

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
Krishi Vigyan Kendra Babbur Farm Hiriyur-577 598 Chitradurga District Karnataka	08193-289160	08193-289160	kvkchitradurga@gmail.com	www.kvkchitradurga.in

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 & Horticultural Sciences, Shimoga-560065 Karnataka	08182- 267001	08182-298008	vcuahs2014@gmail.com	www.uahs.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sarvajna B. Salimath	08193-289160	9480838201	kvkchitradurga@gmail.com sarvajnauasb@rediffmail.com

1.4. Year of sanction: 2000 under NATP, 2004 as full fledged KVK

1.5. Staff Position (as on 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	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator /SMS	Dr. Sarvajna B. Salimath	Programme Coordinator /SMS	M	Soil Science & Agril. Chemistry	Ph.D.	15600-39100	20650+7000	01-09-2008	Permanent	Others
2	SMS	Dr. S. Onkarappa	SMS	M	Agril. Entomology	Ph.D.	15600-39100	19050+6000	17-07-2009	Permanent	Others
3	SMS	Mr. Prakash Kerure	SMS	M	Horticulture	M.Sc.	15600-39100	17610+6000	10-11-2011	Permanent	OBC
4	SMS	Ms. N. Sudharani	SMS	F	Food Science & Nutrition	M.Sc	15600-39100	16920+6000	19-10-2012	Permanent	OBC
5	SMS	Dr. Rudragouda F. Channagouda	SMS	M	Agronomy	Ph.D.	15600-39100	16250+6000	17-10-2013	Permanent	OBC
6	SMS	Mr.Gajendra T.H	SMS	M	Agril. Extension	M.Sc.	1560039100	16250+6000	06-12-2013	Permanent	OBC
7	Programme Assistant(Lab Tech.) /T-4	Ms. B.N. Geetha Kumari	Programme Assistant	F	Agriculture	B.Sc. (Agri.)	9300-34800	11000+4200	08-11-2010	Permanent	OBC
8	Programme Assistant (Computer)/ T-4	Miss Kavitha P.Naik	Programme Assistant	F	Computer Science	B.Sc. (Computer)	9300-34800	9710+4200	31-11-2013	Permanent	OBC
9	Programme Assistant/ Farm Manager	-	-	-	-	-	-	-	-	-	-
10	Assistant	Mr. D. Gurumurthy	Accountant/ Superintendent	M	Assistant	BA	9300-34800	16800	01-01-2013	Permanent	Others
11	Jr. Stenographer	A. Rekha	Jr. Stenographer	F	Junior Stenographer	BA	5200-20200	14550	27-12-2013	Temporary	OBC
12	Driver	Mr. Mahaboob Patel	Driver	M	Tractor Driver	S.S.L.C.	5200-20200	16800	23-10-2008	Permanent	OBC
13	Driver	Mr. Bhadraiah	Driver	M	Jeep Driver	7 th	5200-20200	11600	10-03-2014	Temporary	Others
14	Supporting staff	Mr. Basavaraju	Assistant Cook cum Care taker	M	Asst. Cook cum Caretaker	7th	5200-20200	9600	22-12-2008	Permanent	OBC
15	Supporting staff	G. Nagaraj	Messenger	M	Messenger	S.S.L.C	5200-20200	11400	04-12-2013	Temporary	ST

1.6. Total land with KVK (in ha) : 36.9 ha

S. No.	Item	Area (ha)
1	Under Buildings	08.00
2.	Under Demonstration Units	03.00
3.	Under Crops	22.30
4.	Orchard/Agro-forestry	03.60
5.	Others	-

1.7. Infrastructural Development:

A) Buildings

Sl. 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	2009	550	55.0 lakh	-	-	-
2.	Farmers Hostel	ICAR	December 2002	305	30.0 lakh	-	-	-
3.	Staff Quarters	-	-	-	-	-	-	-
4.	Demonstration Units	-	-	-	-	-	-	-
5	Compost Unit	ICOF	October 2009	77.25	1.5 lakh	-	-	-
6	Nursery	NHM	2009-10	-	3.0 lakh	-	-	-
7	Rain Water Harvesting System	ICAR	March 2008		9.70 lakh	-	-	
8	Threshing Floor	-	-	-	-	-	-	-
9	Farm Store house	-	-	-	-	-	-	-
10	Plant Health Clinic	NHM	June 2008	-	20 lakh	-	-	-
11	Vehicle & Implement Shed	ICAR	Sept 2011	-	2.65 lakh	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Bolero KA 16 A 457	2004	4,35,386	288674	Good Condition
Two Wheeler (Hero Honda) KA 16 S 4401	2009	42,645	11722	Good Condition
Scooter (Honda Activa) KA 16 S 4415	2009	39,350	21109	Good Condition

C) Equipments & AV aids

Sl No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
I.	Electronic Items			
1.	Samsung 21" CTV	2001-02	14,980	Good condition
2.	VCP (BPL)	2001-02	9,980	Not in good condition
3.	Multifunctional copier	2001-02	1,09,530	Not in good condition
4.	V-Guard stabilizer	2001-02	4,970	Good condition
5.	Public Address System	2001-02	NA	Good condition
6.	Generator	2001-02	95,000	Good condition
7.	Autoclave with pressure gauge	2001-02	12,000	Good condition
8.	Refrigerator with stand	2002-03	14,700	Good condition
9.	V-Guard stabilizer	2002-03	1,575	Good condition
10.	Computer with accessories	2002-03	1,07,000	Good condition
11.	5821 STAB copier O.C. M109175 production S.L.No: 2905743336 Xerox machine	2006-07	66,090	Not in good condition
12.	Laptop Compaq Note Book – 506 Note book carry case	2006-07	26,955 1,125	Good Condition
13.	Stabilizer (Including VAT)	2006-07	7,500	Good Condition
14.	Toshiba Project TDP-535	2006-07	60,106	Good Condition

SI No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
15.	1 BM Optical Laptop Mouse	2007-08	312	Not in good condition
16.	Exide Imarce/300 Tuballur batteries	2007-08	11,800	Not in good condition
17.	Universal Microplate Reader CAT. No. Ex-800, S.R No: 209216	2007-08	1,65,000	Good Condition
18.	Printer – Epson Lx300,80 column, DOT Matrix, S. R.No: JNWY 696632	2007-08	1,95,188	Not in good condition
19.	Electronic Balance	2007-08	26,437	Good Condition
20.	Hytech UPS H.T. 1000 VA Inbuilt Dry Battery	2008-09	4,750	Good Condition
21.	Godrej Brother-827(S) Plain Paper Fax Machine	2008-09	9,990	Good Condition
22.	Transcend 4 GB Pen Drive	2009-10	820	Good condition
23.	Kingston 8 GB Pen Drive	2009-10	576	Good condition
24.	Sathyam Digital scale	2009-10	4,500	Not in good condition
25.	8 GB Scan Disk pen drive	2009-10	4,904	Good condition
26.	EPBAX System with UPS	2010-11	45,000	Good condition
27.	Generator	2010-11	95,000	Good condition
28.	Electronic ER 330 CD OX magic refrigerator	2005-06	1,000	Good condition
29.	V-Guard stabilizer	2005-06	1,900	Good condition
30.	Camera	2005-06	19,990	Not in good condition
31.	Overhead Projector	2005-06	19,958	Good condition
32.	Xerox machine	2005-06	75,000	Good condition
33.	Stand Mic	2013-14	2150	Good condition
34.	supplied by: <u>Tamil Nadu Agriculture University</u> 1) Direct Paddy Drum seeder (8 row)	2013-14	-	Good condition
	2) Cona Weeder	2013-14	-	Good condition
35.	Sony Digital camera DSC-H 300-20.1 mega 35 x zoom (IFSD)	2013-14	14490	Good condition
36.	Digital PH Meter (Make- Elico) FGL1120 Model No.	2013-14	12366	Good condition
37.	R.O. Water purifier system (IRO-350)	2013-14	29010	Good condition

SI No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
II.	Farm Equipments			
1.	Tractor	2001-02	2,99,743	Good condition
2.	Water Tanker	2001-02	47,860	Not in good condition
3.	Cultivator	2001-02	11,000	Good condition
4.	M.B.Plough	2001-02	10,600	Good condition
5.	Cage wheel	2001-02	8,500	Good condition
6.	Multipurpose Tiller with pneumatic tyre	2009-10	84,000	Good condition
7.	Light Duty Adjustable type single bottom MB Plough	2009-10	4,000	Good condition
8.	Light Duty Single bottom Furrow opener	2009-10	4,500	Good condition
9.	Light duty adjustable type ridger	2009-10	2,500	Good condition
10.	Hand operated medium size G.N. Decorticator	2009-10	2,000	Good condition
11.	Hand operated G.N. Pod graders	2009-10	1,600	Good condition
12.	Hand Operated G.N. seed grader	2009-10	1,200	Good condition
13.	Hand weeder	2005-06	8,625	Good condition
14.	Secature	2005-06	1,250	Not in good condition
15.	Cutters	2005-06	50	Not in good condition
16.	Test sieves	2005-06	1,150	Not in good condition
17.	Laser guided land leveller	2012-13	3,25,000	Good condition
18.	Post hole digger	2012-13	42,748	Good condition
19.	National Zero till Seed cum fertilizer drill	2012-13	47,500	Good condition
20.	Multi crop thresher	2011-12	1,23,250	Good condition
III.	Hostel Material/ Office Furniture			Good condition
1.	Solar water heater with extra collector	2002-03	71,750	Good condition
2.	Solar lantern	2002-03	3,510	Good condition
3.	Home light system	2002-03	24,800	Good condition
4.	Voltas Water Cooler Fully stainless steel capacity 20 lt	2006-07	22,500	Good Condition
5.	Iron Stool	2009-10	275	Good condition
6.	Cylinder with stove(2 kg)	2009-10	1,770	Good condition
7.	Single cot 14 gauges	2001-02	23,510	Good condition

Sl No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
8.	Mattress +Pillow	2001-02	20,700	Not in good condition
9.	Poles for cot	2001-02	-	Good condition
10.	Tables	2001-02	12,220	Good condition
11.	Chairs	2001-02	11,250	Good condition
12.	Almirah with 4 shelves	2001-02	18,890	Good condition
13.	Book case	2001-02	9,852	Good condition
14.	Curtains	2002-03	8,243	Not in good condition
15.	Curtains & cot accessories	2002-03	-	Good condition
16.	Karl-on bed	2002-03	-	Good condition
17.	Pillow covers, bed spreads + pillows	2002-03	-	Good condition
18.	Steel plates	2002-03	2,000	Good condition
19.	Tiffin plates	2002-03	1,200	Good condition
20.	Water glasses	2002-03	-	Good condition
21.	Steel coffee glasses	2002-03	-	Good condition
22.	Kitchen items + others	2002-03	-	Good condition
23.	Mosquito nets	2002-03	12,300	Not in good condition
24.	Bed sheets	2002-03	9,150	Good condition
25.	Single cots	2002-03	1,00,600	Good condition
26.	Sofa cum chair with cushion	2002-03	2,800	Good condition
27.	Blanket	2002-03	1,500	Good condition
28.	Kurl-on beds	2002-03	38438	Good condition
29.	23 Teepoy	2002-03	-	Good condition
30.	24 Dining sets	2002-03	58,200	Good condition
31.	Peacock RTA 111 R chairs	2010-11	17,622	Good condition
32.	Godrej T-8 Office Table	2010-11	7,040	Good condition
33.	Godrej PCH- 7201 R	2010-11	28,591	Good condition
34.	Zuari Emerge Dias table	2010-11	9,515	Good condition
35.	Godrej Storewel plain	2010-11	27,895	Good condition
36.	Peacock RTA 111 R chairs	2010-11	26,433	Good condition

Sl No.	Name of the equipment	Year of purchase	Cost (Rs.)	Present status
37.	Godrej T-9 Office Table	2010-11	22,231	Good condition
38.	Sheetal 3 seater perfo chair	2010-11	3,832	Good condition
39.	Peacock RTA-111 R chair	2010-11	13,216	Good condition
40.	Godrej T-104 Table	2010-11	14,221	Good condition
41.	GodrejPCH-7401 Executive leather chair	2010-11	7,921	Good condition
42.	Peacock Podium	2010-11	6,740	Good condition
43.	Ozone Sofa Set Galaxy 3+1+1	2010-11	18,062	Good condition
44.	Godrej coffee table sparkle	2010-11	4,229	Good condition
45.	Godrej glass door storewell	2010-11	17,337	Good condition
46.	Godrej 4 drawer VFC DM Tex SL grey	2010-11	14,702	Good condition
47.	Peacock periodical Rack	2010-11	7,841	Good condition
48.	Geeken GC-953 Restaurant chair (2)	2010-11	2,800	Good condition
49.	Peacock Trainee chair	2010-11	93,504	Good condition
50.	Wall Name plate and pitting brocket	2010-11	7,080	Good condition
51.	Godrej almyrah	2005-06	16,400	Good condition
52.	Godrej rack	2005-06	7,599	Good condition
53.	Kanchana Mixer	2005-06	2,720	Good condition
54.	Fans	2005-06	5,700	Good condition
55.	Chairs	2005-06	9,493	Good condition
56.	Tables	2005-06	48,476	Good condition
57.	Water tank	2005-06	1,500	Good condition
58.	Stool	2005-06	5,625	Good condition
59.	Four door rack	2005-06	10,447	Good condition
60.	Hostel furniture	2005-06	1,00,000	Good condition
61.	Display board with Tripod stand & starter kit	2001-02	11,820	Good condition
62.	Seed Display boards	2009-10	3,400	Good condition
63.	Notice board	2010-11	13,500	Good condition

