphate 0.5g+ COC 2g/l (3 sprays)	PDI	16.1	166.60 q/ha			
					TO3: Spraying with <i>Pseudomonas florescens</i> @ 10 ml/lit (3 sprays)	PDI	27.40	134.4 q/ha			
						Yield					
						Yield					
						Yield					

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
FP: Spraying with COC @ 2g/l	Farmers practice	141.0	q/ha	60175	2.72
RP: Spraying with Streptocycline Sulphate 0.5g + COC @ 2g/l (3 sprays)	UAS, Dharwad	166.60	q/ha	77120	2.95
TO3: Spraying with <i>Pseudomonas florescens</i> @ 10 ml/lit (3 sprays)	NRC on citrus Nagapur	134.0	q/ha	60050	2.78

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1	Title of Technology Assessed	: Canker management in lime
2	Problem Definition	: Canker is major problem in lime
3	Details of technologies selected for assessment	: Spraying with <i>Pseudomonas fluorescence</i> @ 10 ml/lit (3 sprays)
4	Source of technology	: NRC on citrus, Nagapur
5	Production system and thematic area	: Irrigated & Integrated Disease Management
6	Performance of the Technology with performance indicators	: Percent Disease Index
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	: <i>Pseudomonas fluorescence</i> alone is not efficient in management of lime canker
8	Final recommendation for micro level situation	: -
9	Constraints identified and feedback for research	: -
10	Process of farmer's participation and their reaction	: Participatory & better yield compared to untreated plot

6. Results of On Farm Trial

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Pomegranate	Irrigated	Diseased orchards, Low yield, improper planting	Assessment of tissue culture pomegranate plants with ICM practices for healthy orchard	01	TO1&TO2: Healthy seedling + pit planting wit POP TO3:Tissue culture seedling + pit planting with POP	PDI Yield PDI Yield	6 months old crop				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
TO1&TO2: Healthy seedling + pit planting wit POP	UAS, Dharwad				
TO3:Tissue culture seedling + pit planting with POP	NRC Pomegranate, Solapur				

4.C2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

1	Title of Technology Assessed	: Assessment of tissue culture pomegranate plants with ICM practices for healthy orchard
2	Problem Definition	: BLB disease is major production constraint in pomegranate
3	Details of technologies selected for assessment	: Planting of tissue culture pomegranate seedlings
4	Source of technology	: Jain irrigation , Jalana
5	Production system and thematic area	: Irrigated & ICM
6	Performance of the Technology with performance indicators	: PDI & yield
7.	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	: Planted in KVK farm , disease free
8	Final recommendation for micro level situation	: -
9	Constraints identified and feedback for research	: -
10	Process of farmers participation and their reaction	: -

4.D1. Results of Technologies Refined : Nil

PART V - FRONTLINE DEMONSTRATIONS

5.A. Summary of FLDs implemented during 2013-14

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
1	Oilseeds	Rainfed	<i>Kharif-2013</i>	Sunflower	hybrid	KBSH-53	ICM	KBSH -53 with wider row sowing(120 cm) powdery mildew and BHHC Management	10	04	02	08	10	As per the decision taken in staff meeting with ZPD&DE .
	Oilseeds	Irrigated	Summer-2013	Summer groundnut	Variety	GPBD-4	ICM	Introduction of variety groundnut (GPBD-4) and pest and disease management	04	04	01	09	10	
	Oilseeds	Rainfed	<i>Rabi-2013</i>	Safflower	Variety	A1	ICM	ICM in safflower (Variety A1 border row sowing of sorghum with plant protection)	10	06	03	12	15	As per the decision taken in staff meeting with ZPD&DE.
2	Pulses	Rainfed	<i>Kharif-2013</i>	Redgram	Variety	TS-3R	ICM	ICM in red gram	06	06	05	10	15	
	Pulses	Rainfed	<i>Rabi-2013</i>	Bengalgram	Variety	JG-11	ICM	ICM in Bengalgram	06	06	03	12	15	
3	Cereals	Rainfed	<i>Kharif-2013</i>	Bajra	Hybrid	Pvt. Hybrid	Moisture conservation	Wider row spacing in bajra	10	10	11	14	25	
	Cereals	Irrigated	<i>Kharif-2013</i>	Maize	Hybrid	Pvt. Hybrid	INM	Micronutrient management in maize	06	06	0	15	15	

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Cereals	Irrigated	<i>Kharif-2013</i>	Maize	Hybrid	Pvt. Hybrid	IPM	Stem borer management in maize	01	04	04	06	10	
	Cereals	Irrigated	<i>Rabi-2013</i>	Wheat	Variety	UAS-304	ICM	ICM in Wheat	06	06	02	13	15	
	Cereals	Rainfed	<i>Khari-2013 & Rabi-2013</i>	Cropping system	Varieties	Onion (Arka Bheem) <i>Rabi</i> Jowar (M-35-1)	Cropping system	Relay cropping of onion in <i>kharif</i> followed by sorghum in <i>rabi</i> season	06	06	02	13	15	
4	Vegetables	Irrigated	<i>Kharif-2013</i>	Onion	Variety	Arka Bheem	ICM	Arka Bheem variety with ICM	04	04	0	10	10	
5	Fruit	Irrigated	<i>Rabi-2013</i>	Grape	Variety	Thompson seedless	IPDM	Integrated Pest and Disease management grape (DDVP @ 8% stem injection, removal of dead bark , swabbing of insecticides to the stem , digging of soil around the plant and drenching of insecticide , swabbing of Greece around the trunk and supporting structures foliar spray of DDVP+Menark, Fenamidin spray for downey mildew management	04	04	02	08	10	
	Fruit	Irrigated	<i>Rabi-2013</i>	Grape	Variety	Thompson seedless	IPM	Mite management in grape	01	04	02	08	10	
	Fruit	Irrigated	<i>Rabi-2013</i>	Pomegranate	Variety	Ganesh	IPDM	Plant protection in Pomegranate (For BLB Management Sanitation , dusting bleaching powder around the plant use of disinfected , equipment for pruning, spraying of COC + antibiotics , spraying of micronutrients , spraying dimethoate & Carbaryl for thrips & fruit sucking moth managemnet ,	04	04	02	08	10	

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
									Proposed	Actual	SC/ST	Others	Total	
	Fruit	Irrigated	Rabi-2013	Lime	Variety	Kagzi	IPDM	IPDM in lime (defoliators , canker & mite management)	04	04	03	07	10	
6	Commercial	Irrigated	Kharif-2013	Cotton	Hybrid	Pvt. Bt.Cotton	ICM	ICM in Bt. Cotton	06	06	04	11	15	
	Commercial	Irrigated	Rabi-2013	Sugarcane	Variety	Co-86032	ICM	Popularization of planting methods in sugarcane	01	0.8	0	04	04	Reduced the demonstration area and restricted to allotted budget

5.A. 1. Soil fertility status of FLDs plots during 2013-14

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
										N	P	K	
1	Oilseeds	Rainfed	<i>Khariif-2013</i>	Sunflower	hybrid	KBSH-53	ICM	KBSH -53 with wider row sowing(120 cm) powdery mildew and BHHM Management	<i>Khariif-2013</i>	-	-	-	Rabi sorghum, Bengalgram, Wheat
	Oilseeds	Irrigated	<i>Summer-2013</i>	Summer groundnut	Variety	GPBD-4	ICM	Introduction of groundnut variety (GPBD-4) and pest and disease management	<i>Summer-2013</i>	-	-	-	Rabi sorghum, Bengalgram, Wheat
	Oilseeds	Rainfed	<i>Rabi-2013</i>	Safflower	Variety	A1	ICM	ICM in safflower (Variety A1 border row sowing of sorghum with plant protection)	<i>Rabi-2013</i>	148	34	365	Bengalgram Rabi sorghum
2	Pulses	Rainfed	<i>Khariif-2013</i>	Redgram	Variety	TS-3R	ICM	ICM in red gram	<i>Khariif-2013</i>	166	20	270	Rabi sorghum, Bengalgram, Wheat
	Pulses	Rainfed	<i>Rabi-2013</i>	Bengalgram	Variety	JG-11	ICM	ICM in Bengalgram	<i>Rabi-2013</i>	145	34	376	Rabi sorghum sunflower Onion
3	Cereals	Rainfed	<i>Khariif-2013</i>	Bajra	Hybrid	Pvt. Hybrid	Moisture conservation	Wider row spacing in bajra	<i>Khariif-2013</i>	-	-	-	Bengalgram Rabi sorghum
	Cereals	Irrigated	<i>Khariif-2013</i>	Maize	Hybrid	Pvt. Hybrid	INM	Micronutrient management in maize	<i>Khariif-2013</i>	144	17	330	Summer groundnut , Sugarcane
	Cereals	Irrigated	<i>Khariif-2013</i>	Maize	Hybrid	Pvt. Hybrid	IPM	Stem borer management in maize	<i>Khariif-2013</i>	134	24	321	Summer groundnut , Sugarcane
	Cereals	Irrigated	<i>Rabi-2013</i>	Wheat	Variety	UAS-304	ICM	ICM in Wheat	<i>Rabi-2013</i>	-	-	-	Maize, Greengram

Sl. No.	Category	Farming Situation	Season and Year	Crop	Variety/ breed	Hybrid	Thematic area	Technology Demonstrated	Season and year	Status of soil			Previous crop grown
	Cereals	Rainfed	<i>Khari-2013 & Rabi-2013</i>	Cropping system	Varieties	Onion (Arka Bheem) <i>Rabi</i> Jowar (M-35-1)	Cropping system	Relay cropping of onion in <i>kharif</i> followed by sorghum in <i>rabi</i> season	<i>Khari-2013 & Rabi-2013</i>	-	-	-	Rabi sorghum , Bengalgram , sunflower
4	Vegetables	Irrigated	<i>Kharif-2013</i>	Onion	Variety	Arka Bheem	ICM	Arka Bheem variety with ICM	<i>Kharif-2013</i>				Sorghum , Bengalgram , Sunflower
5	Fruit	Irrigated	<i>Rabi-2013</i>	Grape	Variety	Thompson seedless	IPDM	Integrated Pest and Disease management grape	<i>Rabi-2013</i>	-	-	-	-
	Fruit	Irrigated	<i>Rabi-2013</i>	Grape	Variety	Thompson seedless	IPM	Mite management in grape	<i>Rabi-2013</i>	-	-	-	-
	Fruit	Irrigated	<i>Rabi-2013</i>	Pomegranate	Variety	Kesar	IPDM	Plant protection in Pomegranate (For BLB Management Sanitation , dusting bleaching powder around the plant use of disinfected , equipment for pruning, spraying of COC + antibiotics , spraying of micronutrients , spraying dimethoate & Carbaryl for thrips & fruit sucking moth managemnet ,	<i>Rabi-2013</i>	162	34	212	-
	Fruit	Irrigated	<i>Rabi-2013</i>	Lime	Variety	Kagzi	IPDM	IPDM in lime (defoliators , canker & mite management)	<i>Rabi-2013</i>	137	30	291	-
6	Commercial	Irrigated	<i>Kharif-2013</i>	Cotton	Hybrid	Pvt. Bt.Cotton	ICM	ICM in Cotton	<i>Kharif-2013</i>	193	15	362	Maize, Sunflower wheat
	Commercial	Irrigated	<i>Rabi-2013</i>	Sugarcane	Variety	Co-86032	ICM	Popularization of planting methods in sugarcane	<i>Rabi-2013</i>	-	-	-	Maize , Wheat

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Oilseeds																			
Sunflower	KBSH -53 with wider row sowing(120 cm) powdery mildew and BHHC Management	hybrid	KBSH-53	Rainfed	10	04	14.2	13.5	13.74	11.36	21.0	16250	48090	31840	2.96	16500	39760	23260	2.41
Groundnut	Introduction of groundnut variety (GPBD-4) and pest and disease management	Variety	GPBD-4	Irrigated	10	04	-	-	-	-	-	Result awaited							
Safflower	ICM in safflower (Variety A1 border row sowing of sorghum with plant protection)	Variety	A1	Rainfed	25	10	14.0	12.70	13.58	12.50	8.64	9250	47534	38284	5.14	9683	43739	34056	4.52

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Pulses																			
Redgram	ICM in red gram	Variety	TS-3R	Rainfed	15	06	17.80	15.20	16.48	14.47	13.90	16500	65920	49420	4.00	17740	57860	40120	3.27
Bengalgram	ICM in Bengalgram	Variety	JG-11	Rainfed	15	06	21.30	17.50	16.44	15.09	8.91	9800	46018	36218	4.70	10278	40743	30466	3.97
Cereals																			
Bajra	Wider row spacing in bajra	Hybrid	Pvt. Hybrid	Rainfed	25	10	18.6	14.5	17.3	12.02	43.93	10000	19030	9030	1.90	10500	13222	2722	1.26
Maize	Micronutrient management in maize	Hybrid	Pvt. Hybrid	Irrigated	15	06	60.4	55.4	58.76	49.26	19.30	18500	67574	49074	3.65	17500	56649	39149	3.24
Maize	Stem borer management in maize	Hybrid	Pvt. Hybrid	Irrigated	10	04	61.20	55.90	58.60	52.06	12.56	15500	64460	48960	4.16	15750	54663	38913	3.47
Wheat	ICM in Wheat	Variety	UAS-304	Irrigated	15	6	36	30	32.54	25.6	27.11	18000	58572	40572	3.25	17290	46080	28790	2.67
Relay cropping	Relay cropping of onion in <i>kharif</i> followed by sorghum in <i>rabi</i> season	Varieties	Onion (Arka bheem) Rabi Jowar (M-35-1)	Rainfed	15	6	(49.5 t/ha onion) + 8.50 q/ha sorghum)	(42.5 t/ha onion) + 7.40 q/ha sorghum)	(47.1 t/ha onion) + 7.89 q/ha sorghum)	11.4 q/ha sorghum	-	30180	82505	52325	2.73	11115	20604	9489	1.85
Vegetables																			
Onion	ICM in Onion	Variety	Arka bheem	Irrigated	10	04	71.20	59.20	65.94	58.09	13.51	20000	98910	78910	4.95	20651	84223	63572	4.10