1.8. Details SAC meeting conducted in 2014-15

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
1.	11-08-2014	49	7	Awareness on importance of pulses in nutritional security	Twenty Front Line Demonstrations planned for 2015-16 under NFSM (Bengal gram and Redgram)
				Conduct residue analysis in Pomegranate Fruits	OFT and FFS Planned for 2015-16
				FLD of proven technology need to be convincing Line depts. staff and farmers	Large scale demonstrations were conducted on ICM in Groundnut, Redgram, Onion, Hebbal Aware (HA-4), Mango, Banana, Pomegranate crops during 2014-15.
				Emphasize on large scale production of Vermi compost.	Compost units of the Farm will be utilized for large scale vermin production.
				Common training calendar may be prepared jointly by KVK and DATC Hiriyur.	Discussed with ADA, DATC, Hiriyur and our plan for 2015-16 is shared with them and care will be taken to avoid duplicity.
				KVK must limit to training programmes to those related to FLD and OFT beside need based and selected sponsored programmes.	Trainings planned as per the PRA and feedback from extension functionaries
				Problems for taking up FLD/OFT should be identified through PRA of cluster villages. Work intensively in these villages for 2 to 3 years on the prioritized problems. Impact of KVK interventions should be measured in terms of extent to which these problems are minimized	New cluster villages were identified through PRA technique. Success stories were documented and impact assessment will be initiated for KVK interventions. Also 11 abstracts sent for KVK seminar to be held at UAS Dharwad.
				Seek permission from ZPD and recruit Farm Manager on contract basis immediately. Simultaneously, initiate action to recruit on permanent.	Under process
				Popularize double cross hybrid in sericulture through demonstration	FLD on double cross hybrid in sericulture was conducted in Hariyabbe cluster during 2014-15.
				Soil test based fertilizer recommendation may be taken as innovative activity	District level workshop is planned and project to conduct in 2015-16. Also an innovative activity of soil test based fertilizer recommendations is being planned for one

Sl. No.	Date	Number of Participants	No. of absentees	Salient Recommendations	Action taken
					village.
				Documentation and maintenance of district agriculture status and other activities	Last ten year data on agriculture and allied activities were collected from respective line department.
				Characteristics of Hebbal Avare HA-4 variety need to be assessed	FLD was implemented in Baramasagara Cluster (at Hampanur village) and different parameters were assessed.
				Conduct compressive demonstration on large scale with line department for wider spreading of the technology.	Large scale demonstrations were conducted on groundnut, Redgram, Bengalgram and Greengram in collaboration with agriculture department during 2014-15. Eg. Dr. Varaprasad Project Director, DOR, participated in the Groundnut Field day at Devarkotta.
				Popularize micro credit facility of NABARD and other nationalized banks.	Through our on campus trainings farmers are sensitized about NABARD linkage for micro finance.
				Sensitize farm women about scientific dairy management practices	Front Line Demonstrations planned for 2015-16.
				Create awareness on DCH castor hybrid through large scale demonstration	Large scale demonstrations were conducted in KVK contact farmer's field during 2014-15 through IFS programme in 10 villages of Hiriyur taluka.
				Intensify the onion seed production through participatory approach	Around 22 quintal seed is being produced through participatory seed production programme at Muddapaura cluster during 2014-15. Same programme through certification is being planned during 2015-16 under FLD.
				Demonstrations/Training about drip irrigation in onion need to be conducted	OFT on onion was conducted using raised bed cultivation through drip irrigation. A demonstration will be taken up at our Farm during 2015-16.
				Popularize the agricultural technologies through electronic media	Regularly sending agriculture information through SMS (Farmers Portal) and actively using mass media for technology dissemination in a wider scale.

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	Agriculture
2	Agriculture + Animal husbandry
3	Agriculture + Horticulture
4	Agriculture + Animal Husbandry+ Horticulture
5	Agriculture + Sericulture + Horticulture + Animal Husbandry

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

S. No	Agro-climatic Zone	Characteristics
1	Central Dry Zone (Zone– IV) of Karnataka	<p>Maximum temperature: 37.7⁰C – April, 2014</p> <p>Minimum temperature: 15.6⁰ C – December, 2014</p> <p>Relative Humidity (RH): 72- 78 per cent</p> <p>Total Geographical Area of the district: 7.70 lakh ha.</p> <p>total cultivable area is 4.05 lakh ha. In this 3.55 lakh ha. (58 %) is under rain fed condition and 0.5 lakh ha (12 %) is under irrigated condition</p>

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in lakh ha
1	Red sandy loam with low rainfall	Soil are low in available nitrogen content, medium in phosphorus and potassium. Organic matter content is low and bulk density is moderate. Water holding capacity is less and soil depth is shallow natured.	1.96
2	Red sandy loam with medium rainfall	Available nutrients are medium in nature, micro nutrients like iron, copper, manganese are medium in nature. Molybdenum, boron and zinc are low. These soils are well drained and suitable for water logging sensitive crops, Low CEC.	1.36
3	Medium to deep black soils with medium rain fall	Soil depth is high (90 cm and above). These soil contain swelling and shrinking property because Montmorillonite clay. These soils are suitable for cotton, maize, jowar, etc. Water holding capacity is more.	2.09

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.	Maize	102692	90454	1353
2.	Paddy	13946	27291	3315
3.	Wheat	1566	2577	2394
4.	Ragi	50728	62706	1005
5.	Jowar	16713	19295	879
6.	Bajra	1508	601	400
7.	Minor millets	4925	2073	292
8.	Redgram	15115	4284	473
9.	Green Gram	4372	383	144
10.	Bengal gram	18801	4192	397
11.	Cowpea	1076	353	327
12.	Field bean	3690	6226	1939
13.	Groundnut	155732	33404	237
14.	Sunflower	13050	17285	432
15.	Castor	1944	846	883
16.	Niger	151	92	346
17.	Sesamum	4176	2196	656
18.	Safflower	523	2581	584
19.	Cotton	16085	7054	289
20.	Arecanut	21694	43388	2000
21.	Coconut	57110	9709	170
22.	Banana	5790	160405	51000
23.	Beetle vine	381	7620	20000
24.	Mango	3438	34380	1000
25.	Sapota	1513	15130	1000
26.	Sweet Orange	728	9734	1337
27.	Papaya	940	72380	77000

S. No	Crop	Area (ha)	Production (Metric tons)	Productivity (kg /ha)
28.	Pomegranate	6911	62199	9000
29.	Water melon	228	7140	31316
30.	Onion	17055	327541	19955
31.	Tomato	2044	29808	21849
32.	Chilly	1511	16621	11000
33.	Brinjal	340	8840	26000
34.	Chrysanthemum	530	7420	14000
35.	Crossandra	338	1660	4911
36.	Tuberose	384	2688	7000
37.	Jasmine	218	1526	7000
38.	Rose	37	37	100

Source : Department of Agriculture & Horticulture , Chitradurga.

2.5. Weather data

Month	Rainfall (mm)	Temperature ⁰ C		Relative Humidity (%)
		Maximum	Minimum	
April -14	31.0	37.7	19.4	66.0
May -14	135.5	36.5	18.3	64.5
June-14	49.4	33.4	18.3	72.0
July-14	66.8	30.4	16.3	79.5
August-14	168.6	30.2	17.8	84.0
September-14	75.8	31.0	20.2	83.0
October-14	159.5	31.7	20.7	80.5
November-14	31.7	29.2	17.5	79.5
December -14	5.6	30.1	15.6	74.0
January-15	0	30.9	16.8	79.0
February-15	0	32.5	17.9	74.0
March-15	0	34.9	18.0	65.5

*Source: JDA office, DoA, Chitradurga

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	34806	6 LPD	10 LPD
<i>Indigenous</i>	239931	1.5 LPD	2 LPD
Buffalo	151895	2 LPD	3 LPD
Sheep	924231		
<i>Crossbred</i>	-	Meat	20 Kg / Animal
<i>Indigenous</i>	-	Wool	1 kg / year
Goats	226696	16 Kg/ Animal	18 KG/ Animal
Pigs	2810		
<i>Crossbred</i>	-	60 Kg/ Animal	80 Kg/ Animal
<i>Indigenous</i>	-	40 Kg/ Animal	60 Kg/ Animal
Rabbits	1465		
poultry	161175		
Hens	-		
<i>Desi</i>	-	60-80 eggs / year	100 eggs / year
<i>Improved</i>	-	280 eggs / year	280 eggs / year
Ducks	18		
Turkey and others			
Fish	7920	-	-

Source: Department of Animal Husbandry

District profile has been Updated for 2014-15 : Yes

2.7 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	Hiriyur	Hiriyur	Samudradahalli,	2 year	Mango	Poor productivity by less fruit set, fruit drop,	Foliar nutrient
		Eshwargere	Devarkotta	2 year	Groundnut	Decreased yield due to low plant population and lack of seed treatment	ICM
		Dindavara	Pilali	2 year	Chilli	Mites, Low yield by local varieties	IPM, Chilli hybrid
		Hiriyur	Thoreobanahally	2 year	Castor	Drudgery, Pod damage, Shortage of labour	Drudgery
		Hiriyur	Hariyabbe	2 year	Groundnut	Non availability of high yielding Groundnut varieties	High yielding variety
2	Challakere	Nayakanahatty	Nelagethanahatty	2 year	Onion	Low bulb yield due to imbalanced fertilizer application and improper plant protection measures	ICM
		Chikkamadhure	Chikkamadhure	2 year	Bengalgram	pod borer and wilt	ICM
		Hirehally	Hirehally	2 year	Onion	Bulb splitting and rotting low yield of local varieties	Improved onion variety
		Challakere	Bommanakunte	2 year	Maize	Non availability of high yielding Maize hybrids	Maize hybrid
3	Hosadurga	S. Neralakere	S. Neralakere	2 year	Cover Crop in Coconut	Weeds, low moisture and fertility	NM
		Chikkabyaladakere	Shivanagar	2 year	Green gram	Yellow mosaic disease and sucking pest	IPM
		Hosadurga	Hunavinadu	2 year	Foxtail millet	Lack of improved variety, low income due to lack of value addition and branding	Branding value addition and market linkage
4	Chitradurga	Kolalu	Kolalu	2 year	Fodder	Non availability of good quality fodder variety	Improved fodder hybrid
		Hampanur	Hampanur	2 year	Field bean	Non availability of photo insensitive varieties	Photo insensitive field bean varieties
		Muddapura	Muddapura	2 year	onion	Non availability of good quality seeds	Seed production
5	Molakalmur	B.G.Kere	B.G.Kere	2 year	Water melon	fruit cracking imbalanced nutrient management	ICM

2.8 Priority thrust areas

Sl. No	Thrust area
1.	Need for Improved varieties & hybrids
2.	Post Harvest and value addition
3.	Pest and disease management
4.	Nutrient management
5.	Weed management.
6.	Dry land Horticultural crops.
7.	Drudgery in shelling of groundnut
8.	Soil and moisture conservation
9.	Utilization of ICT knowledge
10.	Market Intelligence
11.	Input linkage

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
4	3	12	11	19	19	199	199

Seed Production (q.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
Onion (farmers participation)	25	-	-
Chick pea	17		
Foxtail millet	5		

Livestock, poultry strains and fingerlings (No.)		Bio-products (Kg)	
7		8	
Target	Achievement	Target	Achievement
-	4 (Pigglets)	1500	3086.5 (Pseudomonas)
		500	205.5 (Trichoderma)

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
37	36	1185	1155	199	199	35954	33111

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions										
				Title of OFT	Title of FLD	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	Crop improvement	IFS	Mono cropping Component integration	-	Integrated farming system demonstration	1	1	-	-	-	-	-	-	-
2	Value addition & Marketing	Finger millet	Processing, labeling and branding. Market intelligence	-	Branding & Market linkage value added Finger millet products	3	-	1	-	-	-	-	-	--
3	Value addition & Marketing	Tamarind	Low income due to selling of Tamarind directly. Lack of knowledge on importance of value addition, labeling ,packaging and branding	-	Processing & Branding of Tamarind value added products	1	-	-	-	-	-	-	-	--
4	Value addition & Marketing	Processing of Honey	Selling of unprocessed Honey Lack of Knowledge on importance of Branding and packing	-	Branding and market linkage of honey	-	-	-	-	-	-	-	-	-
5	Disease Management	Green gram	Low yield due to yellow mosaic disease	-	Management of yellow mosaic disease in Green gram	-	-	-	1	-	-	-	-	-
6	Crop Management	Red gram	Pod borer, Sterility mosaic virus, wilt disease	-	Integrated crop management in Red gram	1	-	-	1	00.90	-	-	-	-
7	Crop Management	Bengal gram	Pod borer, wilt disease	-	Integrated crop management in Bengal gram	1	-	-	1	03.75	-	-	-	-
8	Disease Management	Chrysanthemum	Leaf blight disease	-	Management of leaf blight in Chrysanthemum	1	-	-	-	--	--	--	--	--
9	Pest and Disease management	Pomegranate	Bacterial disease	-	Integrated management of Bacterial blight in pomegranate	1	-	-	1	-	----	--	--	--
10	Crop improvement	Groundnut	Non availability of high yielding varieties	Assessment of groundnut varieties for higher yield	-	2	-	-	1	02.40	-	-	3	Rhizobium:0.4 PSB:0.4 Trichoderma:0.40

11	Crop improvement	Finger millet	*Lack of awareness on use of suitable finger millet variety *Susceptibility of existing varieties to neck blast and stress condition	-	Introduction ML-365 Finger millet variety for higher yield	1	-	-	1	00.30			3	Azospirillum::1.00 PSB:1.00 Trichoderma: 1.00
12	Crop Management	Maize	*Imbalanced fertilizer application. *Non application of biofertilizers and bio-agents *Non adoption proper spacing	-	Integrated crop management in Maize	2	-	-	1	Maize -00.30 Red gram - 00.15	-	-	3	Azospirillum::1.00 PSB:1.00 Trichoderma: 1.00
13	Fodder production	Lucerne COFS-29 Fodder cowpea South African tall Horsegram	Non availability of good quality fodder Imbalanced nutrition	-	Technology demonstration module in fodder crops	1	-	-	1	COFS-29- 00.25 Lucerne -00.5.0 South African tall 00.25 Cowpea 00.25 Horsegram00.25	-	-	-	-
14	Crop improvement	Onion	Bulb splitting, rotting, Low yield	Assessment of onion varieties.	-	1	1	1	-	-	-	-	-	-
15	Crop improvement	Field Bean	<ul style="list-style-type: none"> Non availability of suitable variety for all seasons Low yield due to local variety 	-	Demonstration of Field Bean Variety Hebbal Avare-4 for Higher Yield	-	-	-	-	-	-	-	-	-
16	Nutrient management	Chrysanthemum	<ul style="list-style-type: none"> Imbalanced nutrient management Flower mall formation by sucking pest and bud borer 	-	Integrated Crop Management in Chrysanthemum	-	-	-	-	-	-	-	3	PSB:4 Trichoderma:4 Pseudomonas:4
17	Nutrient management	Watermelon	Fruit splitting, imbalanced nutrient application	-	Integrated crop management in Watermelon	1	-	-	-	-	-	-	3	PSB:4 Trichoderma:4 Pseudomonas:4
18	Nutrient management	Onion	Imbalanced application of major nutrients (NPK) Lack of awareness on micronutrient application (Zn, B) Non application of gypsum	-	Integrated Nutrient Management in Onion	1	-	1	-	-	-	-	2	PSB:5 Trichoderma:5
19	Crop Management	Groundnut	Lower plant population Lack of seed treatment Non adoption of soil test based fertilizer application Lack of knowledge on Plant protection	-	Integrated Crop Management in Groundnut	--	-	1	1	-	-	-	3	PSB:2 Trichoderma:2 Rhizobium: 2

20	Nutrient management	Banana	Imbalanced application of major nutrients Lack of awareness on split application of major nutrients and also micro nutrients		Integrated Nutrient Management in Banana	1	-	1	1	-	-	-	-	-
21	Cocoon Production	Sericulture	Low yield and poor quality silk cocoon	-	Introduction of Double Cross Hybrid Silkworm	-	-	-	-	-	-	-	-	-

3.B1. Abstract of interventions undertaken based on thrust areas identified for the district as given in Sl. No. 2.7

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 (Specify)
1	2	3	4	5	6	7	8
1	Assessment of Nutrient Management through Fertigation in Banana	NRC Banana, Trichy TNAU,	Banana	6	-	-	-
2	ICM in groundnut	UASB	Groundnut	-	8	1	Field day
3	Nutrient Management in Banana	IIHR	Banana	-	5	2	Field day
4	Integrated nutrient Management in onion	NRC Onion and Garlic Pune and IIHR	Onion	-	5	-	Guest Lecture
5	Integrated farming system demonstration	Location specific	Agri-horti-silvi-pastoral	-	3	4	-
6	Varietal Assessment in groundnut For Higher Yield	UASB, ICRISAT	Groundnut	6	-	1	Filed Day
7	Integrated crop management in Maize	UASB	Maize and Redgram	-	8	2	Filed Day
8	Introduction of ML-365 Finger millet variety for higher yield	UASB	Finger millet	-	8	1	Filed Day
9	Technology demonstration module in fodder crops	UASB, TNAU	Fodder crops	-	10	-	Filed Day
10	Varietal Assessment in Onion For Higher Yield	IIHR, Bangalore & DOGR Pune	Onion	3	-	-	-

S.No	Title of Technology	Source of technology	Crop/enterprise	No.of programmes conducted			
				OFT	FLD	Training	Others (Specify)
1	2	3	4	5	6	7	8
11	Demonstration of Field Bean Variety Hebbal Avare-4 for Higher Yield	UAS B	Field Bean	-	7	-	Field Day
12	Integrated Crop Management in Chrysanthemum	IIHR, Bangalore, UAS B	Chrysanthemum	-	5	-	-
13	Integrated crop management in Watermelon	IIHR, Bangalore	Watermelon	-	8	1	Filed Day
14	Branding & Market linkage value added Finger millet products	UAS(B)	Finger Millet	-	7	3	-
15	Processing & Branding of Tamarind value added products	UAS(B)	Tamarind	-	5	1	-
16	Branding and market linkage of honey	UAS(B)	Honey	-	6	1	-
17	Management of yellow mosaic disease in Green gram	UAS(B)	Green gram	-	8	-	Field day
18	Integrated crop management in Red gram	UAS(B)	Red gram	-	9	1	Field day
19	Integrated crop management in Bengal gram	UAS(B)	Bengal gram	-	6	1	Field day
20	Management of leaf blight in Chrysanthemum	AICRP on Floriculture	Chrysanthemum	-	3	-	-
21	Integrated management of Bacterial blight in pomegranate	NRC, Solapur, UAS(D)	Pomegranate	-	5	1	Field day
22	Demonstration of Double Cross Hybrid Silkworm	UASB	Sericulture	-	2	-	-

3.B2 contd..

No. of farmers covered															
OFT				FLD				Training				Others (Specify)			
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
2	-	-	-	-	-	-	-	21	0	2	0	-	-	-	-
-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
				3		2	-	21	0	2	0	70	-	-	-
				5	-	-	-	-	-	-	-	-	-	-	-
				1	0	1	1	119	9	85	1	-	-	-	-
2	-	-	-	-	-	-		-	30	10	-	90	20	-	-
				5				6	-	25	-	52	-	-	
				5	-	-	-	25	5	-	-	52	-	-	
				5	-	-		7	8	9	6	75	50	-	-
1	0	1	0	-	-	-	-	10	7	0	0	49	0	0	0
				11	0	1	0	15	0	0	0	36	8	0	0
				2	0	3	0	-	-	-	-	27	4	0	0
				11	0	1	0	35	0	10	0	26	18	0	0
-	-	-	-	0	11	0	4	56	56	3	6	-	-	-	-
-	-	-	-	0	12	0	3	0	19	0	3	-	-	-	-
-	-	-	-	9	0	4	0	28	1	12	0	-	-	-	-
-	-	-	-	6	-	7	2	-	-	-	-	28	2	-	-
-	-	-	-	9	-	6	-	12	-	14	-	72	8	-	-
-	-	-	-	9	-	6	-	10	7	-	-	70	5	-	-
-	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-
-	-	-	-	-	-	5	-	41	-	-	-	44	3	-	-

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						1				1
Varietal Evaluation		1			1					2
Total		1			1	1				3

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

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	Banana	Fertigation schedules	2	2	0.12
Varietal Evaluation	Onion	Varietal assessment in onion for higher yield	2	2	0.4
	Groundnut	Varietal Assessment in groundnut For Higher Yield	2	2	2
Total			6	6	2.16

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

Results of On Farm Trial

OFT 1: Varietal Assessment in groundnut For Higher Yield

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	Rainfed	Non availability of high yielding varieties	Assessment of groundnut varieties for higher yield	2	T1-TMV 2 T2:KCG 2 T3-KCG 6 T4-ICGV 91114	Plant height No. of pods /plant, 100 Karnel weight (g) Shelling (%) Pod weight/plant Economics	<table border="1"> <thead> <tr> <th>Varieties</th> <th>Number of pods/plant</th> <th>100 Karnel weight (g)</th> <th>Shellin g (%)</th> <th>Pod weight/plant (g)</th> <th>Pod yield (kg/ha)</th> <th>% increase d yield of KCG-6 over TMV-2</th> </tr> </thead> <tbody> <tr> <td>ICGV-91114</td> <td>35</td> <td>29.9</td> <td>68.4</td> <td>21.9</td> <td>1406</td> <td rowspan="4">34.2</td> </tr> <tr> <td>KCG-2</td> <td>36</td> <td>31</td> <td>69.3</td> <td>22.4</td> <td>1540</td> </tr> <tr> <td>KCG-6</td> <td>39</td> <td>31.9</td> <td>70.6</td> <td>24.3</td> <td>1720</td> </tr> <tr> <td>TMV-2</td> <td>29</td> <td>28.3</td> <td>65.4</td> <td>21.0</td> <td>1282</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Varieties</th> <th><i>Spodoptera litura</i> (Per cent damaged foliage)</th> <th>Thrips (per cent damaged levels)</th> <th>Leaf minor (Per cent)</th> <th>Rust (1-9 scale)</th> <th>Leaf spot (1-9 scale)</th> <th>Collar rot (% damage d plants)</th> </tr> </thead> <tbody> <tr> <td>ICGV-91114</td> <td>3.8</td> <td>9.2</td> <td>7.9</td> <td>3.6</td> <td>3.7</td> <td>1.3</td> </tr> <tr> <td>KCG-2</td> <td>3.4</td> <td>9.0</td> <td>7.2</td> <td>3.3</td> <td>3.5</td> <td>1.0</td> </tr> <tr> <td>KCG-6</td> <td>3.0</td> <td>8.2</td> <td>6.5</td> <td>3.0</td> <td>3.1</td> <td>0.0</td> </tr> <tr> <td>TMV-2</td> <td>8.9</td> <td>11.5</td> <td>11.8</td> <td>9.5</td> <td>10.2</td> <td>4.2</td> </tr> </tbody> </table>	Varieties	Number of pods/plant	100 Karnel weight (g)	Shellin g (%)	Pod weight/plant (g)	Pod yield (kg/ha)	% increase d yield of KCG-6 over TMV-2	ICGV-91114	35	29.9	68.4	21.9	1406	34.2	KCG-2	36	31	69.3	22.4	1540	KCG-6	39	31.9	70.6	24.3	1720	TMV-2	29	28.3	65.4	21.0	1282	Varieties	<i>Spodoptera litura</i> (Per cent damaged foliage)	Thrips (per cent damaged levels)	Leaf minor (Per cent)	Rust (1-9 scale)	Leaf spot (1-9 scale)	Collar rot (% damage d plants)	ICGV-91114	3.8	9.2	7.9	3.6	3.7	1.3	KCG-2	3.4	9.0	7.2	3.3	3.5	1.0	KCG-6	3.0	8.2	6.5	3.0	3.1	0.0	TMV-2	8.9	11.5	11.8	9.5	10.2	4.2		High yielding 2.Less incidence of pest and diseases 3.Good quality of fodder	-	-
Varieties	Number of pods/plant	100 Karnel weight (g)	Shellin g (%)	Pod weight/plant (g)	Pod yield (kg/ha)	% increase d yield of KCG-6 over TMV-2																																																																								
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TMV-2	8.9	11.5	11.8	9.5	10.2	4.2																																																																								

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
ICGV-91114	ICRISAT	1406	kg/ha	33961	2.35
KCG-2	UASB	1540	Kg/ha	39354	2.56
KCG-6	UASB	1720	Kg/ha	46649	2.82
TMV-2	Local	1282	Kg/ha	28954	2.16

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:	Varietal Assessment in groundnut For Higher Yield															
2	Problem Definition	Non availability of high yielding varieties															
3	Details of technologies selected for assessment:	T1-TMV 2,T2:KCG 2 , T3- KCG 6, T-4- ICGV 91114															
4	Source of technology	UASB, ICRISAT															
5	Production system and thematic area	Rainfed and assessment of groundnut varieties															
6	Performance of the Technology with performance indicators																
		Varieties	Number of pods/plant	100 Kernal weight (g)	Shelling (%)	Pod weight/plant (g)	Pod yield (kg/ha)	% increased yield of KCG-6 over TMV-2	<i>Spodoptera litura</i> (Per cent damaged foliage)	Thrips (per cent damaged levels)	Leaf minor (Per cent)	Rust (1-9 scale)	Leaf spot (1-9 scale)	Collar rot (% damaged plants)			
		ICGV-91114	35	29.9	68.4	21.9	1406	34.2	3.8	9.2	7.9	3.6	3.7	1.3			
		KCG-2	36	31	69.3	22.4	1540		3.4	9.0	7.2	3.3	3.5	1.0			
		KCG-6	39	31.9	70.6	24.3	1720		3.0	8.2	6.5	3.0	3.1	0.0			
		TMV-2	29	28.3	65.4	21.0	1282		8.9	11.5	11.8	9.5	10.2	4.2			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	High yielding , 2.Less incidence of pest and diseases, 3.Good quality of fodder															
8	Final recommendation for micro level situation	KCG-6, KCG-2, and ICGV-91114 well compared to local variety TMV-2															
9	Constraints identified and feedback for research	Leaf spot resistance and good quality fodder															
10	Process of farmers participation and their reaction	Farmers expressed that the KCG-6 superior variety and performing well w.r.t to yield, insect and pest resistant and good quality fodder followed by KCG-2 and ICGV-91114															

OFT 2: Varietal assessment in onion for higher yield:

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 splitting, rotting in storage, low yield	Varietal assessment in onion for higher yield	2	Bhima Super, Arka Kalyan, Satara Gurva, Bellary red	Plant height, No. of Leaves per plant, Days to 50% neck fall, Bulb color, Bulb weight Avg .of 10 bulbs, Bulb size, % of sprout bulbs in storage (45 days after) % of rotten bulbs in storage (45 days after), Yield (t/ha)	Variety	Plant height (cms)	No. of Leaves per plant	Days to 50% neck fall	Bulb color	% of sprout bulbs in storage (45 days after)	% of rotten bulbs in storage (45 days after)	Yield (t/ha)	Bhima super is best among the variety assessed	-	-
						Bhima Super	58.5	14	119	Red	12	4	34.4				
						Arka Kalyan	42.3	12	108	Deep Red	16	7	30.7				
						Satara Gurva	57.8	13	115	Red	13	4	28.5				
						Bellary Red	40.1	10	95	Light red	7	2	29.5				

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
Satara Gurva	Farmers Practice	28.5	t/ha	3,56,122.00	5.4
Bellary Red	Farmers Practice	29.5	t/ha	3,71,122.00	5.6
Arka Kalyan	IIHR, Bangalore	30.7	t/ha	3,88,122.00	5.6
Bhima Super	DOGR, Pune	34.4	t/ha	4,43,622.00	6.3