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demo.	Area (ha)	Yield (q/ha)				% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
							Demo			Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
							H	L	A										
Fruit																			
Grape	Integrated Pest and Disease management grape (DDVP @ 8% stem injection, removal of dead bark, swabbing of insecticides to the stem, digging of soil around the plant and drenching of insecticide, swabbing of Greece around the trunk and supporting structures foliar spray of DDVP+Menark, Fenamidin spray for downey mildew management)	Variety	Thompson seedless	Irrigated	10	04	193	180	183.90	170.20	8.05	88900	459750	370850	5.17	95911	425500	329589	4.44
Grape	Mite management in grape	Variety	Thompson seedless	Irrigated	10	04	193	180	183.90	170.20	8.05	88900	459750	370850	5.17	95911	425500	329589	4.44
Pomegranate	Plant protection in Pomegranate (For BLB Management Sanitation, dusting bleaching powder around the plant use of disinfected, equipment for pruning, spraying of COC + antibiotics, spraying of micronutrients, spraying dimethoate & Carbaryl for thrips & fruit sucking moth management)	Variety	Kesar/ Ganesh	Irrigated	10	04	75.20	65.30	72.10	63.57	13.42	85650	432600	346950	5.05	88000	317833	229834	3.61
Lime	IPDM in lime (defoliators, canker & mite management)	Variety	Kagzi	Irrigated	10	04	150.60	120	130	116	12.07	41000	91000	50000	2.22	35915	75397	39482	2.11
Commercial																			
Cotton	ICM in Cotton	Hybrid	Pvt. Bt. Cotton	Irrigated	15	06	24.10	19.50	22.56	20.65	9.2	25200	112808	87608	4.48	25615	100171	74556	3.92
Sugarcane	Popularization of planting methods in sugarcane	Variety	Co-86032	Irrigated	04	0.8	175	125	159.4	126.3	26.21	81250	350625	269375	4.32	85000	315625	230625	3.71

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST H – Highest Yield, L – Lowest Yield A – Average Yield

Data on additional parameters other than yield (viz., reduction of percentage in weed/pest/ diseases etc.)

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
1. Sunflower - PDI	6.2 %	9.70
Defoliation (%)	7.80	11.80
2. Redgram -Wilt(%)-	3.1	8.6
Pod borer incidence (%)	7.8	11.70
Webbers/pl	0.92	1.50
Podfly incidence	7.0	12.8
3.Bajra -No. of tillers/ plant	15	04
PDI (Rust)	3.20	8.40
4.Bengalgram - Wilt(%)	2.0	5.8
Pod borer incidence (%)	8.3	12.5
5.Cotton - Leaf hoppers/ 3 leaves	5.6	8.7
Boll worm incidence(%)	6.2	8.9
6.Sugarcane - No. of tillers emerged	18	06
Number of milable came/ clump	2.6	1.9
7.Pomegranate - Thrips / flower	10	12
PDI	9.0	12.50
8.Lime - Defoliation %	3.58	8.90
Mites / 3 leaves	7.80	25.30
PDI	8.80	13.50
9.Grape - Mealy bug infestation (%)	7.30	13.50
PDI	6.80	11.50
No. of mites / leaf	8.30	27.30
10.Maize- No. of dead hearts/5mt row length	0.40	0.20
No. of larve / plant	0.30	0.10
11.Onion- PDI%	7.23	9.45
Thrips / plant	6.25	9.12
12.Safflower - Aphids/5cm growing twig	99.33	110.33
Capsule borer damage (%)	7.23	10.27
13.Maize(M) Tip filling	Good	Less
Grainwt / plant (gram)	126	117
No. of grains/ cob	405	375
100 seed wt (grms)	30.4	28.9
14.Wheat Weed index (%)	2.5	6
Rust incidence	2.0	4.0
15.Cropping system - Bulb weight (grms) of onion	47.5	0
100 seed wt(grms) of sorghum	3.3	3.5

5.B.2. Livestock and related enterprises : Nil**5.B.3. Fisheries : Nil****5.B.4. Other enterprises :**

Enterprise	Name of the technology demonstrated	Variety/ species	No. of Demo	Units/ Area {m ² }	Yield (hours)			% Increase	*Economics of demonstration (Rs./unit) or (Rs./m2)				*Economics of check (Rs./unit) or (Rs./m2)				
					Demo		Check if any		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
					H	L	A										
Others (pl.specify)	Perforated cloth gloves	JG-11	10	2000	10	8	9.2	12.7	-27.5								

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

H-High L-Low, A-Average

5.B.5. Farm implements and machinery : Nil**5.B.6. Extension and Training activities under FLD**

Sl.No.	Activity	No. of activities organized	Number of participants	Remarks
1	Field days	11	673	
2	Farmers Training	23	575	
3	Media coverage	09	-	
4	Training for extension functionaries	02	40	
5	Others (Group meeting)	13	195	

PART VI – DEMONSTRATIONS ON CROP HYBRIDS**Demonstration details on crop hybrids**

Type of Breed	Name of the technology demonstrated	Name of the hybrid	No. of Demo	Area (ha)	Yield (q/ha)			Check	% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo					Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					H	L	A										
Cereals																	
Bajra	Wider row spacing in bajra	Pioneer 8652	25	10	18.6	14.5	17.3	12.02	43.93	10000	19030	9030	1.90	10500	13222	2722	1.26
Maize	Micronutrient management in maize	900M Gold	15	6	60.4	55.4	58.76	49.26	19.30	18500	67574	49074	3.65	17500	56649	39149	3.24
Maize	Stem borer management in maize	900M Gold	10	4	61.20	55.90	58.60	52.06	12.56	15500	64460	48960	4.16	15750	54663	38913	3.47
Sunflower	KBSH -53 with wider row sowing(120 cm) powdery mildew and BHHC Management	KBSH-53	25	10	10	4	13.74	11.36	21	16250	48090	31840	2.96	16500	39760	23260	2.41
Cotton	ICM in Cotton	MRC-7351	15	06	24.10	19.50	22.56	20.65	9.2	25200	112808	87608	4.48	25615	100171	74556	3.91
Total			90	36	174.3	149.3	170.96	145.35	105.99	85450	311962	226512	17.15	85865	264465	178600	14.29