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:	Varietal assessment in onion for higher yield																																														
2	Problem Definition	low yield by local variety, bulb sprouting, bulb rotting																																														
3	Details of technologies selected for assessment:	T1:Bhima Super, T2: Arka Kalyan, T3: Satara Gurva, T4: Bellary red																																														
4	Source of technology	IIHR Bangalore and DOGR Pune																																														
5	Production system and thematic area	Irrigated and assessment of varieties																																														
6	Performance of the Technology with performance indicators	<table border="1"> <thead> <tr> <th>Variety</th> <th>Plant height (cms)</th> <th>No. of Leaves per plant</th> <th>Days to 50% neck fall</th> <th>Bulb color</th> <th>% of sprout bulbs in storage (45 days after)</th> <th>% of rotten bulbs in storage (45 days after)</th> <th>Yield (t/ha)</th> </tr> </thead> <tbody> <tr> <td>Bhima Super</td> <td>58.5</td> <td>14</td> <td>119</td> <td>Red</td> <td>12</td> <td>4</td> <td>34.4</td> </tr> <tr> <td>Arka Kalyan</td> <td>42.3</td> <td>12</td> <td>108</td> <td>Deep Red</td> <td>16</td> <td>7</td> <td>30.7</td> </tr> <tr> <td>Satara Garva</td> <td>57.8</td> <td>13</td> <td>115</td> <td>Red</td> <td>13</td> <td>4</td> <td>28.5</td> </tr> <tr> <td>Bellary Red</td> <td>40.1</td> <td>10</td> <td>95</td> <td>Light red</td> <td>7</td> <td>2</td> <td>29.5</td> </tr> </tbody> </table>							Variety	Plant height (cms)	No. of Leaves per plant	Days to 50% neck fall	Bulb color	% of sprout bulbs in storage (45 days after)	% of rotten bulbs in storage (45 days after)	Yield (t/ha)	Bhima Super	58.5	14	119	Red	12	4	34.4	Arka Kalyan	42.3	12	108	Deep Red	16	7	30.7	Satara Garva	57.8	13	115	Red	13	4	28.5	Bellary Red	40.1	10	95	Light red	7	2	29.5
Variety	Plant height (cms)	No. of Leaves per plant	Days to 50% neck fall	Bulb color	% of sprout bulbs in storage (45 days after)	% of rotten bulbs in storage (45 days after)	Yield (t/ha)																																									
Bhima Super	58.5	14	119	Red	12	4	34.4																																									
Arka Kalyan	42.3	12	108	Deep Red	16	7	30.7																																									
Satara Garva	57.8	13	115	Red	13	4	28.5																																									
Bellary Red	40.1	10	95	Light red	7	2	29.5																																									
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	The results revealed that Bhima super variety performing good w.r.t yield and high net returns compared to other varieties tested																																														
8	Final recommendation for micro level situation	Bhima super and Arka Kalyan perform well compared to local varieties																																														
9	Constraints identified and feedback for research	Bulb splitting and bolting in onion																																														
10	Process of farmers participation and their reaction	Farmers expressed that the Bhima super variety id performing well w.r.t to yield, colour, size and good keeping qualities followed by Arka Kalyan																																														

4.D1. Results of Technologies Refined : Nil

4.D.2. Details of each On Farm Trial for refinement to be furnished in the following format separately as per the following details: 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	Oil seeds	Rain fed	Kharif	Ground nut	TMV-2	-	Crop Management	Seed Treatment using seed treatment drum: <i>Trichoderma</i> , PSB, <i>Rhizobium</i> and Chloropyrifos Chloropyrifos: 15 ml/kg seed Soil test based Fertiliser application Recommended dosage: 25-50-25 kg N, P ₂ O ₅ , K ₂ O and Modified:25:62.5:25 <i>Gypsum application @ 500 kg/ha</i> Sowing with Tractor drawn seed drill PP measures: Lamda Cyhalothrin spray for control of leaf minor@ 1ml/litre Carbendizim @1 g/litre	2.5	2.5	0	2	2	-
2	Pulses	Rainfed	Kharif - 2014	Green gram	BGS-9	-	IPDM	Seed treatment with <i>Rhizobium</i> , PSB and <i>Trichoderma</i> Insect vector management	6	6	9	6	15	--
3		Rainfed	Kharif - 2014	Red gram	BRG -2	-	ICM	Seed treatment with <i>Rhizobium</i> , PSB & <i>trichoderma</i> . Adoption of IPM practices	6	6	6	9	15	--
4		Rainfed	Rabi-2014	Bengal gram	JG -11	-	ICM	Seed treatment with <i>Rhizobium</i> , PSB and <i>Trichoderma</i> Adoption of IPM practices	6	6	6	9	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	
5	Cereals	Rainfed	Kharif-2014-15	Maize	Hybrid	-	Higher yield Resistant to TLB. Stem borer	1.Introduction of new maize hybrid – Hema (NAH-1137) 2.Check hybrid : Ganga kaveri-244 3. Biofertilizers- Azospirillum & PSB , Biopesticide- Trichoderma 4. Use of micronutrients (10 kg ZnSo ₄) 5. Herbicide : 2.5 kg Atrazine /ha 6. RDF-150:75:40 kg NPK+ 10 t FYM/ha 7. 19:19:19 fertilizer sprayed at 35 DAS	10 demo	10 demo	2	8	10	-
6	Millets	Rainfed	Kharif, 2014-15	Finger millet	Variety	-	Higher yield Resistant to neck blast	1.Introduction of new variety –ML-365 2.Biofertilizers- Azospirillum and PSB, Biopesticide- Trichoderma 3.RDF-50:40:25 NPK/ha	10 demo	10 demo	3	7	10	-
7		Rain fed	Rain fed	Finger millet	Local	-	Value addition	Method demonstration on preparation of quality value added products of Finger millet FSSAI Licensing and Branding Nutritional Labeling Market linkage	1 SHG	1 SHG	4	11	15	
8	Vegetables	Irrigated	Kharif	Onion	Satara	-	Crop Management	FYM @ 30 t/ha Bio inputs: PSB 1 kg/t FYM enrichment Balanced application of major nutrients (NPK: 125:50:75 kg/ha) Micronutrient application	2.5	2.5			5	

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	
								(Zn @ 10 kg/ha, B @2.5 kg) Application of gypsum (50 kg) Source: NRC onion and Garlic and IIHR B'lore						
9		Irrigated	Rabi-2014	Water melon	-	Hachi Vichi	Integrated Crop Management	Foliar application of Arka Vegetable special + RDF + soil application of Trichoderma and Pseudomonas	5	5	1	11	12	
10		Irrigated	Rabi-2014	Field Bean	-	HA-4	Demonstration of Field bean variety Hebbal Avare-4 for higher yield	Soil test based RDF FYM 20 t/ha Soil health analysis before and after the crop Introduction of photo insensitive Hebbal Avare-4 variety suitable for all season	5	5	1	11	12	
11	Flowers	Irrigated	Kharif - 2014	Chrysanthemum	Chandani	--	IPDM	Use of Fungicide – Chlorothalonil - 2g/l	2	2	5	0	5	--
12		Irrigated	Rabi-2014	Chrysanthemum	-	Chandani local	Integrated crop management in Chrysanthemum	Soil test based RDF, FYM-25 t/ha Micronutrients: Soil application of ZnSO4 and Borax Use of Bio-inputs: Soil application of Trichoderma, PSB, Pseudomonas Chemical spray of Methyl parathion 1ml/L	2.5	2.5	3	2	5	
13	Fruit	Irrigated	Kharif-2014	Pomegranate	Bhagavata	-	IPDM	Integrated management of bacterial blight in pomegranate	2	2	5	0	5	--
14		Irrigated	All seasons	Banana	Local-Putta Bale	-	Nutrient Management	Balanced application of major nutrients Split application of major nutrients and foliar application of micro	2.5	2.5	2	3	5	-

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	
								nutrients: Banana special :75 g/15 l water+ lemon juice+ shampoo Application of SoP: 2 g/litre for bunch only						
15	Fodder	Rainfed	Kharif-2014-15	Fodder	Fodder crops	-	Balanced nutrition Good quality fodder	T1-Lucerne T2:COFS-29 T-3- Fodder cowpea T-4- Horse gram T5- South African tall	5 demo	5 demo	-	5	5	-
16	Plantation	Rainfed	Kharif -	Tamarind	Local	-	Value addition	Value addition in tamarind FSSAI Licensing and Branding Packing and Labeling Market linkage	1 SHG	1 SHG	4	11	15	
17	Sericulture	irrigated	Kharif and Rabi	Mulberry	-	Double cross	Sericulture	Introduction of Double cross hybrid						
18	Apiculture	Rainfed	Kharif and Rabi	Honey	Local		Small scale Income generating enterprises	1.Strengthening techniques of Farmers associations 2. Importance of Income generating activities in Agriculture 3. Imparted Skill oriented training on Hygienic Honey production 4. Branding techniques 5. Packing & Nutritional labeling techniques 6. Marketing techniques	1 Honey growers Association	1 Honey growers Association	4	9	13	
19	Integrated farming system	-	All seasons	Farming System	-	-	Agri-horti-silvi-pastoral	Component integration Introduction of improved varieties	0.80	0.80	2	1	3	

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	Kharif 2014	Groundnut	TMV-2	-	Crop Management	Seed Treatment using seed treatment drum: <i>Trichoderma</i> , PSB, <i>Rhizobium</i> and Chloropyrifos Chloropyrifos: 15 ml/kg seed Soil test based Fertiliser application Recommended dosage: 25-50-25 kg N, P ₂ O ₅ , K ₂ O and Modified:25:62.5:25 <i>Gypsum application @ 500 kg/ha</i> Sowing with Tractor drawn seed drill PP measures: Lamda Cyhalothrin spray for control of leaf minor@ 1ml/litre Carbendizim @1 g/litre	Khari f 2014	M	L	M	Groundnut
2	Pulses	Rainfed	Kharif - 2014	Green gram	BGS-9	-	IPDM	Seed treatment with <i>Rhizobium</i> , PSB and <i>Trichoderma</i> Insect vector management	Khari f - 2014	L	L	H	Ragi
3		Rainfed	Kharif - 2014	Red gram	BRG -2	-	ICM	Seed treatment with <i>Rhizobium</i> , PSB & <i>trichoderma</i> . Adoption of IPM practices	Khari f - 2014	L	L	M	Maize
4		Rai	Rabi-	Bengal	JG -11	-	ICM	Seed treatment with	Rabi-	M	M	H	Onion

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	
		rainfed	2014	gram				Rhizobium, PSB and Trichoderma Adoption of IPM practices	2014				
5	Cereals	Rainfed	Khariif2014-15	Maize	BRG-2	Hema NAH 1137	Hybrid Introduction	1. Introduction of new maize hybrid – Hema (NAH-1137) 2. Check hybrid : Ganga kaveri-244 3. Biofertilizers- Azospirillum & PSB , Biopesticide- Trichoderma 4. Use of micronutrients (10 kg ZnSo ₄) 5. Herbicide : 2.5 kg Atrazine /ha 6. RDF-150:75:40 kg NPK+ 10 t FYM/ha	Khariif, 2014-15				Groundnut
6	Millets	Rrainfed	Khariif2014-15	Finger millet	ML-365	-	Introduction of new variety	1. Introduction of new variety –ML-365 2. Biofertilizers- Azospirillum and PSB, Biopesticide- Trichoderma 3. RDF-50:40:25 NPK/ha	Khariif, 2013-14	L	M	L	Fallow
7	Vegetables	Irrigated	Khariif	Onion	Satara	-	Crop Management	FYM @ 30 t/ha Bio inputs: PSB 1 kg/t FYM enrichment Balanced application of major nutrients (NPK: 125:50:75 kg/ha)	Khariif	L	L	M	

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	
								Micronutrient application (Zn @ 10 kg/ha, B @2.5 kg) Application of gypsum (50 kg) Source: NRC onion and Garlic and IIHR B'lore					
8		Irrigated	Rabi-2014	watermelon	-	Hachivichi	Nutrient management	Foliar application of vegetable special + RDF + soil application of Trichoderma and pseudomonas	Rabi-2014	L	M	M	Ground nut
9		Irrigated	Rabi-2014	Field bean	HA-4	-	Crop improvement	<ul style="list-style-type: none"> • Soil test based RDF • FYM 20 t/ha • Soil health analysis before and after the crop • Introduction of photo insensitive Hebbal Avare-4 variety suitable for all season 	Rabi-2-14	L	L	M	Ragi
10	Flowers	Irrigated	Kharif - 2014	Chrysanthemum	Chandani	--	IPDM	Use of Fungicide – Chlorothalonil - 2g/l	Khari f – 2014	L	L	L	Chrysanthemum
11		Irrigated	Rabi-2014	Chrysanthemum	Chandani local	-	Nutrient management	Soil test based RDF, FYM-25 t/ha Micronutrients: Soil application of ZnSO ₄ and Borax Use of Bio-inputs: Soil application of Trichoderma, PSB, Pseudomonas	Rabi-2-14	L	L	M	Ground nut

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	
								Chemical spray of Methyl parathion 1ml/L					
12	Fruit	Irrigated	Kharif-2014	Pomegranate	Bhagava	-	IPDM	Integrated management of bacterial blight in pomegranate	Khari f-2014	M	M	L	Cotton
13		Irrigated	All seasons	Banana	Local-Putta Bale	-	Nutrient Management	Balanced application of major nutrients Split application of major nutrients and foliar application of micro nutrients: Banana special :75 g/15 l water+ lemon juice+shampoo Application of SoP: 2 g/litre for bunch only	All seasons	M	M	H	
14	Fodder	Rainfed	Kharif2014-15	Lucerne COFS-29 Fodder cowpea Horse gram South African tall	Lucerne COFS-29 Fodder cowpea Horse gram South African tall	-	Balanced nutrition Good quality fodder	Lucerne COFS-29 Fodder cowpea Horse gram South African tall	Khari f,2013-14	L	L	M	Fodder
15	Farming system	Semi irrigated	2014-15	Agri-Silvi-Horti-Pastoral	ML-365 Arka kalyana Arsikere tall Cricket ball	-	Integrated farming system	Fodder slips- Co-3 Bio agents Coconut and sapota grafts Mineral mixture Apiculture and RDF	2014-15	L	M	M	Groundnut and ragit