H-High L-Low, A-Average

PART VII. TRAINING

7.A. Training of Farmers and Farm Women including sponsored training programmes

(On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Farming	01	20	20	40	10	10	20	40	20	60
Integrated Crop Management	13	411	0	411	102	0	102	513	0	513
Soil and Water Conservation	06	140	0	140	40	0	40	180	0	180
Production of organic inputs	02	38	2	40	5	3	8	43	5	48
Cultivation of Fruit	01	0	50	50	0	10	10	50	10	60
Value addition	03	80	4	84	15	06	21	95	10	105
Integrated Pest Management	03	49	36	85	09	08	17	58	44	102
Organic manures production	01	45	0	45	3	0	3	45	3	48
TOTAL	30	783	112	895	184	37	221	1024	92	1116

7.B Training of Farmers and Farm Women including sponsored training programmes

(Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	01	45	-	45	05	-	05	50	-	50
Integrated Farming	02	40	-	40	10	-	10	50	-	50
Integrated Crop Management	12	960	102	1062	155	03	158	1217	03	1220
Integrated Nutrient Management	01	20	-	20	03	-	03	23	-	23
Production of organic inputs	02	37	02	39	30	30	60	67	32	99
Livestock Production and Management										
Animal Disease Management	01	210	05	215	20	05	25	230	10	240
Home Science/Women empowerment										
Value addition	01	23	-	23	08	-	08	31	-	31
Women empowerment	04	-	76	76	-	14	14	-	90	90
Women and child care	01	-	25	25	-	05	05	-	30	30
Plant Protection										
Integrated Pest Management	06	155	03	158	40	2	42	195	05	200
Integrated Disease Management	09	377	03	380	118	01	119	495	04	499
TOTAL	40	1867	216	2083	389	60	449	2358	174	2532

7.C. Training for Rural Youths including sponsored training programmes (on campus) : Nil

7.D. Training for Rural Youths including sponsored training programmes (off campus) : Nil

7.E. Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Course S	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	02	43	02	45	09	-	09	52	02	54
Integrated Pest Management	01	20	-	20	05	-	05	25	-	25
Group Dynamics and farmers organization	02	27	07	34	05	05	10	32	11	43
Total	5	90	9	99	19	5	24	109	13	122

7.F. Training programmes for Extension Personnel including sponsored training programmes (off campus) : Nil

7.G. Sponsored training programmes conducted

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
1.a.	Increasing production and productivity of crops	10	370	-	370	94	-	94	464	-	464
2	Production and value addition										
3.	Soil health and fertility management	06	140	-	140	40	-	40	180	-	180
	Total	16	510	0	510	134	0	134	644	0	644

Details of sponsoring agencies involved

1.KSDA

2.KSDH

3.ATMA

7.H. Details of Vocational Training Programmes carried out by KVKs for rural youth

S. No.	Area of training	No. of Course S	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
4.	Income generation activities										
4.a.	Vermi-composting	01	15	-	15	04	-	04	19	-	19
4.i.	Tailoring, stitching, embroidery, dyeing etc.	03	-	65	65	-	18	18	-	83	83
	Grand Total	4	15	65	80	4	18	22	19	83	102

PART VIII – EXTENSION ACTIVITIES

Extension Programmes (including extension activities undertaken in FLD programmes)

Nature of Extension Programme	No. of Programmes	No. of Participants (General)			No. of Participants SC / ST			No. of extension personnel		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	11	567	-	567	106	-	106			
Kisan Mela	02	15000	500	15500	4000	500	4500			
Kisan Ghosthi										
Exhibition	03	210000	10000	220000	50000	10000	60000	800	200	1000
Film Show										
Method Demonstrations	08	140	0	140	20	0	20	16	04	20
Farmers Seminar										
Workshop	01	50	0	50	10	0	10	04	0	04
Group meetings	11	250	20	270	20	-	20			
Lectures delivered as resource persons	23	1500	200	1700	200	33	233			
Newspaper coverage	22									
Radio talks	12									
TV talks	03									
Popular articles	02									
Extension Literature	18									
Advisory Services	650									
Scientific visit to farmers field	113									
Farmers visit to KVK	195	100	-	100	95	-	95	-	-	-
Diagnostic visits	05									
Exposure visits	02									
Ex-trainees Sammelan	0									
Soil health Camp	0									
Animal Health Camp	01	50	5	55	10	-	10	60	05	65
Agri mobile clinic	0									
Soil test campaigns	02									
Celebration of important days (specify)	02	100	100	200	20	10	30	120	110	230
Total	1086	227757	10825	238582	54481	10543	65024	1000	319	1319

PART IX – PRODUCTION OF SEED, PLANT AND LIVESTOCK MATERIALS**9.A. Production of seeds by the KVKs**

Crop category	Name of the crop	Variety	Hybrid	Quantity of seed (qtl)	Value (Rs)	Number of farmers to whom provided
Cereals (crop wise)	Sorghum	M35-1		26.75	117700	892
Oilseeds						
Pulses	Greengram	S-4		7.81	64042	156
	Redgram	TS-3R		14.61	175320	292
	Bengalgram	JG-11		32.83	180565	131
Total	04	04		82	537627	1471

9.B. Production of planting materials by the KVKs

Crop category	Name of the crop	Variety	Hybrid	Number	Value (Rs.)	Number of farmers to whom provided
Fruits	Guava airlayers	L-49		65	2080	02
	Dogridge			500	2500	02
	Lime	Kagzi		11000	22000	100
Total	03			11565	26580	104

9.C. Production of Bio-Products : Nil**9.D. Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Dairy animals				
Layers	Swarnadhara	419	39805	18
Total	01	419	39805	18

PART X – PUBLICATION, SUCCESS STORY, SWTL, TECHNOLOGY WEEK AND DROUGHT MITIGATION

10. A. Literature Developed/Published (with full title, author & reference)

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Management of cuscutta parasitic weed in transplanted onion	S.S.Nooli , A.K.Guggagi, M.B.Patil & S.Y.Wali	01
	Economic analysis of Onion – Jowar relay cropping system	S.Y.Wali , S.M.Vastrad,S.S.Nooli & S.S.Karbhantnal	01
	Picoxystrobin 25 SC, An Effective Eco-Friendly New Fungicide For The Management of Downy Mildew of Grapes	VASTRAD S.M., KARABHANTNAL S.S. AND ARUN SATAREDDY	01
	Impact of Vermicompost Trainings on the Use of Inorganic Fertilizers in Horticulture Eco System in Bijapur District	Karabhantnal S.S., Vastrad S.M., Wali S.Y., Nooli S.S., Sunilkumar N.M., Patil H.B. and Gurumurthy R.	01
	Impact of Trainings and Demonstrations on Pomegranate Blight Management in Bijapur District	Karabhantnal S.S., Vastrad S.M., Patil H.B. and Wali S.Y.	01
	Impact of Trainings and Demonstrations on Pomegranate Blight Management in Bijapur District	Vastrad S.M., Karabhantnal S.S., Wali S.Y. and Nooli S.S.	01
	Evaluation of Wider row spacing for higher yield and productivity of Bajra in Northern Karnataka.	Nooli S.S .,Wali . S.Y., Vastrad.S.M. , and Karbhantnal S.S.	01
	Sustainability of Onion – Rabi Jowar relay cropping system.	Wali . S.Y., Nooli S.S ., Vastrad.S.M. , and Karbhantnal S.S.	01
Technical reports	Survey and assessment of hailstorm damage in Bijapur district	Wali . S.Y., Nooli S.S ., Vastrad.S.M	
News letters	KVK News letter		
Technical bulletins	Krishi mela -2013	S.Y.Wali, S.S.Nooli S.S.Karbantnal	100
	Sansthika bunadi tarabeti kaipidi	S.Y.Wali, S.S.Nooli, S.S.Karbantnal	100
	Groudnut & sunflower production technology hand book	S.Y.Wali, S.S.Nooli, S.S.Karbantnal	100

	Kadale utpadana tantrikate	S.Y.Wali, S.S.Nooli, S.S.Karantnal S.M.Vastrad	100
	Keetanashaka balake- raitara salahe	J.S.Awakkanavar, S.Y.Wali S.S.Nooli, S.S.Karantnal S.M.Vastrad	
Popular articles	Use of fertilizers based on soil testing.	S.S.Nooli & S.Y.Wali	
	Integrated moisture management	S.S.Nooli & S.Y.Wali	
Extension literature	Striga weed management in sorghum	S.S.Nooli, S.S.Karantnal S.M.Vastrad	1000
	Sugarcane weed management	S.S.Nooli, S.S.Karantnal S.M.Vastrad	1000
	Package of practices for rabi sorghum	S.S.Nooli, S.S.Karantnal S.M.Vastrad	1000
	Lime production technology	S.S.Karantnal S.M.Vastrad, I.M.Mannikeri, S.S.Nooli,	1000
	Lime production technology	S.S.Karantnal S.M.Vastrad, I.M.Mannikeri, S.S.Nooli,	1000
	IPDM in Cotton	S.S.Karantnal S.M.Vastrad, I.M.Mannikeri, S.S.Nooli,	1000
	Safflower production technology	S.S.Nooli, S.S.Karantnal S.M.Vastrad	1000
	Vermicompost	S.S.Karantnal S.M.Vastrad, I.M.Mannikeri, S.S.Nooli,	1000
	Vermicompost in Agriculture	S.S.Karantnal S.M.Vastrad, S.Y.Wali, I.M.Mannikeri, S.S.Nooli,	1000
Others (Pl. specify)			
	Rasayanika Kale Niyantana	Dr.A.K.Guggari, Mr.S.S.Nooli, Dr.M.B.Patil & Dr.S.Y.Wali	
TOTAL	26	26	9408

10.B. Details of Electronic Media Produced : Nil

10.C. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period). Nil

10.D. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year : Nil

10.E. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

10.F. Indicate the specific training need analysis tools/methodology followed for : Nil**10.G. Field activities**

- i. Number of villages adopted : 14
 ii. No. of farm families selected : 98
 iii. No. of survey/PRA conducted : 04

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Established

1. Year of establishment : 01.09.2009

2. List of equipments purchased with amount :

Sl. No.	Name of the Equipment	Qty	Cost (Rs)
1.	Ph. Meter	01	8,900.00
2.	Electrical conductivity Bridge	01	9,790.00
3.	Flame Photometer	01	32,040.00
4.	Visible spectro photometer	01	40,050.00
5.	Electronic automatic KEL Plus digestion system and Nitrogen distillation system	01	1,42,844.00
6.	Shaking machine	01	47,025.00
7.	Electronic weighing machine	01	57,000.00
8.	Physical balance	01	10,890.00
9.	Hot air oven	01	16,471.00
10.	Hot plate	01	2,912.00
11.	Grinder	01	14,700.00
12.	Water distillation unit	01	62,444.00
13.	Refrigerator	01	12,285.00
Accessories			
1.	Electronic acid neutralizer scrubber for KEL plus digestion and distillation unit	01	42,185.00
2.	Combined electrode for pH meter	01	23,451.00
	Conductivity cell type for conductivity meter	01	
	Glass cuvettes, plastic cuvettes and tungston haloen lamp for spectro photometer	01	
	Software and interfacing accessories for spectro photometer	01	
	Calcium filter for flame photo meter	01	
3.	Water softner for water distillation unit	01	16,932.00
	Silica heaters for water distillation unit	01	
TOTAL(A)			5,39,919.00
B.	Laboratory furnitures purchased (Lab tables, Steel cabinet, Lab stools, Lab racks)		3,19,749.00
TOTAL (A+B)			8,59,668.00
Un spent balance			332.00

Details of samples analyzed so far since establishment of SWTL:

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	2093	1933	400	418600
Water Samples	596	524	371	59600
Total	2689	2457	771	478200

Details of samples analyzed during the 2013-14 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	313	270	141	62600
Water Samples	163	164	104	16400
Total	476	434	245	79000

10.I. Technology Week celebration during 2013-14 Yes/No, If Yes

Period of observing Technology Week: From 04.02.2014 to 08.02.2014

Total number of farmers visited : 1500

Total number of agencies involved : 05(KVK, KSSCA, KSDA, KSDH , Veterinary Dept. & NGO)

Number of demonstrations visited by the farmers within KVK campus : 04

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	03	750	Organic farming & certification , FMD for live stock management, Effect of Climate change on crops
Lectures organized	09	200	Safflower production technology , mushroom cultivation & bio fertilizer production , value addition in Lime
Exhibition	01	400	Agriculture exhibition
Farm Visit	01	150	Dairy , vermicompost & seedling production unit
Diagnostic Practical's			
Supply of Literature (No.)	01	-	Safflower production technology
Supply of Seed (q)			
Total number of farmers visited the technology week	07	1500	