5.B. Results of Frontline Demonstrations

5.B.1. Crops

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demos.	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	ICM in Groundnut	TMV-2	-	Rainfed	2	2.5	14.25	13.66	13.95	9.50	46	55820	22500	33320	2.48	38000	20000	18000	1.90
Pulses	IPM in green gram for Yellow Mosaic disease.	BGS-9	--	Rainfed	15	6	5.87	3.25	4.26	3.42	24.6	9300	19596	10296	2.11	8600	15732	7332	1.82
	IPM in redgram	BRG-2	--	Rainfed	15	6	22.1	12.6	17.6	14.1	24.55	13250	66880	53630	5.04	12300	53694	41394	4.36
	IPM in Bengalgram	JG-11	--	Rainfed	15	6	16.25	10	13.42	10.48	28.05	13200	50996	37796	3.86	12400	39824	27424	3.21
Cereals	Integrated crop management in Maize	BRG-2	Hema NAH 1137	Rainfed	10	5	86.1	83.4	84.8	69.1	22.7	44456	110266	65810	2.48	44070	89936	45866	2.04
Millets	Introduction ML-365 Finger millet variety for higher yield	ML-365	-		10	5	30.5	26.4	28.5	23.6	20.7	20007	57000	36993	2.85	19226	47200	27974	2.46
Finger millet	Value addition. Branding, Labeling Licensing Market linkage	Local	-	Rainfed	1	1 SHG(15 farm women)	-	-	-	-	-	4450	14000	9550	3.14	950	2000	1050	2.10
Vegetables	ICM in Onion	Satara	-	Irrigated	5	2.5	21	20.25	21.0	15.0	45.80	168500	50500	118000	3.34	120000	57000	63000	2.11
	ICM in watermelon	-	Hachivichi	Irrigated	12	5	52 (t/ha)	45 (t/ha)	48.6 (t/ha)	43.3 (t/ha)	11.9	75,350	2,43,000.00	1,67,650.00	2.22	74,350.00	2,16,500.00	1,42,150.00	1.91

Crop	Name of the technology demonstrated	Variety	Hybrid	Farming situation	No. of Demos.	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										
	Demonstration of Field Bean Variety Hebbal Avare-4 for higher yield	HA-4	-	Irrigated	12	5	9.5 t/ha	5.8 t/ha	7.5 t/ha	5.4 t/ha	38.8	40,550.00	1,50,000.00	1,09,450.00	2.69	35,600.00	1,08,000.00	72,400	2.03
Flowers	Use of Fungicide – Chlorothalonil - 2g/l	Chandani	--	Irrigated	5	2	11.75	6.25	8.71	6.82	27.55	68200	200500	132300	2.94	66700	133100	66400	1.98
	ICM in Chrysanthemum	Chandini local	-	Irrigated	5	2.5	10 t/ha	6.4 t/ha	8.2 t/ha	6.7 t/ha	22.38	55,000.00	2,05,000.00	1,50,000.00	2.72	47,500.00	1,67,000.00	1,19,500.00	2.51
Fruit	Integrated management of bacterial blight in pomegranate	Bhagava	--	Irrigated	5	2	10.7	10.7	10.7	7.67	39.60	142000	582000	440000	4.10	106000	255000	149000	2.41
	Integrated Nutrient Management in Banana	Local Putta Bale	-	Irrigated	5	2.5	26.40	16.25	21	14	50	543788	72500	471288	7.50	349031	73000	276031	4.78
Entrepreneurship	Value addition in tamarind FSSAI Licensing and Branding Packing and Labeling Market linkage	-	-	-	1 SHG	-	-	-	-	-	-	4000	9000	5000	2.25	2000	3000	1000	1.5

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Incidence of yellow mosaic disease (%)	9.61	28.80
Number of pods per plant(No's)	22	13

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**Red gram**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any
Incidence of pod borer per plant (%)	7.46	11.84
Number of pods per plant(No's)	574	509

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**Bengal gram**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any
Incidence of pod borer per plant (%)	3.12	6.42
Number of pods per plant(No's)	93	76

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**Chrysanthemum**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any
Incidence of disease (%)	9.84	38.2
Number of flowers per plant(No's)	92	74

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**Pomegranate**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check if any
Incidence of disease (%)	12.24	41.62
Weight of fruits (gm)	254.60	202.82

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

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo ()	Check()
Consumer acceptability (%)	55	92
Marketability	Very Good	Good
Employment generation (Man days)	2	1

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**Branding of Tamarind**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Consumer acceptability (%)	86	32
Marketability	Good	Fair
Employment generation (Man days)	2	1

Data on additional parameters other than yield (viz., reduction of percentage diseases, effective use of land etc.)**Branding of Honey**

Data on other parameters in relation to technology demonstrated		
Parameter with unit	Demo	Check
Consumer acceptability (%)	96	87
Marketability	Excellent	Good
Employment generation (Man days)	1.5	1

* 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.2. Livestock and related enterprises : Nil

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

** BCR= GROSS RETURN/GROSS COST

Data on additional parameters other than yield (viz., reduction of percentage diseases, increase in conceiving rate, inter-calving period etc.)**5.B.3. Fisheries: Nil****5.B.4. Other enterprises : nil**

* 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

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

** BCR= GROSS RETURN/GROSS COST

5.B.6. Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	9	1672	
2	Farmers Training	47	1814	
3	Media coverage	51	-	
4	Training for extension functionaries	7	119	
5	Others (Please specify)			

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)				% 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										
Vegetable crops (Water melon)	Foliar application arka vegetable special + RDF + soli application of Trichoderma and pseudomonas	Hatchi Vitchi	12	5	52 (t/ha)	45 (t/ha)	48.6 (t/ha)	43.3 (t/ha)	11.9	75,350.00	2,43,000.00	1,67,650.00	2.22	74,350.00	2,16,500.00	1,42,150.00	1.91
Commercial	Introduction of Double Cross Hybrid Silkworm	Double Hybrid (CSR-6XCSR26)(X)CSR-2XCSR-27)-	11	10	82kg/100 DFLS	72kg/100 DFLS	72kg/100 DFLS	62kg/100 DFLS	24.2	10680	38500	27820	3.6	9950	31000	21050	3.1

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										
Cropping Systems	2	47	4	51	5	1	6	52	5	57
a) Vegetable Crops										
Production of low value and high volume crop	1	15	0	15	3	0	3	18	0	18
Off-season vegetables										
Nursery raising	1	19	0	19	5	0	5	24	0	24
Soil Health and Fertility Management										
Integrated nutrient management	1	19	2	21	0	0	0	19	2	21
Nutrient use efficiency	1	20	0	20	2	0	2	22	0	22
Livestock Production and Management										
Dairy Management	1	22	0	22	4	0	4	25	0	25
Home Science/Women empowerment										
Value addition	1	18	30	48	0	0	0	18	30	48
Women empowerment	1	29	2	31	9	1	10	38	3	41
Women and child care	2	0	14	14	0	18	18	0	32	32
Plant Protection										
Integrated Pest Management	1	41	0	41	0	0	0	41	0	41
Integrated Pest and Disease Management	1	11	0	11	14	0	14	25	0	25
Integrated Disease Management	1	10	7	17	0	0	0	17	0	17
Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	5	67	0	67	33	0	33	100	0	100
Agro-forestry										
Nursery management	1	15	0	15	13	0	13	28	0	28
Market intelligence	1	8	7	15	8	1	9	16	8	24
TOTAL	21	341	66	407	96	21	117	443	80	523

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										
Cropping Systems	5	162	17	179	68	1	69	230	18	248
b) Fruits										
Cultivation of Fruit	1	35	0	35	10	0	10	45	0	45
d) Plantation crops										
Production and Management technology	1	15	0	15	0	0	0	15	0	15
Soil Health and Fertility Management										
Soil fertility management	1	17	0	17	0	0	0	17	0	17
Integrated water management										
Integrated nutrient management	1	63	0	63	0	0	0	63	0	63
Production and use of organic inputs										
Management of Problematic soils	1	18	2	20	0	0	0	18	2	20
Home Science/Women empowerment										
Processing	2	36	19	55	5	3	8	41	22	63
Gender mainstreaming through SHGs	2	4	38	42	0	0	0	4	38	42
Storage loss minimization techniques										
Value addition	1	0	26	26	0	6	6	0	32	32
Women empowerment	1	0	69	69	0	17	17	0	86	86
Agril. Engineering										
Farm machinery and its maintenance	1	51	0	51	0	0	0	51	0	51
Plant Protection										
Integrated Pest Management	1	93	16	109	0	0	0	93	16	109
Production of Inputs at site										
Mushroom production	1	27	0	27	0	0	0	27	0	27
Apiculture	1	34	0	34	1	0	1	35	0	35
TOTAL	20	555	187	742	84	27	111	639	214	853

7.C. Training for Rural Youths 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
Nursery Management of Horticulture crops	1	15	0	15	13	0	13	28	0	28
Entrepreneurship through Farm Mechanization	5	67	0	67	33	0	33	100	0	100
TOTAL	6	82	0	82	46	0	46	128	0	128

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 Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	1	35	2	37	0	0	0	35	2	37
Integrated Pest Management	1	25	8	33	0	0	0	25	8	33
Women and Child care	1	0	14	14	0	18	18	0	32	32
Total	3	60	24	84	0	18	18	60	42	102

7.F. Training programmes for Extension Personnel 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
Integrated Nutrient management	1	19	10	29	0	0	0	19	10	29
Integrated diseases Management	1	34	8	42	0	0	0	34	8	42
Capacity building for ICT application	1	35	13	48	0	0	0	35	13	48
Total	3	88	31	119	0	0	0	88	31	119

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
12	Agricultural Extension										
12.b.	Others										
	Entrepreneurial development of farmers/youths	5	67	0	67	33	0	33	100	0	100
	Nursery management	1	15	0	15	13	0	13	28	0	28
	Total	6	82	0	82	46	0	46	128	0	128

Details of sponsoring agencies involved

1. Panchayath Raj & Rural Development (GoK)
2. Coconut Development Board
3. Department of Horticulture, Chitradurga
4. Department of Agriculture, Chitradurga

7.H. Details of Vocational Training Programmes carried out by KVKs 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
5	Agricultural Extension										
5.b.	Others (pl.specify)										
	Entrepreneurial development of farmers/youths	5	67	0	67	33	0	33	100	0	100
	Nursery management	1	15	0	15	13	0	13	28	0	28
	Grand Total	6	82	0	82	46	0	46	128	0	128

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	9	-	-	-	-	-	-	-	-	924
Kisan Mela	1	-	-	-	-	-	-	-	-	1846
Exhibition	6	-	-	-	-	-	-	-	-	8500
Film Show	10	-	-	-	-	-	-	-	-	294
Method Demonstrations	17	-	-	-	-	-	-	-	-	327
Farmers Seminar	1	-	-	-	-	-	-	-	-	700
Workshop	5	-	-	-	-	-	-	-	-	219
Group meetings	25	-	-	-	-	-	-	-	-	420
Lectures delivered as resource persons	117	-	-	-	-	-	-	-	-	6880
Newspaper coverage	44	-	-	-	-	-	-	-	-	-
Radio talks	7	-	-	-	-	-	-	-	-	-
Popular articles	12	-	-	-	-	-	-	-	-	-
Extension Literature	22	-	-	-	-	-	-	-	-	1650
Advisory Services	1477	-	-	-	-	-	-	-	-	1807
Scientific visit to farmers field	324	-	-	-	-	-	-	-	-	624
Farmers visit to KVK	1907	-	-	-	-	-	-	-	-	1907
Diagnostic visits	6	-	-	-	-	-	-	-	-	92
Exposure visits	5	-	-	-	-	-	-	-	-	122
Animal Health Camp	1	69	0	69	0	0	0	69	0	69
Agri mobile clinic	92	-	-	-	-	-	-	-	-	5045
Self Help Group Conveners meetings	11	0	181	181	0	109	109	0	290	290
Mahila Mandals Conveners meetings	3	0	32	32	0	15	15	0	47	47
1. World Environment Day	1	-	-	-	-	-	-	-	-	422
2. Independence Day	1	-	-	-	-	-	-	-	-	52
3. Gandhi Jayanthi	1	-	-	-	-	-	-	-	-	23
4. Technology week	1	-	-	-	-	-	-	-	-	327
5. Youths Day	1	29	2	31	9	1	10	30	11	41
6. Ozone Day	1	92	80	172	0	0	0	92	80	172
7. World Food day	1	156	-	-	-	-	-	-	-	156
8. Farmers day	1	51	-	-	-	-	-	-	-	51
9. International Women's Day	1	89	15	104	0	0	0	89	15	104
Total	4111	486	310	589	9	125	134	280	443	33111

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
Vegetables	Onion	Arka Kalyan	-	25	Farmers Participation	8
Pulses	Chick pea	JG 11		17	110000	On Farm
Cereals	Foxtail millet	HMT 100-1		5	6500	On Farm
Total				47	116500	

9.B. Production of planting materials by the KVKs: Nil

9.C. Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	Number of farmers to whom provided
Bio Agents	Trichoderma	205.5	16440	27
	Pseudomonas (Powder)	3086.5	277785	224
Total		3292	294225	251

9.D. Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	Number of farmers to whom provided
Piggery				
Piglet	Pink York Shier	4		-
Total		4		