10. J. Interventions on drought mitigation (if the KVK included in this special programme): Nil

PART XI. IMPACT

11.A. Impact of KVK activities (Not to be restricted for reporting period). : Nil

**11.B. Cases of large scale adoption
(Please furnish detailed information for each case) : Nil**

11.C. Details of impact analysis of KVK activities carried out during the reporting period : Nil

PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture	Joint diagnostic surveys, Trainings, FLD
Dept. of Horticulture	Joint diagnostic surveys, Trainings
Dept of Veterinary and Animal Husbandry	Conducting training
Karnataka Milk Federation	Conducting training programmes
Rural Development and Self- Employment Training Institute (RUDSET) Bijapur	Conducting training programmes
Non Government Organizations (NGO's) such as RUDSET, NYK, etc	Conducting trainings
VVV Clubs	Conducting trainings
Self help Groups	Conducting trainings
Regional Agricultural Research Station	Conducting trainings, demonstrations visits to problematic fields
Agromet Advisory service unit	Tips on weather forecasting
Department of child and women welfare	Conducting trainings
KVIC	Conducting training programme

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

12.B. List Externally Funded Projects / schemes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Role of KVK	Date/ Month of initiation	Funding agency	Amount (Rs.)
IFS project for SC/ST Farmers	Implementing agency	April -2013	Dept. of Social Welfare, GOK.	3767148
Management of cuscuta parasitic weed in transplanted onion	Project implemented on researchable issue	Oct- 2013	ATMA, Bijapur	75,000

12.C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/ No : Yes

If yes, role of KVK in preparation of SREP of the district: Training to Extension officers of various line departments to collect the basic data of the district & to revisit the SREP.

Coordination activities between KVK and ATMA during 2013-14

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	Steering committee meeting	02	-	-
		ATMA Staff meeting	-	03	-
02	Research projects	Management of cuscuta parasitic weed in transplanted onion	-	-	-
03	Training programmes	Trainings on soil & water conservation & Production technology in Kharif crops	-	11	-
		FFS	10	-	
04	Books	Rasayanika Kale Niyatrana			
05	Pamphlets	Redgram production technology	-	-	-

12.D. Give details of programmes implemented under National Horticultural Mission : Nil

12.E. Nature of linkage with National Fisheries Development Board : Nil

12.F. Details of linkage with RKVY : Nil

12. G Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
April 2013	-	-	-
May	-	-	-
June	07	5332	50
July	02	1422	15
August	01	700	10
September	12	8003	85
October	10	5526	72
November	05	3115	50
December	09	4730	25
January 2014	10	9196	25
February	-	-	-
March 2014	06	4828	10
Total for the year 2013-14	62	42852	342

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

13.A. Performance of demonstration units (other than instructional farm) : Nil

13.B. Performance of instructional farm (Crops) including seed production

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Sorghum	27-09-2013	13-03-2014	3.2	M35-1	Certified	26.75	24000	117700	
Pulses									
Greengram	7-06-2013	20-08-2013	2.8	S-4	Foundation	7.81	17500	64042	
Redgram	26-06-2013	28-12-2013	5.0	TS-3R	Foundation	14.61	70000	175320	
Bengalgram	5-10-2013	27-01-2014	5.0	JG-11	Foundation	32.83	60000	180565	

13.C. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,) : Nil

13.D. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Cow	Deonix HF Cross breed	Milk	43244	7,00,000	13,55,049	-

13.E. Utilization of hostel facilities Nil

13.F. Database management

S. No	Database target	Database created
1	Farmers Database	Created
2	FLD Database	Created
3	SMS database	Created

13.G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount sanctioned (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
10,00,000	860762	Farm pond	08	02	-	20000	20	3000	0.6 ha

PART XIV - FINANCIAL PERFORMANCE

14.A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank of India	Dharwad	SBIN0003151	Comptroller, UAS, Dharwad	10025445154	-	SBIN0003151
With KVK	State Bank of India, Bijapur	Bijapur	SBN000819	Programme Coordinator, KVK, Bijapur	31010226801 10465780871	-	SBIN0000819

14.B. Utilization of KVK funds during the year 2013-14 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	5700000	5700000	7280488
2	Traveling allowances	124000	124000	123722
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	215000	215000	214655
B	POL, repair of vehicles, tractor and equipments	185000	185000	184888
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	66000	66000	65885
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	22000	22000	18121
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	376000	376000	375955
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	44000	44000	43602
G	Training of extension functionaries	20000	20000	17948
H	Maintenance of buildings	25000	25000	0
I	Farmers field school	20,000	20,000	19832
J	Extension activities	36,000	36,000	35759
K	Establishment of Soil, Plant & Water Testing Laboratory	0	0	0
L	Library	5000	5000	4965
TOTAL (A)		6,838,000	6,838,000	8385820=00
B. Non-Recurring Contingencies				
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		6,838,000	6,838,000	8385820=00

14.C. Status of revolving fund (Rs. in lakh) for the three years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2011 to March 2012	234230=34	358807	338358	254679=34
April 2012 to March 2013	254679=34	14,19,772	6,67,425	1007026=34
April 2013 to March 2014	1007026=34	2089467	1426868	1669625=34

15. Details of HRD activities attended by KVK staff during 2013-14

Name of the staff	Designation	Title of the training programme	Institute where attended	Dates
S.S.Karbhantanal	SMS(Ag.Entomology)	Pest surveillance	NIPHM, Hyderabad	3-10-October, 2013
S.S.Nooli	SMS(Agronomy)	Revisiting to SREP	Director (SAMETI), UAS, Dharwad & MANAGE, Hyderabad	15 th to 19 th July, 2013 & STU,UAS, Dharwad
Mr.S.C.Rathod	Programme Assistant (Computer)	KIOSK use & management training	Directorate of Extension, UAS, Dharwad	23.01.2014 DE, Office
Dr.I.M.Mannikeri	SMS(Horticulture)	Sandal based agro-forestry models for farmers in Karnataka and Goa	The Institute of Wood Science and Technology Malleshwaram Bangalore -12	6 th to 8 th January, 2014
S.S.NOOLI	SMS(Agronomy)	Attended one day sensitization programme held on on control of FMD to animals at IVRI Campus, Hebbal, Bangalore	ZPD Zone-8 and IVRI ,Bangalore	1-2-2014

16. Please include any other important and relevant information which has not been reflected above (write in detail). : Nil