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

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

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

(B) Literature developed/published

Item	Title	Authors name	Number
Research papers	Effect of climate change on agriculture and livestock as perceived by the farmers of Karnataka	Gajendra, T. H., S.L. Patil, Nagaratna Biradar and Manjunath, L. 2014,	1
	Farmers Views on Mango Post Harvest Management	Gajendra, T. H., S. S. Kotresha, P. Arun Kumar, E. S. Rakesh, and L. Manjunath	1
	Farmer's Suggestion Measures to Changing Climate in Karnataka	Gajendra, T. H., Sudheendra,, M., Manjunath, L. and Nagaratna Biradar	1
	Knowledge Level of Women Dairy Entrepreneurs about Improved Dairy Management Practices.	P. Arun Kumar, S. K. Meti, T. H. Gajendra E. S. Rakesh, and K. S. Akhilesh.,	1
	A Study on Socio – Economic Profile of MGNREGS Beneficiaries,	Kotresha, S., Sudheendra, M., Ananthnag, Gajendra,T.H. and Girisha, K.,	1
	201 Impact of Organic Nutrient Management Practices on yield, quality parameters, Energy use efficiency and Energy productivity of Cotton	Rudragouda.F. Channagouda.,	1
	Impact of organic farming practices on soil microbial population in cotton	Rudragouda .F. Channagouda H.B.Babalad and Praksh Kerure	1
	Effect of organic manures, green manures and liquid organic manure on yield, economics, energy use efficiency and energy productivity in cotton	Rudragouda.F. Channagouda, H.B. Babalad and P.S. Ajjappalavara ³	1
	Organic farming practices on yield and yield parameters of cotton	Rudragouda F.Channagouda, Thimmanna and Nataraj	1
	Extension of cotton growth under organic production system	Rudragouda F.Channagouda, Thimmanna and Nataraj	1
	Performance of cotton under organic production system	R.Fchannagoudar, H.B.Babalad, R.K Pati,	1
	Socio economic profile of the women Entrepreneurs, A study in Bangalore	Rooparani M.S, Revanna M.L., and Sudharani N.	1
	Evaluation & studies on effect of Gibberlic acid on growth and yield of Anthurium	Anjali K.B., Akshay K.R, & Sudharani N	1

Item	Title	Authors name	Number
	Product diversification in Floriculture	Anjali K. B. and Sudharani N.,	1
	Factors influencing secondary metabolite synthesis in medicinal and aromatic crops	Sudharani N. and Srikanth H.S.,	1
	Biodiversity and strategies for conservation of rare, endangered and threatened medicinal plants	Akshay K.R., Anjali K.B & Sudharani N	1
	Potassium dynamics under saline soil;s	Subnhash, Salimath	
Technical reports	Potassium dynamics under saline soil;s	Subnhash, Salimath	
Technical bulletins			
Popular articles	Badukige tiruvunidida jenunonnagalu	Gajendra T.H, Rudragouda F Channagouda and D Chandrappa	
	Savayava krishi antarik marukate and raptu avkasagallu	Rudragouda F Channagouda, Gajendra T.H and D Chandrappa	
	Sayava krishi mahatva,tatavagallu mattu utpadana paddatigalu	Sharanappa Jaghandi, R F Channagouda, Nataraj. O and D.Thimmanna	
	Ash gourd a Health Rejuvinator	Sudharani N and Divyajyothi U. ,	
	Poushtika Kithitadinda poshana subhadrate, V11, Issue10, Krishimitra, July 2014	Sudharani N, Divya Jyothi U and Geethakumari,	
	Raitara mahatvakanksheya jaivika peede nashaka-trichoderma	Divyajyothi U and Sudharani N,	
	Sanna raitarigagi samagra krishige pooraka miinu sakanike	Sudharani N, Divya jyothi U.,	
	Role of Commodity based Association in the community	Divyajyothi Sudharani N and.,	
	Bidipushpagalalli Sasyachodakagala balake	Anjali K.B. and Sudharani N.,	
	All Spice- an effective substitute for clove, nutmeg and cinnamon	Sudharani N and Akshay K.R.,	
	Green roofs	Sudharani N. and Anjali K.B.,	
	Nematode interaction with soil micro organisms	Divyajyothi U and Sudharani N.,	
Extension literature			
flets/Folders	Agronomic practices for fodder production	Rudragouda Channagouda, Sudharani N, Divyajyoti and Geetakumari B.N,	

Item	Title	Authors name	Number
	Mishratali rasugalige suarita besaya kramaalu.	Gajendra,T.H., Rudragoud F Channagouda, S.B Salimath, S Onkarappa, Prakash Kerur, Sudharani. N,	
	Agronomic practices for foxtail millet	Sudharani N , S. Onkarappa, Divyajyoti , Rudragouda Channagouda and Geetakumari B.N,	
	Improved Agronomic practices for groundnut production.	Rudragoud F Channagouda, S.B Salimath, Gajendra T H, S Onkarappa, Prakash Kerur, Sudharani. N, Geetakumari. B.N and Divvyajyoti.U	
	Improved Agronomic practices for Onion production	Rudragoud F Channagouda, Prakash Kerur, S.B Salimath, Gajendra T H, S Onkarappa, , Sudharani. N, Geetakumari. B.N and Divvyajyoti. U,	
	Role of Apiculture in sustainable Agriculture	Sudharani N , S. Onkarappa and Divyajyoti ,	
	Mushroom cultivation for self employment generation,	Earanna, Sudharani N , Gajendra T H and Divvyajyoti. U ,	
g) Training h) Manuals:	Mevin belegala smagra utptana tantrikategalu.	Rudragouda F Channagouda, Sudharani N, Gajendra T H, Salimath, Onkarappa and Prakash Kerur	
	Musukin joladalli smagra utptana tantrikategalu	Rudragouda F Channagouda, , Gajendra T H, Onkarappa, Salimath, ,Prakash Kerur, and Sudharani N,	
	Ragiylli taligala parichaya mtftu smagra utptana tantrikategalu	Rudragouda F Channagouda, , Gajendra T H, Salimath, Onkarappa ,Prakash Kerur, and Sudharani N,	
	Jaivika bijopacharagala mahatva	Rudragouda F Channagouda, , Gajendra T H, Salimath, Onkarappa ,Prakash Kerur, and Sudharani N,	
	Hatti yalli samagra poshakasgala nirvane	S.B Salimath, , Onkarappa, Rudragouda F Channagouda , Gajendra T H Prakash Kerur, and Sudharani N	
	Sayava krishi mahatva,tatavagallu mattu utpadana paddatigalu	Rudragouda F Channagouda, , Gajendra T H, Salimath, Onkarappa ,Prakash Kerur, and Sudharani N,	
	FOCT- palm climbing an plant protection	Gajendra T H, Prakash Kerur, Rudragouda F Channagouda, Onkarappa, Salimath, and Sudharani N,	
	Sudarita hainugarike paddatigalu	Gajendra T H, Prakash Kerur, Rudragouda F Channagouda, Onkarappa, Salimath, and Sudharani N,	
	Savayava krishi mattu marukatte	Gajendra T H, Prakash Kerur, Rudragouda F Channagouda, Onkarappa, Salimath, and Sudharani N,	
	Chitradurga jillege suktavada samagra krishi paddatigalu	Gajendra T H, Prakash Kerur, Rudragouda F Channagouda, Onkarappa, Salimath, and Sudharani N,	

Item	Title	Authors name	Number
	Job orient training programme on horticultural crops for rural youth.	Prakash Kerure, Rudragouda F.Channagouda,Onkarappa.S and S. M. Salimth,	
	Swavalambi jeevanakkagi Anabe krushiya utpadana tanthrikathegalu hagu Moulyavardhane.	Sudharani N, Onkarappa S, Divyajyothi, S.Salimath, Prakash kerure, Rudragouda F Channagouda and Gajendra T.H,	
	Poshana bhadrteyalli Poustika Kithota hagu taraci totagala nirvahana kipidi.	Sudharani N, Divyajyothi, S.Salimath, Onkarappa S, Prakash kerure, Rudragouda F Channagouda and Gajendra T.H	
	Raitha mahileyarigagi Adayotpanna chatuvatikegala mahiti kipidi.	Sudharani N, Divyajyothi, S.Salimath, Onkarappa S, Prakash kerure, Rudragouda F Channagouda and Gajendra T.H,	
	Mahile hagu makkaligagi Arogya kipidi.	Sudhrani N, S.Salimath, Onkarappa S, Prakash kerure, Rudragouda F Channagouda and Gajendra T.H	
Poster preparation – (Digital photo print)	Dalimbeyalli dundanu angamari rogada laksanagalu	All SMS	
	Dalimbeyalli dundanu angamari rogada niyantrana	All SMS	
	Dalimbeyalli nusi bade laksanagalu hagu tadegattuvike	All SMS	
	Dalimbeyalli maulyavardita utpannagalu	All SMS	
	Dalimbeyalli sorau roga mattu niyantrana	All SMS	
	Dalimbeyalli moulyavardita utpannagalu	All SMS	
	Dalimbeyalli buda koreyuva hulu nirvahane	All SMS	
	Savayava Krishi tatvagalu	All SMS	
	Shenga beleya suarita besaya paddatigalu	All SMS	
	Musukina jolada sudarita besaya paddatigalu	All SMS	
	Erulliyalli taligalu mattu sudarita besaya paddati	All SMS	
Newsletter	Vol (3) April to June,2014	Gajendra T H, Prakash Kerur, Rudragouda F Channagouda, Onkarappa, Salimath, and Sudharani N,	

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).

**Apiculture Booming in Agricultural Enterprises: A case of ICAR-Krishi Vigyan Kendra, Hiriyur Intervention.
Gajendra T.H. Sudharani, N. Salimath, S.B. and Rudragouda C F Onkarappa, S and Prakash Kerure**

Integrated farming system project was demonstrated in Mr. Byreshappa, contact farmer of KVK, Hiriyur. Who's residence is at G. Vaderahally, Holalkere Tq., Chitradurga District.

This project was taken through Krishi Vigyan Kendra, Hiriyur as a FLD mode since last four years. Improved technological information and some of the critical inputs which are more specific to characteristics of his land & other resource was given by the KVK, Scientists.

In Horticulture component Sapota variety Cricket ball, Coconut variety Green choughat dwarf and Mango variety Alphanso was introduced and under forest component tree saplings planted all over the boarder & bunds. These forest trees are protecting main crops as a shelter belt. Apart from this, we introduced one bee hive box along with necessary training and developed programmes for skill up-gradation for successful running of enterprise.

Apiculture, today in his farm became a dominant enterprise. From a single box, he expanded enterprise to the highest level i.e., now he is looking over 80 boxes. Further ICAR-Krishi Vigyan Kendra, Hiriyur Scientists taken steps in Processing, Value Addition, Branding, FSSAI licensing and marketing linkages.

For fetching highest price in the market & to create market value to the product, value addition activities taken to honey extracted. Hence, he is able to produce honey with Mint and Clove flavors. His farm honey testes better with extended shelf life by maintaining the moisture content. To create individual identity in the market ICAR-KVK team helped him in creating a brand name as **"Bhavya Madhuvana Natures Honey"** and also assisted him to get FSSAI License.

Today in market the highest brand position paved ways to get order from surrounding districts like Tumakur, Chikkamagalur, Davanagere and Shivamogga and also from the Agriculture and allied developmental departments to run their schemes (Ex: Savayava Bhavya Scheme of Gok.)

During 2014-15 financial year he sold 450 kgs of pure, value added honey at the rate of Rs.300/- kg. Selling of bee hive box and also by participating as a resource person to apiculture enterprises training Programmes made him to earn more than 2-2.5 lakh from his enterprise.

At the outset he his getting social and economic recognition from the society more specifically, he has become inspirational icon for rural youths who are intended to stay back in agriculture and who are awaiting for transforming Apiculture as a profitable venture.



1. Integrated Farming System Demonstration Intervention of ICAR- KVK, Hiriyur: A Case Study

Gajendra T.H. Rudragouda C F. Salimath, S.B. Sudharani, N. and Onkarappa, S and Prakash Kerure

Now a days farmers treating agriculture as a business venture. Earlier it was a source of livelihood. This translated agriculture in to a mono cropping system. Mono cropping system in agriculture having its own limitations like soil degradation, exhaustive use of certain resources, market price fluctuation, vulnerability to risks and uncertainty and others .

Since, to overcome these problems IFSD was introduced by ICAR- Krishi Vigyan Kendra, Hiriyur in Mr. Dayanandmurthy farm (near challakere village). Challakere taluk is the lowest rainfall receiving taluka in the Karnataka state (i.e less than 500 mm). Where we introduced IFS Demonstration at Mr. Dayanandamurthy farm to overcome the limitations of monocropping system.

In his farm he is facing ‘n’ number of problems like gully erosion, Wild animals, Kacha Road, limited irrigation facility, sandy soil, saline soils, poor water holding capacity of soil, poor soil nutrient status, wide spread of bellary jali and others. So no farmers in this locality foot forwarded for cropping here. In this condition, no single farmer taken agriculture activity surrounding to his farm but he developed his farm like a green belts in the desert.

ICAR, Krishi Vigyan Kendra, Hiriyur introduced improved varieties of Finger Millet (ML 365) and Onion (Arka Kalyana) as a intervention to aagricultural component. Through this he was able to earn additional income of 12,384 against to tradition verities / local varieties cultivated in the previous year. In Horticulture component we introduced Sapota variety Cricket ball, Coconut variety Green choughat dwarf and vegetable seed kit (Different seeds). For enhancing milk yield Co-3 variety was introduced though that he is able to get addition 6.2 higher milk yield. Apart from this he is looking over apiculture (1 box) from that he is earning 3,600 in the previous year.

Farm waste was used for vermin-compost production, this component helped farmer in getting he 4 tons of vermin- compost and sold at Rs.6000/- each ton. In totality through IFS Intervention of KVK he earned Rs. 44,574.50/- and 1020 man days of employment generated.