SUMMARY FOR 2013-14

I. TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Integrated Nutrient Management	Redgram	Response of Red gram to boron nutrition	05
	Onion	Bulb rot management in onion	05
Integrated Pest Management	Groundnut	Assessment of bio agents & soil amendments for collar rot management in groundnut	05
	Lime	Lime Canker management	
Integrated Crop Management	Pomegranate	Assessment of tissue culture pomegranate plants with ICM practices for healthy orchard	01
Resource Conservation Technology	Redgram	Assessment of hydrogel as soil amendment for increasing productivity in Red gram	05
Total			21

Summary of technologies assessed under livestock : Nil

Summary of technologies assessed under various enterprises : Nil

Summary of technologies assessed under home science : Nil

II. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops : Nil

Summary of technologies assessed under refinement of various livestock : Nil

Summary of technologies refined under various enterprises : Nil

Summary of technologies refined under home science : Nil

III. FRONTLINE DEMONSTRATION

Crops

Crop	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Cereals																		
Bajra	Moisture conservation	Wider row spacing in bajra		25	10	17.3	12.02	43.93	15 (No. of tillers)	04(No. of tillers)	10000	19030	9030	1.90	10500	13222	2722	1.26
Maize	INM	Micronutrient management in maize		15	06	58.76	49.26	19.30	405 (No. of grains / cob)	375 (No. of grains / cob)	18500	67574	49074	3.65	17500	56649	39149	3.24
Maize	IPM	Stem borer management in maize		10	04	58.60	52.06	12.56	0.4(No. of dead hearts/ 5mt row length)	0.2(No. of dead hearts/ 5mt row length)	15500	64460	48960	4.16	15750	54663	38913	3.47
Wheat	ICM	ICM in Wheat		15	6	32.54	25.6	27.11	2.5(weed index)	6.0(weed index)	18000	58572	40572	3.25	17290	46080	28790	2.67
Cropping system	Cropping system	Relay cropping of onion in <i>kharif</i> followed by sorghum in <i>rabi</i> season		15	6	(47.1 t/ha onion) + 7.89 q/ha sorghum)	11.4 q/ha sorghum	-	47.5 (bulb weight of onion) 3.3 ((100 seed weight of sorghum)	0 (bulb weight of onion) 3.5 ((100 seed weight of sorghum)	30180	82505	52325	2.73	11115	20604	9489	1.85
Oilseeds																		
Sunflower	ICM	KBSH -53 with wider row sowing(120 cm) powdery mildew and BHHC Management		10	04	13.74	11.36	21	7.80 (Defoliation %)	11.80 (Defoliation %)	16250	48090	31840	2.96	16500	39760	23260	2.41

Groundnut	ICM	Introduction of groundnut variety (GPBD-4) and pest and disease management		10	04	Result awaited		-	-	-	-	-	-	-	-	-	-	-
Safflower	ICM	ICM in safflower (Variety A1 border row sowing of sorghum with plant protection)		15	10	13.58	12.50	8.64	99.33 (Aphids/5cm growing twig)	110.33 (Aphids/5cm growing twig)	9250	47534	38284	5.14	9683	43739	34056	4.52
Pulses																		
Redgram	ICM	ICM in red gram		15	06	16.48	14.47	13.89	3.1 (wilt %)	8.6 (wilt %)	16500	65920	49420	4.00	17740	57860	40121	3.27
Bengalgram	ICM	ICM in Bengalgram		15	06	16.44	15.09	8.91	8.3 (Pod borer incidence)	12.5 (Pod borer incidence)	9800	46018	36218	4.70	10278	40743	30466	3.97
Vegetables																		
Onion	ICM	ICM in Onion		10	04	65.94	58.09	13.51	7.3 (PDI %)	9.45 (PDI %)	20000	98910	78910	4.95	20651	84223	63572	4.10
Fruit																		
Grape	IPDM	Integrated Pest and Disease management grape (DDVP @ 8% stem injection, removal of dead bark , swabbing of insecticides to the stem , digging of soil around the plant and drenching of insecticide , swabbing of Greece around the trunk and supporting structures foliar spray of DDVP+Menark, Fenamidin spray for downey mildew management)		10	04	183.90	170.20	8.05	7.3 (Mealy bug infestation)	13.5 (Mealy bug infestation)	88900	459750	370850	5.17	95911	425500	329589	4.44
Grape	IPM	Mite management in grape		10	04	183.90	170.20	8.05	8.3 (No. of mites/leaf)	27.3 ((No. of mites/leaf)	88900	459750	370850	5.17	95911	425500	329589	4.44

Pomegranate	IPDM	Plant protection in Pomegranate (For BLB Management Sanitation , dusting bleaching powder around the plant use of disinfected , equipment for pruning, spraying of COC + antibiotics , spraying of micronutrients , spraying dimethoate & Carbaryl for thrips & fruit sucking moth management)		10	04	72.10	63.57	13.42	9.0 (PDI %)	12.5 (PDI %)	85650	432600	346950	5.05	88000	317833	229834	3.61
Lime	IPDM	IPDM in lime (defoliators , canker & mite management)		10	04	130	116	12.07	8.8 (PDI %)	13.5 (PDI %)	41000	91000	50000	2.22	35915	75397	39482	2.11
Commercial																		
Cotton	ICM	ICM in Cotton		15	06	22.56	20.65	9.2	6.2 (Bollworm incidence)	8.9 (Bollworm incidence)	25200	112808	87608	4.48	25615	100171	74556	3.92
Sugarcane	ICM	Popularization of planting methods in sugarcane		04	0.8	159.4	126.3	26.20	18.0 (no. of tillers emerged)	6.0 (no. of tillers emerged)	81250	350625	269375	4.32	85000	315625	230625	3.71
Total					214	88.8												

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Livestock : Nil

Fisheries : Nil

Other enterprises :

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit				
					Demons ration	Check		Demons ration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR	
Others (pl.specify)	Perforated cloth gloves		10	10	92	127	22.55											
Total			10	10														

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Women empowerment : Nil

Farm implements and machinery : Nil

Other enterprises

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demonstration	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra	Pioneer 8652	25	10	17.3	12.02	43.93	10000	19030	9030	1.90
Maize	900M Gold	15	6	58.76	49.26	19.30	18500	67574	49074	3.65
Maize	900M Gold	10	4	58.60	52.06	12.56	15500	64460	48960	4.16
Total		50	20	134.66	113.34	75.79	44000	151064	107064	9.71
Sunflower	KBSH-53	25	10	13.74	11.36	21	16250	48090	31840	2.96
Total		25	10	13.74	11.36	21	16250	48090	31840	2.96
Commercial crops										
Sugarcane										
Cotton	MRC-7351	15	06	22.56	20.65	9.2	25200	112808	87608	4.48
Total		15	06	22.56	20.65	9.2	25200	112808	87608	4.48
Total		90	36	170.96	145.35	105.99	85450	311962	226512	17.15