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)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Pomegranate	Placing of rotten banana in the pomegranate orchard	To attract fruit fly
2	Drip irrigated crops	Placing of water bowls nearby drip/ micro irrigation pipes	To avoid damage by the squirrels and rodents.

10.F. Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women: PRA tools
- Rural Youth : PRA tools

10.G. Field activities

- i. Number of villages adopted :2
- ii. No. of farm families selected: 8
- iii. No. of survey/PRA conducted: 8

10.H. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Established

1. Year of establishment : January 2006

2. List of equipments purchased with amount :

Sl.No	Name of the Equipment	Qty.	Cost
1.	Su-Kam Fusion Series 3.5 KVA/48V 1Phase input- 1 Phase out put	1 No 1 No	28000.00
	Turbo Tubuler 12/V 150 AH, Battery	4 Nos.	44736.80 <u>6263.20</u> 51000.00
	Electrical work for the computers with Electrical material & labour charges	-	12000.00
	Installation charges & Transportation charges	-	<u>4000.00</u> 95000.00
2.	1. Godrej T-9 Table	1 No.	14026.43
	2. Geekan GB404 Executive standard Chair	1 No.	6886.02
	3. Godrej Store well model 2	1 No.	19087.87
	4. Godrej 6 th Rack with 6 panels	1 No.	6579.00
	5. Godrej 4 Drawer VFCDM Tex SL Grey	1 No.	16579.08
	6. Godrej Ezee plastic files	100 No.	<u>6973.74</u> 70132.14 <u>9818.50</u> 79950.00
3.	1. Godrej GSC-18 FV 5 HAJH 18 K Air Conditioner	1 No.	35079.23
	2. V-Guard VG-400 Stabilizer	1 No.	<u>2412.30</u> 37491.53 <u>5248.81</u> 42740.00
4.	Ragi Jardi 8 ½ No. (36x20)	1 No.	350.00
5.	Round Hole Jardi (20x36)	1 No.	350.00

Sl.No	Name of the Equipment	Qty.	Cost
6.	1. Locks small	4 Nos.	140.00
	2. Locks Big	4 Nos.	<u>380.00</u> 520.00
7.	10 kg Capacity Electronic Scale	1 Pice	3884.00 <u>194.20</u> 4078.00
8.	1. HP Pavilion Note Book DV6-7040TX	1 No.	62500.00
	2. Sony Digital Cam DAC H	1 No.	15350.88
	3. I Ball Laser Presentation Device I Ball trackball presenter	1 No.	2809.52
	4. Spear Parts Ceal Mount Kit+Cable+Fixing	1 Pices	6337.72
	5. Logitech Cordless KBD & Optical Mouse	1 No.	<u>1523.81</u> 88521.93 3341.67 <u>3036.40</u> 94900.00
9.	DS-252 Ele weighing Scale ESSAE 31 kg/1gm	1 No.	6286.00 314.30 400.00 <u>300.00</u> 7300.00
10.	Mixing Machine completely SS 202 with S/o IHP Motor M.S. Stand with 4 Nos.	1	70175.43 <u>9824.00</u> 80000.00
11.	1. Vacamy packing marching Table top mine, vacuum chamber size 365 with x 375 length x 80 mm height SS 304 with 4 gas nozzles 1 kw Electrical packing cylinder 2 to3 cyclic minute depending on produces fiber glass for top	1	54482.45
	L.G. Microwave oven connection Micro away + grid8082 30 volte capping kit free	1	15692.98 <u>9824.50</u> 80000.00

Sl.No	Name of the Equipment	Qty.	Cost
12.	Laser Guided Land Leveller sw:91328. 01261064 Rotomax Rotary Laser Transmitter CB2001, Control Box, LB2001 Laser Receiver Eye recenev automatic double acting Hydraulic value drag scrapper	1 No.	325000.00
13.	1. T D Raised bed planter	1 No.	-
	2. T D inclined plate Planter	1 No.	-
14.	National Zero til seed come fertilizer drill (11 Rows)	1 No.	47500
15.	Laser Guided Land Leveler	1 No.	325000
16.	TOROCELLTM Basic Unit (Fermentor)	1 No.	325000
17.	Packing machine (PB Scale 600 FE)	1 No.	16490
18.	Digital pH meter	1 No.	12366

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	9068	7780	4812	272040
Water Samples	8181	7275	4583	490860
Total	17249	15055	9395	762900

Details of samples analyzed during the 2014-15 :

Details	No. of Samples analyzed	No. of Farmers benefited	No. of Villages	Amount realized (Rs.)
Soil Samples	1516	1184	750	45480
Water Samples	1460	1182	785	87600
Total	2976	2366	1535	133080

10.I. Technology Week celebration during 2014-15 Yes/No, If Yes

Period of observing Technology Week: From 7-10-2014 to 12-10-2014.

Total number of farmers visited : 100

Total number of agencies involved : 4

Number of demonstrations visited by the farmers within KVK campus : 5

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	2	100	Improved crop production Technology
Lectures organized	11	100	<ul style="list-style-type: none"> • Organic Farming Practices • ICM and Farm Mechanization • Precession Farming in Onion and Seed Production in Onion • Improved Technologies in Agriculture • Bivoltaine Silkworm raring • Multi storied cropping system in Horticulture Crop • Drip Irrigation and Fertigation • Farm Mechanization • Coconut Plam Climbing • Post Harvesting Technology and Value Addition • Ecological Approaches in Agriculture and Horticulture in Crops
Exhibition	1	100	
Film show	4		
Fair	1	100	
Farm Visit	2	100	
Supply of Literature (No.)	3	100	
Supply of Seed (q)	-	-	
Supply of Planting materials (No.)	-	-	
Bio Product supply (Kg)	20	5	
Total number of farmers visited the technology week		600	

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).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Apiculture for livelihood security	25	1	225000	4,5000
Integrated farming system demonstration	25	5	82550	106400
Participatory onion seed production	8	100	1,20,000	2,050,00

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

11.B. Cases of large scale adoption

Case study: Production of *Pseudomonas fluorescens*

Pomegranate is one the important fruits crops of Chitradurga district which is being cultivated in an area of 6911 ha, with a production of 62199 metric tons. The area is continuously increasing because of higher returns, when compared to other crops. However, farmers lack knowledge on management of diseases. The major disease which causes reduction in the yield is bacterial blight caused by *Xanthomonas compestris* pv. *punicae*. Krishi Vigyana Kendra, Babbur farm, Hiriyur, made problem analysis and planned to introduce *Pseudomonas fluorescens* a bio agent which controls bacterial blight disease. These productions of was started in KVK Hiriyur during 2010-11. Around 24 kg pseudomonas was produced during 2010-11. The results were quite satisfactory and the demand for the product started increasing and hence production during 2011-12 was 165 kg. During 2014-15 *Pseudomonas fluorescens* powder (3086.5kg) was produced to meet the demand. Thus farmers are satisfied with the quality of the product being produced at KVK Hiriyur.



Technology spread of Onion Seed Production in Chitradurga district

Onion is one of the major crops of Chitradurga district grown in an area of 20,000 ha. Farmers depend upon private companies for seed. In order to ensure quality seed in district, KVK, Chitradurga took up demonstration of seed production with few farmers of Chitradurga district. The Seed production technology was very much accepted and it motivated them to scale up. Around 24 q Arka Kalyan seed was produce during 2014-15. This will help to cover an area of 600 acres. This has motivated other farmers in the district to take up seed production activity and become self sufficient. Farmers are linked to IIHR, Bangalore .

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

1.Perspectives of Farmers on Impact of Coconut Palm Climbing and Plant protection Training

Gejendra .T.H., Salimath,S. B., Chandrappa, D., Prakash Kerure., Rudragouda .F. C., Onkarappa. S. and Sudharani, N.

Present study was conducted in Chitradurga, Hiriyr, Hosdurga and Holalkere taluks of Chitradurga district in 2014 -15, which represents major coconut growing area and maximum number of trainees of the training programme, with the sample of 120 trainees. Purposive sampling method was administered while identifying sample size. More than three fourth of the respondents actively using the coconut climbing machine and significant number of respondents adopted technological information which were given in due course of training. A positive and significant relationship was observed between knowledge with respect to education, mass media participation, extension participation and entrepreneurship behavior. The study also revealed that majority (91.67%) of respondents opined- there was significant increase in productivity, timely harvesting of nuts and crown cleaning (95.83%) and reduction in the drudgery of application of plant protection chemicals by using machine(92.83%). Majority (56.67%) of respondents have earned Rs. 25,000-35,000 per month. In case of mobility, fifty three percent of the respondents having mobility range of 50-100 km/day. Through exclusive income of coconut climbing machine more than twenty percent of the respondents purchased new motor cycle and this there standard of living is improved. Respondents expressed problems of machine transportation, interrupted harvesting, remoteness of orchards and machine rope life. In case of duration of training programme, majority (76.67%) of the respondents expressed as '*Six day is too long*'.

Key words: Coconut Climbing Machine, Knowledge, Impact, Mobility



3. Pigeon pea, BRG-2 varietal intervention for Dry Lands of Chitradurga district

Onkarappa, S., Chandrappa, D., Shabsikumar, C., Sarvajna B. Salimath, and T.H. Gajendra

Pigeonpea is the most important pulse crop in Chitradurga district. Farmers were using local varieties and the yields were quite low and susceptible to diseases like wilt and pigeonpea sterility mosaic disease. They were not aware of high yielding variety and integrated crop management practices. Pigeonpea variety BRG-2 was introduced in the district during the year 2006-07 through front line demonstration in 6 hectares of area. Today, it has been spread to the area of about 8000 hectares in Chitradurga district. The integrated crop management demonstration was taken up in an area of 6 hectares during 2013-14 and 2014-15 at Junjaragunte and Thimmanahalli respectively in Challakere taluk. The integrated crop management included i) Seed treatment with Trichoderma, Rhizobium and Phosphorus solubilising Bacteria ii) Dibbling of seeds at 3 feet from plant to plant and 6 feet from row to row iii) Nipping of shoot at 50 days after sowing iv) Installation of pheromone traps at rate of 5 per hectare v) Spraying of HaNPV (1×10^9)

POB per ml) vi) Spraying of insecticide Indoxacarb 14.5 SC at 1ml/lt. The average number of good pods per plant in demonstrated plot was 627 over check plot of 550 pods per plant. The number of pods damaged by the pod borer in demonstrated plot was less compared to check plot. The pod damage in demonstrated plot was 6.89 percent compared to 11.29 percent in check plot. The average yield of 17.9 quintals per hectare was recorded in demonstrated plot and 14.02 quintals per hectare was recorded in check plot. There was 27.7 percent increase in yield over check plot. Today the variety has spread to entire district through trainings of farmers and extension functionaries.

Key words: Pigeonpea, BRG-2, ICM, Dibbling, Nipping, HaNPV, Insecticides



PART XII - LINKAGES

12.A. Functional linkage with different organizations

Name of organization	Nature of linkage
Department of Agriculture, Chitradurga	Conduct of collaborative extension programmes like field day, interaction meets, trainings, joint diagnostic surveys, pest surveillance, etc
Department of Horticulture, Chitradurga	Conduct of collaborative extension programmes, interaction meets, trainings, joint diagnostic surveys, production of vegetable seeds, etc.
AIR Chitradurga	Technology dissemination
CDB	Training
RDPR	Trainig
ATMA DoA Chitradurga	Assessment of onion and groundnut varieties.

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.)
ATMA	Research	20-01-2014	Govt. of Karnataka	100000

12.C. Details of linkage with ATMA

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

Assessment of varieties

Coordination activities between KVK and ATMA during 2014-15

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	Other remarks (if any)
01	Meetings	-	-	-	-
02	Research projects	Assessment of onion and groundnut varieties.	6	-	-
03	Training programmes			2	-
04	Demonstrations	Assessment of onion and groundnut varieties.	-	6 demos	-
05	Extension Programmes	-	-	-	
	Others (Pl. specify)	-	-	-	2 Field Day
06	Publications	-	-	-	-
	Extension Literature	-	-	-	-
	Pamphlets	ICM in Groundnut & Onion	-	-	-
	Others (Pl. specify)	-	-	-	-

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

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
1	Production of bio inputs	Primary culture: UAS Raichuar	-	-	Remarks: Revolving fund utilised for the production of bio inputs
2	Disease Forecast	IMD Pune for weather forecast	Contractual services(RA): 126960	Rs. 94590/- Balance=Rs. 32441	-
3	Field visits	Pest and disease Surveyaance with DoA	-	-	-
4	Trainings	Resource persons in Dept. Trainings and seminars	-	-	

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 2014	1	670	2
May	2	25	-
June	1	2	-
July	2	30	-
August	12	72	4
September	7	77	-
October	11	390	-
November	15	50	-
December	10	79	-
January 2015	10	740	12
February	5	1455	6
March 2015	16	1455	13
Total for the year 2014-15	92	5045	37

PART XIII- PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Breed	Produce	Qty.	Cost of inputs	Gross income	
1	Piggery	2014	-	Pink York shire	-	4	68240	60000	Piglets under multiplication process

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 (Foxtail millet)	12-8-2014	15-11-2014	1	HMT 100-1	Commercial seed	5	3250	8250.0	
Pulses (Chickpea)	17-10-2014	20-1-2015	3.2	JG 11	Certified seeds	17	36,890	1,10,000	

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Trichoderma	205.5	14385	16440	
2	Pseudomonas (Powder)	3086.5	200622.5	277785	

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	Piggery	Pink York shire	-	4	68240	60000	Piglets under multiplication process

13.E. Utilization of hostel facilities:

Accommodation available (No. of beds): 25 beds

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014	1	3	
May 2014	40	6	
June 2014	-		
July 2014	-		
August 2014	-		
September 2014	-		
October 2014	-		
November 2014	-		
December 2014	-		
January 2015	-		
February 2015	46	1	
March 2015	44	1	
TOTAL	131	11	