IV. Training Programme

Training for Farmers and Farm Women including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Integrated Farming	01	20	20	40	10	10	20	40	20	60
Integrated Crop Management	13	411	0	411	102	0	102	513	0	513
Soil and Water Conservation	06	140	0	140	40	0	40	180	0	180
Production of organic inputs	02	38	2	40	5	3	8	43	5	48
b) Fruits										
Cultivation of Fruit	01	0	50	50	0	10	10	50	10	60
Home Science/Women empowerment										
Value addition	03	80	4	84	15	06	21	95	10	105
Plant Protection										
Integrated Pest Management	03	49	36	85	09	08	17	58	44	102
Production of Inputs at site										
Organic manures production	01	45	0	45	3	0	3	45	3	48
TOTAL	30	783	112	895	184	37	221	1024	92	1116

Training for Farmers and Farm Women including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop Production										
Weed Management	01	45	-	45	05	-	05	50	-	50
Integrated Farming	02	40	-	40	10	-	10	50	-	50
Integrated Crop Management	12	960	102	1062	155	03	158	1217	03	1220
Integrated Nutrient Management	01	20	-	20	03	-	03	23	-	23
Production of organic inputs	02	37	02	39	30	30	60	67	32	99
Livestock Production and Management										
Animal Disease Management	01	210	05	215	20	05	25	230	10	240
Home Science/Women empowerment										
Value addition	01	23	-	23	08	-	08	31	-	31
Women empowerment	04	-	76	76	-	14	14	-	90	90
Women and child care	01	-	25	25	-	05	05	-	30	30
Plant Protection										
Integrated Pest Management	06	155	03	158	40	2	42	195	05	200
Integrated Disease Management	09	377	03	380	118	01	119	495	04	499
TOTAL	40	1867	216	2083	389	60	449	2358	174	2532

Training for Rural Youths including sponsored training programmes (on campus) : Nil

Training for Rural Youths including sponsored training programmes (off campus) : Nil

Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	02	43	02	45	09	-	09	52	02	54
Integrated Pest Management	01	20	-	20	05	-	05	25	-	25
Group Dynamics and farmers organization	02	27	07	34	05	05	10	32	11	43
Total	5	90	9	99	19	5	24	109	13	122

Training programmes for Extension Personnel including sponsored training programmes (off campus) : Nil

Sponsored training programmes

S.No.	Area of training	No. of Courses	No. of Participants								
			General			SC/ST			Grand Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Crop production and management										
a	Increasing production and productivity of crops	10	370	-	370	94	-	94	464	-	464
2	Soil health and fertility management	06	140	-	140	40	-	40	180	-	180
	Total	16	510	0	510	134	0	134	644	0	644

Details of Vocational Training Programmes carried out for rural youth

S.No.	Area of training	No. of Courses	No. of Participants									
			General			SC/ST			Grand Total			
			Male	Female	Total	Male	Female	Total	Male	Female	Total	
1	Post harvest technology and value addition											
2	Income generation activities											
a	Vermi-composting	01	15	-	15	04	-	04	19	-	19	
b	Tailoring, stitching, embroidery, dying etc.	03	-	65	65	-	18	18	-	83	83	
	Grand Total	4	15	65	80	4	18	22	19	83	102	

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	650	650		1300
Diagnostic visits	05			5
Field Day	11	673		684
Group discussions	11	290		301
Kisan Mela	02	20000	500	20502
Exhibition	03	226000	1000	227003
Scientists' visit to farmers field	113			113
Plant/animal health camps	01	65	05	71
Method Demonstrations	08	160	20	188
Celebration of important days	02	230	10	242
Total	806	248068	1535	

Details of other extension programmes

Particulars	Number
Electronic Media	03
Extension Literature	18
News Letter	02
News paper coverage	22
Technical Articles	02
Technical Bulletins	04
Technical Reports	01
Radio Talks	12
TV Talks	03
Animal health camps (Number of animals treated)	01
Others (pl.specify)	0
Total	68

VI. PRODUCTION OF SEED/PLANTING MATERIAL

Production of seeds by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Sorghum	M35-1	26.75	117700	892
Pulses	Greengram	S-4	7.81	64042	156
	Redgram	RS3R	14.61	175320	292
	Bengalgram	JG-11	32.83	180565	131
Total	04	04	82	537627	1471

Production of planting materials by the KVKs

Crop category	Name of the crop	Name of the variety (if hybrid pl. specify)	Number	Value (Rs.)	Number of farmers
Fruits	Guava airlayers	L-49	65	2080	02
	Dogridge		500	2500	02
	Lime	Kagzi	11000	22000	100
Total	03	02	11565	26580	104

Production of Bio-Products : Nil

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Layers	Swarnadhara	419	39805	18
Total	01	419	39805	18

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS 2013-14

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	313	270	141	62600
Water	163	164	104	16400
Total	476	434	245	79000

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted :01

IX. NEWSLETTER

Number of issues of newsletter published : 02

X. RESEARCH PAPER PUBLISHED

Number of research paper published : 08

Title	Authors name	Number
Management of cuscutta parasitic weed in transplanted onion	S.S.Nooli , A.K.Guggagi, M.B.Patil & S. Y.Wali	01
Economic analysis of Onion –Jowar relay cropping system	S. Y.Wali , S.M.Vastrad,S.S.Nooli & S.S.Karbhantnal	01
Picoxystrobin 25 SC, An Effective Eco-Friendly New Fungicide For The Management of Downy Mildew of Grapes	VASTRAD S.M., KARABHANTNAL S.S. AND ARUN SATAREDDY	01
Impact of Vermicompost Trainings on the Use of Inorganic Fertilizers in Horticulture Eco System in Bijapur District	Karabhantnal S.S., Vastrad S.M., Wali S.Y., Nooli S.S., Sunilkumar N.M., Patil H.B. and Gurumurthy R.	01
Impact of Trainings and Demonstrations on Pomegranate Blight Management in Bijapur District	Karabhantnal S.S., Vastrad S.M., Patil H.B. and Wali S.Y.	01
Impact of Trainings and Demonstrations on Pomegranate Blight Management in Bijapur District	Vastrad S.M., Karabhantnal S.S., Wali S.Y. and Nooli S.S.	01
Evaluation of Wider row spacing for higher yield and productivity of Bajra in Northern Karnataka.	Nooli S.S .,Wali . S.Y., Vastrad.S.M. , and Karbhantnal S.S.	01
Sustainability of Onion – Rabi Jowar relay cropping system.	Wali . S.Y., Nooli S.S .,Vastrad.S.M. , and Karbhantnal S.S.	01

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM

Activities conducted				
No. of Training programmes	No. of Demonstrations	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
08	02	-	20000	20

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