13.F. Database management

S. No	Database target	Database created
1	Farmers database	Created
2	SMS farmers database	Created
3	Soil and water testing	Created
4	Crop wise farmers	Created
5	Soil water analysis data	Created

13.G. Details on Rain Water Harvesting Structure and micro-irrigation system: Nil**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	Canara Bank , Shivamogga	UAHS, Shivamogga	-	-	-	-	-
With KVK	Canara Bank ,Hiriyur	Hiriyur	0867	SB	0867101024602	572015302	CNRB0000867

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	6700000		7426349
2	Traveling allowances	62000		140249
3	Contingencies			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	35000	8591533	274748
B	POL, repair of vehicles, tractor and equipments	40000		199976
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	20000		47348
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	20000		34801
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	200000		218957
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	35000		19737
G	Training of extension functionaries	10000		11347
H	Maintenance of buildings	10000		49532
I	Extension Activities	10000		48600
J	Library	0		4923
k	FFS	10000		21726
l	IFS	10000		17586
TOTAL (A)		7162000	8591533	8515879
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)		7162000	8591533	8515879

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 2012 to March 2013	4.16	5.43	4.33	7.15
April 2013 to March 2014	7.15	12.11	8.15	11.11
April 2014 to March 2015	11.11	6.52	5.51	12.12

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
Dr.S.Onkarappa	SMS (Plant protection)	Orientation training on IPM	NBAII, Hebbal, Bangalore	23-7-2014 to 26-7-2014
Mrs. Sudharani N.	SMS (H.Sc.)	Production and processing technologies of Jack fruit	GKVK,Bangalore	21-04-2014 to 22-04-2014
Mrs. Sudharani N.	SMS (H.Sc.)	International Symposium on Jackfruit and Bread Fruit	GKVK,Bangalore	15-05-2014 to 16-5-2014
Dr. Salimth	SMS (Soil Science)	PGDAEM	MANAGE, Hydrabad	2014-15
Ms. Sudharani N.	SMS (H.Sc.)	Frontier Home science technoliges for Knowledge & Economic Empowering	UAS, Dharwad	28-10-2014 to 30 -10- 2014
Miss. Kavitha P. Naik	Programme Asst (Comp)	Data Base Management	KVK, Suttur, Mysore	16-12-2014 & 17-12-2014
Mr. Prakash Kerure	SMS (Hort.)	External funded project preparation	UAHS , Shivamogga	17-01-2014 to 18-01-2014
Dr. Onkarappa	SMS (Plant protection)	External funded project preparation	UAHS , Shivamogga	17-01-2014 to 18-01-2014
Mrs. Sudharani	SMS (H.Sc.)	External funded project preparation	UAHS , Shivamogga	17-01-2014 to 18-01-2014
Mr. Prakash Kerure	SMS (Hort.)	National Biodiversity Act 2002	UAHS , Shivamogga	21-01-2015
Dr. Rudargouda F.	SMS(Agronomy)	Large scale demonstration in field crops	DE Office , GKVK , Bangalore	19-06-2014
Dr. Rudargouda F.	SMS(Agronomy)	National resource conservation technologies for sustainable yield	TNAU, Coimbatore	28-01-201 to 17-02-2015

SUMMARY FOR 2013-14

I. TECHNOLOGY ASSESSMENT

II. Summary of technologies assessed under various crops

Thematic areas	Crop	Name of the technology assessed	No. of trials
Nutrient Management	Banana	Assessment of Nutrient Management through Fertigation in Banana	2
Varietal Evaluation	Onion	Varietal assessment in onion for higher yield	2
	Field bean	Varietal assessment in field bean for higher yield	1
	Groundnut	Assessment of groundnut varieties for Chitradurga	01

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 Farmers	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	Hybrid Introduction	Integrated crop management in Maize		10	5	84.8	69.1	22.7	-	-	44456	110266	65810	2.48	44070	89936	45866	2.04
Millets	Introduction of new variety	Introduction ML-365 Finger millet variety for higher yield		10	5	28.5	23.6	20.7	-	-	20007	57000	36993	2.85	19226	47200	27974	2.46
Finger millet	Value Addition	Value addition. Branding, Labeling Licensing Market linkage	1	1 SHG	(15 farm women)	-	-	--	-	-	4450	14000	9550	3.14	950	2000	1050	2.10
Oilseeds	Crop Management	ICM in Groundnut		2	2.5	13.95	9.50	46	-	-	55820	22500	33320	2.48	38000	20000	18000	1.90
Pulses	IPDM	IPM in green gram for Yellow Mosaic disease.		15	6	4.26	3.42	24.6	9.61(% disease incidence)	28.80	9300	19596	10296	2.11	8600	15732	7332	1.82
	ICM	IPM in redgram		15	6	17.6	14.1	24.55	7.46(% disease incidence)	11.84	13250	66880	53630	5.04	12300	53694	41394	4.36
	ICM	IPM in Bengalgram		15	6	13.42	10.48	28.05	3.12(% disease incidence)	6.42	13200	50996	37796	3.86	12400	39824	27424	3.21
Vegetables	Crop Management	ICM in Onion		5	2.5	21.0	15.0	45.80	-	-	168500	50500	118000	3.34	120000	57000	63000	2.11
	Nutrient management	ICM in watermelon		12	5	48.6 (t/ha)	43.3 (t/ha)	11.9	-	-	75350	243000	167650	2.22	74350	216500	142150	1.91
	Crop improvement	Demonstration of Field Bean Variety Hebbal Avare-4 for higher yield		12	5	7.5 t/ha	5.4 t/ha	38.8	-	-	40550	150000	109450	2.69	35600	108000	72400	2.03
Flowers	IPDM	Use of Fungicide – Chlorothalonil - 2g/l		5	2	8.71	6.82	27.55	9.84(% disease incidence)	38.2	68200	200500	132300	2.94	66700	133100	66400	1.98
	Nutrient management	ICM in Chrysanthemum		5	2.5	8.2 t/ha	6.7 t/ha	22.38	-	-	55000	205000	150000	2.72	47500	1670000	119500	2.51
Fruit	IPDM	Integrated management of bacterial blight in pomegranate		5	2	10.7	7.67	39.60	12.24(% disease incidence)	41.62	142000	582000	440000	4.10	106000	255000	149000	2.41

	Nutrient Management	Integrated Nutrient Management in Banana		5	2.5	21	14	50	-	-	543788	72500	471288	7.50	349031	73000	276031	4.78
Entrepreneurship	Value addition	Value addition in tamarind FSSAI Licensing and Branding Packing and Labeling Market linkage		1 SHG	-	-	-	-	-	-	4000	9000	5000	2.25	2000	3000	1000	1.5
	Small scale Income generating enterprises	Skill oriented training on Hygienic Honey production 2. Branding and licensing 3. Packing & Nutritional labeling 4. Market intelligence and linkage		1	1 Honey growers Association (13 farmers)	-	-	-	-	-	17175	32000	14825	1.86	16000	20000	4000	1.25
Commercial	Sericulture	Introduction of Double Cross Hybrid Silkworm		11	10	72kg/100 DFLS	62kg/100 DFLS	24.2	-	-	10680	38500	27820	3.6	9950	31000	21050	3.1
Fodder	Balanced nutrition Good quality fodder	Technology demonstration module in fodder crops		5	2.5	-	-	6 per cent increasing in milk yield -	--	--	-	-	-	-	-	-	-	-
Agri-Silvi-Horti-Pastoral	Integrated farming system	Component integration Introduction of improved varieties of Finger millet, onion & fodder varieties		05	8	-	-	-	-	-	45600	152000	106400	3.40	36528	82550	46018	2.25

* 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

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
Commercial crops	Double Hybrid (CSR-6XCSR26) (X)CSR-2XCSR-27)-	11	10	72kg/100 DFSL	62kg/100 DFSL	24.2	10680	38500	27820	3.6

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										
Cropping Systems	2	47	4	51	5	1	6	52	5	57
Horticulture										
a) Vegetable Crops										
Production of low value and high volume crop	1	15	0	15	3	0	3	18	0	18
Nursery raising	1	19	0	19	5	0	5	24	0	24
Soil Health and Fertility Management										
Integrated nutrient management	1	19	2	21	0	0	0	19	2	21
Nutrient use efficiency	1	20	0	20	2	0	2	22	0	22
Livestock Production and Management										
Dairy Management	1	22	0	22	4	0	4	25	0	25
Home Science/Women empowerment										
Value addition	1	18	30	48	0	0	0	18	30	48
Women empowerment	1	29	2	31	9	1	10	38	3	41
Women and child care	2	0	14	14	0	18	18	0	32	32
Plant Protection										
Integrated Pest Management	1	41	0	41	0	0	0	41	0	41
Integrated Disease Management	1	11	0	11	14	0	14	25	0	25
Bio-control of pests and diseases	1	10	7	17	0	0	0	17	0	17
Capacity Building and Group Dynamics										
Entrepreneurial development of farmers/youths	5	67	0	67	33	0	33	100	0	100
Nursery management	1	15	0	15	13	0	13	28	0	28
Market intelligence	1	8	7	15	8	1	9	16	8	24
TOTAL	21	341	66	407	96	21	117	443	80	523

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										
Cropping Systems	5	162	17	179	68	1	69	230	18	248
Horticulture										
b) Fruits										
Cultivation of Fruit	1	35	0	35	10	0	10	45	0	45
d) Plantation crops										
Production and Management technology	1	15	0	15	0	0	0	15	0	15
Soil Health and Fertility Management										
Soil fertility management	1	17	0	17	0	0	0	17	0	17
Integrated water management										
Integrated nutrient management	1	63	0	63	0	0	0	63	0	63
Production and use of organic inputs										
Management of Problematic soils	1	18	2	20	0	0	0	18	2	20
Home Science/Women empowerment										
Processing	2	36	19	55	5	3	8	41	22	63
Gender mainstreaming through SHGs	2	4	38	42	0	0	0	4	38	42
Storage loss minimization techniques										
Value addition	1	0	26	26	0	6	6	0	32	32
Women empowerment	1	0	69	69	0	17	17	0	86	86
Agril. Engineering										
Farm machinery and its maintenance	1	51	0	51	0	0	0	51	0	51
Plant Protection										
Integrated Pest Management	1	93	16	109	0	0	0	93	16	109
Production of Inputs at site										
Mushroom production	1	27	0	27	0	0	0	27	0	27
Apiculture	1	34	0	34	1	0	1	35	0	35
TOTAL	20	555	187	742	84	27	111	639	214	853

Training for Rural Youths 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
Nursery Management of Horticulture crops	1	15	0	15	13	0	13	28	0	28
Entrepreneurship through Farm Mechanization	5	67	0	67	33	0	33	100	0	100
TOTAL	6	82	0	82	46	0	46	128	0	128

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	1	35	2	37	0	0	0	35	2	37
Integrated Pest Management	1	25	8	33	0	0	0	25	8	33
Women and Child care	1	0	14	14	0	18	18	0	32	32
Total	3	60	24	84	0	18	18	60	42	102

Training programmes for Extension Personnel 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
Integrated Nutrient management	1	19	10	29	0	0	0	19	10	29
Integrated diseases Management	1	34	8	42	0	0	0	34	8	42
Protected cultivation technology										
Capacity building for ICT application	1	35	13	48	0	0	0	35	13	48
Total	3	88	31	119	0	0	0	88	31	119

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
12	Agricultural Extension										
12.b.	Others (pl.specify)										
	Entrepreneurial development of farmers/youths	5	67	0	67	33	0	33	100	0	100
	Nursery management	1	15	0	15	13	0	13	28	0	28
	Total	6	82	0	82	46	0	46	128	0	128

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
5	Agricultural Extension										
5.b.	Others (pl.specify)										
	Entrepreneurial development of farmers/youths	5	67	0	67	33	0	33	100	0	100
	Nursery management	1	15	0	15	13	0	13	28	0	28
	Grand Total	6	82	0	82	46	0	46	128	0	128

V. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	1477	1507	300	1807
Diagnostic visits	6	92	20	112
Field Day	9	887	37	924
Group discussions	25	300	120	420
Kisan Ghosthi	0	0	0	0
Film Show	10	254	40	294
Self -help groups	14	337	17	354
Kisan Mela	1	1800	46	1846
Exhibition	6	8500	105	8605
Scientists' visit to farmers field	324	624	60	684
Plant/animal health camps	1	69	4	73
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	5	211	8	219
Method Demonstrations	17	327	17	344
Celebration of important days	9	1348	26	1374
Exposure visits	5	120	2	122
Total	1909	16376	802	17178

Details of other extension programmes

Particulars	Number
Electronic Media	0
Extension Literature	34
News Letter	1
News paper coverage	44
Technical Reports	8
Radio Talks	7
TV Talks	0
Animal health camps (Number of animals treated)	320
Total	414

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	Foxtail Millet	HMT 100-1	5	6500	On Farm
Pulses	Bengalgram	JG-11	17	110000	On Farm
Vegetables	Onion	Arka kalyan	25	Farmers Participation	8
Total			47	116500	-

Production of planting materials by the KVKs: Nil

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
		Kg		
Bio Agents	Trichoderma	205.5	16440	27
	Pseudomonas (Powder)	3086.5	335296	224
Others	-	-	-	-
Total		3292	351736	251

Production of livestock and related enterprise materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Piggery				
Pigglet	Pink York Shier	4		-
Total		4		

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

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	1516	1184	750	45480
Water	1460	1182	785	87600
Others (pl. specify)	-	-	-	-
Total	2976	2366	1535	133080

VIII. SCIENTIFIC ADVISORY COMMITTEE

Number of SACs conducted

One SAC meeting was conducted on 11-08-2014

IX. NEWSLETTER

Number of issues of newsletter published

April to June, 2014 issue published

X. RESEARCH PAPER PUBLISHED

Number of research paper published

16 No's

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

Activities conducted

No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
-	-	-	-	-

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